Civil Engineering and Development Department

Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

Monthly Environmental Monitoring and Audit Report for April 2025

(Version 1.2)

Certified By

Dr. Priscilla Choy
(Environmental Team Leader)

REMARKS:

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

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

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Agreement No. CE 33/2019 (EP)
Independent Environmental Checker for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas – Investigation

Monthly Environmental Monitoring and Audit Report No. 66 (April 2025)

20 May 2025

BY EMAIL

Dear Sir,

We refer to email of 19 May 2025 attaching the Monthly Environmental Monitoring and Audit Report No. 66 prepared by the Environmental Team (ET) of the captioned.

We would like to inform you that we have no adverse comment on the captioned submission. Therefore, we write to verify the captioned submission in accordance with the Condition 3.4 of the Environmental Permit no. EP-466/2013/A, EP-467/2013/A, EP-468/2013/A, EP-469/2013, EP-470/2013A, EP-473/2013/A, EP-475/2013/A and EP-546/2017.

Should you have any queries, please contact the undersigned.

Yours faithfully,
For and on behalf of the
Mott MacDonald Hong Kong Limited

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EXECUTIVE SUMMARY

Introduction

1. This is the 66th monthly Environmental Monitoring and Audit (EM&A) Report for the First Phase Development of Kwu Tung North (KTN) and Fanling North (FLN) New Development Areas (NDAs), comprising the Advance Works and First Stage Works (hereinafter called the "the Project"). This report is prepared by Wellab Limited under "Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of KTN and FLN NDAs" (hereinafter called the "Service Contract"). This report documents the findings of EM&A works conducted in April 2025.

2. During the reporting month, the following Works Contracts under relevant Environmental Permit(s) were undertaken for the Project:

Table I Works Contracts under relevant Environmental Permit(s) in the Reporting Month

Works Contracts	Environmental Permit No.	Designated Project (DP)	Commencement date of construction
Contract No. ND/2019/01 – Kwu Tung North New Development Area, Phase 1: Site Formation and Infrastructure Works	EP-466/2013/A	Castle Peak Road Diversion	12 August 2020
	EP-467/2013/A	Kwu Tung North New Development Area Road P1 and P2 and Associated New Kwu Tung Interchange and Pak Shek Au Interchange Improvement	12 August 2020
	EP-468/2013/A	Kwu Tung North New Development Area Road D1 to D5	1 June 2020
	EP-470/2013/A	Utilization of Treated Sewage Effluent (TSE) from Shek Wu Hui Sewage Treatment Works	23 March 2020
Contract No. ND/2019/02 – Kwu Tung North New Development Area, Phase 1: Roads and Drains between Kwu Tung North New Development Area and Shek Wu Hui	EP-469/2013	Sewage Pumping Stations in Kwu Tung North New Development Area	28 October 2020
Contract No. ND/2019/03 – Kwu Tung North and Fanling North New Development Areas, Phase 1: Development of Long Valley Nature Park	EP-468/2013/A	Kwu Tung North New Development Area Road D1 to D5	3 July 2020
	EP-473/2013/A	Fanling Bypass Eastern Section (New Road)	6 October 2020
Contract No. ND/2019/04 – Fanling North New Development Area,	EP-473/2013/A	Fanling Bypass Eastern Section (New Road)	23 February 2021

Works Contracts	Environmental Permit No.	Designated Project (DP)	Commencement date of construction
Phase 1: Fanling Bypass Eastern Section (Shek Wu San Tsuen North to Lung Yeuk Tau)	EP-546/2017	Fanling North Temporary Sewage Pumping Station	16 February 2021
Contract No. ND/2019/05 – Fanling North New Development Area, Phase 1: Fanling Bypass Eastern Section (Shung Him Tong to Kau Lung Hang)	EP-473/2013/A	Fanling Bypass Eastern Section (New Road)	1 August 2020
Contract No. ND/2019/06 – Fanling North New Development Area, Phase 1: Re-provisioning of North District Temporary Wholesale Market for Agricultural Products	EP-475/2013/A	Reprovision of temporary Wholesale Market in Fanling North New Development Area	29 October 2019
Contract No. ND/2019/07 – Fanling North New Development Area, Phase 1: Site Formation and Infrastructure Works	Works area not under relevant Environmental Permit for Phase 1 of the Project.		1 March 2021

Environmental Monitoring and Audit Progress

3. A summary of the EM&A activities in this reporting month is listed in **Table II** below:

Table II Summary Table for EM&A Activities in the Reporting Month

<table>
<tr><th rowspan="2">EM&A Activities</th><th rowspan="2">Monitoring Station (s)</th><th colspan="7">Works Contracts</th></tr>
<tr><th>ND/2019/01</th><th>ND/2019/02</th><th>ND/2019/03</th><th>ND/2019/04</th><th>ND/2019/05</th><th>ND/2019/06</th><th>ND/2019/07</th></tr>
<tr><td rowspan="4">1-hr Total Suspended Particulates (TSP) Monitoring</td><td>FLN-DMS1</td><td rowspan="3">N/A</td><td rowspan="4">N/A</td><td>3, 8, 14, 17, 23 and 29 Apr 25</td><td>3, 8, 14, 17, 23 and 29 Apr 25</td><td>N/A</td><td rowspan="4">N/A</td><td rowspan="4">N/A</td></tr>
<tr><td>FLN-DMS3</td><td>N/A</td><td>N/A</td><td>3, 8, 14, 17, 23 and 29 Apr 25</td></tr>
<tr><td>FLN-DMS5</td><td>2, 7, 11, 16, 22 and 28 Apr 25</td><td>2, 7, 11, 16, 22 and 28 Apr 25</td><td rowspan="2">N/A</td></tr>
<tr><td>KTN-DMS4(B)</td><td>2, 7, 11, 16, 22 and 28 Apr 25</td><td>2, 7, 11, 16, 22 and 28 Apr 25</td><td>N/A</td></tr>
<tr><td rowspan="4">24-hr TSP Monitoring</td><td>FLN-DMS1</td><td rowspan="3">N/A</td><td rowspan="4">N/A</td><td>2, 7, 11, 16, 22 and 28 Apr 25</td><td>2, 7, 11, 16, 22 and 28 Apr 25</td><td>N/A</td><td rowspan="4">N/A</td><td rowspan="4">N/A</td></tr>
<tr><td>FLN-DMS3</td><td>N/A</td><td>N/A</td><td>2, 7, 11, 16, 22 and 28 Apr 25</td></tr>
<tr><td>FLN-DMS5A</td><td>2, 7, 11, 16, 22 and 28 Apr 25</td><td>2, 7, 11, 16, 22 and 28 Apr 25</td><td rowspan="2">N/A</td></tr>
<tr><td>KTN-DMS4(B)</td><td>2, 7, 11, 16, 22 and 28 Apr 25</td><td>2, 7, 11, 16, 22 and 28 Apr 25</td><td>N/A</td></tr>
<tr><td rowspan="6">Noise Monitoring</td><td>CP-FLN-NMS1</td><td colspan="3">N/A</td><td colspan="3">8, 14, 23 and 29 Apr 25</td><td rowspan="6">N/A</td></tr>
<tr><td>CP-FLN-NMS2</td><td colspan="4">N/A</td><td>8, 14, 23 and 29 Apr 25</td><td>N/A</td></tr>
<tr><td>CP-KTN-NMS2</td><td rowspan="3">2, 7, 16, 22 and 28 Apr 25</td><td rowspan="3">N/A</td><td colspan="4" rowspan="4">N/A</td></tr>
<tr><td>CP-KTN-NMS3</td></tr>
<tr><td>CP-KTN-NMS5</td></tr>
<tr><td>CP-KTN-NMS6</td><td>N/A</td><td>2, 7, 16, 22 and 28 Apr 25</td></tr>
<tr><td rowspan="2">Ecological Survey</td><td>Monitoring of Measures to Minimise Disturbance to Water Birds on Ng Tung River, Sheung Yue River, and Long Valley</td><td>N/A</td><td>N/A</td><td>1, 3, 8, 10, 14, 15, 23, 24, 28 and 29 Apr 25</td><td>3, 10, 14, 23 and 28 Apr 25</td><td>N/A</td><td>N/A</td><td>N/A</td></tr>
<tr><td>Monitoring of Measures to Minimise Impacts to Ma Tso Lung Stream and Siu Hang San Tsuen Stream</td><td>25 Apr 25</td><td>N/A*</td><td>25 Apr 25</td><td>25 Apr 25</td><td>N/A*</td><td>N/A*</td><td>N/A*</td></tr>
</table>

EM&A Activities	Monitoring Station (s)	Works Contracts						
		ND/2019/01	ND/2019/02	ND/2019/03	ND/2019/04	ND/2019/05	ND/2019/06	ND/2019/07
	Monitoring of Measures to Minimise Impacts on Ecological Sensitive Habitats from Disturbance and Pollution	7 and 30 Apr 25	7 and 30 Apr 25	30 Apr 25	30 Apr 25	30 Apr 25	N/A*	N/A*
Egretry Monitoring		N/A	N/A	N/A	N/A	N/A	N/A	N/A
24-hr RSP (Ambient Arsenic) Monitoring for Land Contamination		2, 7, 11, 16, 22 and 28 Apr 25	N/A	2, 7, 11, 16, 22 and 28 Apr 25	N/A	N/A	N/A	N/A
Water Quality Monitoring		N/A	2, 5, 7, 9, 11, 14, 16, 18, 22, 24, 26, 28 and 30 Apr 25	N/A	2, 5, 7, 9, 11, 14, 16, 18, 22, 24, 26, 28 and 30 Apr 25	N/A	N/A	N/A
Landfill Gas Monitoring		15 Apr 25	N/A	N/A	N/A	N/A	N/A	N/A
Built Heritage Monitoring		N/A	N/A	N/A	N/A	N/A	N/A	N/A
Environmental Site Inspection		1, 8, 14, 22 and 29 Apr 25	2, 9, 16, 22 and 29 Apr 25	N/A	3, 9, 14, 24 and 29 Apr 25	7, 17, 23 and 28 Apr 25	NIL	7, 17, 23 and 29 Apr 25

Remarks:

N/A – No relevant monitoring is required according to the updated EM&A Manual

N/A* – No relevant monitoring is required according to the Baseline Ecological Monitoring Plan (Table 3.1)

[1] Since the distance between monitoring station CP-KTN-NMS2 and site boundary of ND/2019/03 under EP-468/2013/A exceeds 300m, the monitoring station is not applicable to ND/2019/03

[2] Since the distance between monitoring station CP-KTN-NMS3 and site boundary of ND/2019/03 under EP-468/2013/A exceeds 300m, the monitoring station is not applicable to ND/2019/03

[3] Since the distance between monitoring station CP-KTN-NMS1 and site boundary of ND/2019/02 under EP-469/2013 exceeds 300m, the monitoring station is not applicable to ND/2019/02

[4] Since the distance between monitoring station FLN-DMS1 and site boundary of ND/2019/05 under EP-473/2013/A exceeds500m, the monitoring station is not applicable to ND/2019/05

[5] Since the distance between monitoring station FLN-DMS3 and site boundary of ND/2019/03 and ND/2019/04 under EP-473/2013/A exceeds 500m, the monitoring station is not applicable to ND/2019/03 and ND/2019/04

[6] Since the distance between monitoring station FLN-DMS5 and site boundary of ND/2019/05 under EP-473/2013/A exceeds 500m, the monitoring station is not applicable to ND/2019/05

[7] Since the distance between monitoring station CP-FLN-NMS2 and site boundary of ND/2019/03 and ND/2019/04 under EP-473/2013/A exceeds 300m, the monitoring station is not applicable to ND/2019/03 and ND/2019/04

[8] Since the distance between monitoring station CP-FLN-NMS1 and site boundary of ND/2019/03 under EP-473/2013/A exceeds 300m, the monitoring station is not applicable to ND/2019/03

Breaches of Action and Limit Levels

4. Summary of the environmental exceedances of the reporting month is tabulated in **Table III**.

Table III Summary Table for Events Recorded in the Reporting Month

Environmental Monitoring	Parameter	No. of non-project related Exceedances		Total No. of non-project related Exceedances	No. of Exceedance related to the Construction Works of the Contract		Total No. of Exceedance related to the Construction Works of the Contract
		Action Level	Limit Level		Action Level	Limit Level	
Air Quality	1-hr TSP	0	0	0	0	0	0
	24-hr TSP	0	0	0	0	0	0
	24-hr RSP (Ambient Arsenic)	0	0	0	0	0	0
Noise	$L_{eq(30min)}$	0	0	0	0	0	0
Water Quality	DO	0	6	6	0	0	0
	Turbidity	0	3	3	0	0	0
	SS	0	0	0	0	0	0
	Arsenic	0	0	0	0	0	0
Landfill Gas	O_2	0	0	0	0	0	0
	CH_4						
	CO_2						
Cultural heritage	Built Heritage Monitoring	0	0	0	0	0	0
Ecological Monitoring	Avifauna	0	0	0	0	0	0
	Aquatic fauna	0	2	2	0	0	0
	Non-aquatic fauna	0	0	0	0	0	0

Air Quality

5. All construction air quality monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

Construction Noise

6. All construction noise monitoring was conducted as scheduled in the reporting month. No Action/ Limit Level exceedance was recorded.

Water Quality

7. All additional water quality monitoring was conducted as scheduled in the reporting month. Six (6) Limit Level for DO, three (3) Limit Level for turbidity of impact water quality monitoring were recorded. No construction of channel for alternation of natural streams was carried out in the reporting month. Therefore, no water quality monitoring was conducted according to the Updated EM&A Manual and Baseline Water Quality Monitoring Report (KTN & FLN NDA). Relevant details are given in Section 5.

Land Contamination

8. All ambient arsenic monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

Landfill Gas Monitoring

9. Monitoring of landfill gas in the reporting month was carried out by the Contractor under ND/2019/01 at excavation location Portion 6b. No Limit Level exceedance was recorded.

Built Heritage Monitoring

10. No Built heritage monitoring was carried out in the reporting month due to no works causing for surveyed cultural heritage at all. No Limit Level exceedance was recorded.

Ecological Monitoring

11. All ecological monitoring was conducted as scheduled in the reporting month. Two (2) limit level exceedance for aquatic fauna were recorded. The exceedances were considered non-project related as supported by environmental monitoring data. No evidence to suggest that the exceedance was related to project activities. The ecological monitoring result in the Reporting Month is shown in **Appendix L**.

Complaint Log

12. No environmental complaint was received in the reporting month.

Notification of Summons and Successful Prosecutions

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

Reporting Changes

14. This report has been prepared in compliance with the reporting requirements for the subsequent monthly EM&A Report as required by the "Updated Environmental Monitoring and Audit Manual for Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas" (Updated EM&A Manual).

Future Key Issues

15. The major site activities for the coming three months are shown in **Table IV.**

Table IV Summary Table for Site Activities in the coming Three Months

Contract No.	Site Activities (May to July 2025)
ND/2019/01	(a) Drainage works, watermain works, sheet piling, site formation and slope works in Portion 1a (b) Watermain works in Portion 1b (c) Site formation, drainage works, watermain works, construction of noise barrier, road lighting works, ELS construction, sewage works, backfilling and road works in Portion 1c (d) Site formation, construction of subway, road works, drainage works, slope works and soil nail in Portion 2 (e) HAC soil treatment, site formation, excavation, road works, slope work, drainage works, watermain works and soil nail in Portion 3 (f) Site formation, sewage works, excavation, backfilling, road works and construction of public lighting in Portion 5 (g) Drainage works, backfilling, road works, watermains works, construction of retaining wall, slope works, district cooling system works and road lighting works in Portion 6a (h) Operation of HAC treatment facility in Portion 6b (i) Sheet piling, excavation, stockpile of soil, drainage works, watermain works and road works in Portion 7 (j) Road works, drainage works, watermain works, soil nail, planting and metal works in Portion 8a (k) Ground treatment, trenchless works, watermain works, grouting, ELS construction and chamber construction in Portion 8b (l) Sheet piling, ELS construction, road works, drainage works, watermain works, district cooling system works, grouting works and public lighting in Portion 9b (m) Backfilling in Portion 9c (n) Sewage works, drainage works, road works, backfilling, excavation and sheet piling in Portion 10b (o) Site formation, excavation, drainage works, roadworks and watermain works in Portion 11b (p) Stockpile of soil in Portion 13
ND/2019/02	(a) Backfilling (b) Excavation (c) Concreting (d) Cut and Fill of Slope (e) Sheet Piling (f) Pipe Jacking (g) Pipe laying and bedding (h) Grouting
ND/2019/03	The construction phase has been completed since 28 March 2025.
ND/2019/04	(a) Pile Cap (b) Back Filling (c) Excavation (d) Grouting (e) Road works (f) Formwork and Scaffolding Erection (g) Rebar Fixing and ELS (h) Backfilling
ND/2019/05	(a) Backfilling (b) Drainage works (c) Water works

Contract No.	Site Activities (May to July 2025)
	(d) Ducting and Road works (e) Slope works (f) Segments erection (g) ELS (h) Wall construction
ND/2019/06	The construction phase has been completed and handed over to AFCD since 4 April 2022.
ND/2019/07	(a) Road works at Portion 1, 3 and 4 (b) C&D waste disposal at Portion 2 and 4 (c) Filling Works at Portion 2 (d) Construction of site haul road at Portion 4 (e) Drainage works at Portion 1, 2, 3 and 4 (f) Sewerage works at Portion 3 and 4 (g) Construction of noise barrier at Portion 4 (h) Waterworks at Portion 1, 2, 3 and 4

1 INTRODUCTION

1.1 Wellab Limited was commissioned by Civil Engineering and Development Department (CEDD) as the Environmental Team to undertake the Environmental Monitoring and Audit (EM&A) services for the Works Contracts involved in the implementation of the First Phase Development of Kwu Tung North (KTN) and Fanling North (FLN) New Development Areas (NDAs) Project to ensure that the environmental performance of the Works Contracts complies with the requirements specified in the Environmental Permits (EPs), Updated EM&A Manual, Environmental Impact Assessment (EIA) Report of the KTN FLN NDAs project and other relevant statutory requirements.

Purpose of the report

1.2 This is the 66th EM&A Report which summarises the key findings of the EM&A programme in April 2025.

Structure of the report

1.3 The structure of the report is as follows:

Section 1: **Introduction -** purpose and structure of the report.

Section 2: **Project Information -** summarises background and scope of the Project, site description, project organisation and contact details, construction programme, the construction works undertaken and the status of Environmental Permits/Licences during the reporting month.

Section 3: **Air Quality Monitoring -** summarises the monitoring parameters, monitoring programmes, monitoring methodologies, monitoring frequencies, monitoring locations, Action and Limit Levels, monitoring results and Event / Action Plans.

Section 4: **Noise Monitoring -** summarises the monitoring parameters, monitoring programmes, monitoring methodologies, monitoring frequencies, monitoring locations, Action and Limit Levels, monitoring results and Event / Action Plans.

Section 5: **Water Quality Monitoring - s**ummarises the monitoring parameters, monitoring programmes, monitoring methodologies, monitoring frequencies, monitoring locations, Action and Limit Levels and Event / Action Plans.

Section 6: **Land Contamination (Ambient Arsenic Monitoring) -** summarises the monitoring parameters, monitoring programmes, monitoring methodologies, monitoring frequencies, monitoring locations, Action and Limit Levels, monitoring results and Event / Action Plans.

Section 7: **Landfill Gas Monitoring -** summarises the monitoring requirement, monitoring parameters and frequency, monitoring locations, Action and Limit Levels, monitoring results and observation, and Event / Action Plans.

Section 8: **Built Heritage Monitoring –** summarises the monitoring requirement, monitoring parameters and frequency, monitoring locations, Action and Limit Levels, monitoring results and observation.

Section 9: **Ecological Monitoring –** summarises the details of monitoring of measures to minimise disturbance to waterbirds in Ng Tung River, Sheung Yue River, Shek Sheung River and Long Valley, monitoring of measures to

minimise impacts on ecological sensitive habitats from disturbance and pollution during the reporting month.

Section 10: **Environmental Site Inspection -** summarises the audit findings of the weekly site inspections undertaken within the reporting month.

Section 11: **Environmental Non-conformance -** summarises any monitoring exceedance, environmental complaints, environmental summons and successful prosecutions within the reporting month.

Section 12: **Future Key Issues -** summarises the impact forecast, proposed mitigation measures and monitoring schedule for the upcoming months.

Section 13: **Conclusions and Recommendations**

2 PROJECT INFORMATION

Background

2.1 The Kwu Tung North (KTN) and Fanling North (FLN) New Development Areas (NDAs) are one of the important sources of land and housing supply in the medium and long term. The development of the KTN and FLN NDAs will be implemented in phase for full completion by 2031. The Phase 1 of the NDAs development, comprising the Advance Works and First Stage Works, is targeted to be implemented from the second half of 2019 progressively. The Advance and First Stage Works would include site formation, engineering infrastructure works (including roads, drainage, sewerage, waterworks, landscaping works, pumping stations, and fresh water and flushing water service reservoirs), soil remediation, reprovisioning of North District Temporary Wholesale Market, development of a nature park at Long Valley and implementation of environmental mitigation measures.

2.2 The scope of works under the Advance and First Stage Works comprises the following:

a) The Advance Works (PWP item No. 7747CL-2) consist of:
   i) site formation of land (including soil remediation) in KTN and FLN NDAs for housing, community facilities and engineering infrastructure;
   ii) construction of roads including the eastern section of Fanling Bypass (FLBP(E)) connecting the FLN NDA to Fanling Highway and other roads with footpaths and cycle tracks, and associated junction/ road improvements;
   iii) engineering infrastructure works including drainage. Sewerage (including two sewage pumping stations), waterworks (including a fresh water service reservoir and a flushing water service reservoir in the KTN NDA), landscape works and slopeworks;
   iv) part expansion and upgrading of Shek Wu Hui Sewage Treatment Works (SWHSTW);
   v) reprovisioning works; and
   vi) implementation of environmental mitigation measures and environmental monitoring and audit (EM&A) programme for the works mentioned in (i) to (v) above.

b) The First Stage Works (PWP item No. 7759CL) consist of:
   i) development of a nature park at Long Valley including provision of a visitor centre and a footbridge spanning across Sheung Yue River for connection between these two facilities;
   ii) reprovisioning of two egretry sites in the FLN NDA and enhancement works to an existing egretry site in the KTN NDA;
   iii) site formation of land for a village resite area and a district police station in the KTN NDA;
   iv) engineering infrastructure works including roads, drainage, sewerage, waterbirds, and landscape works; and
   v) implementation of environmental mitigation measures and environmental monitoring and audit (EM&A) programme for the works mentioned in (i) to (iv) above.

2.3 The Project which covers KTN and FLN NDAs is a designated project (DP) under Schedule 3

of the Environmental Impact Assessment (EIA) Ordinance (Cap. 499). In October 2013, the EIA Report (AEIAR-175/2013) for the Project was approved by the Director of Environmental Protection pursuant to the EIA Ordinance. The relevant EPs under the Project and the respective Work Contracts are summarised in **Tables 2.1a** and **2.1.b**.

Table 2.1a Summary of EPs under the Project and the Respective Work Contracts

EP No.	Designated Project	C1	C2	C3	C5 A	C5 B	C6	C7
EP-466/2013/A	Castle Peak Road Diversion	✓						
EP-467/2013/A	Kwu Tung North New Development Area Road P1 and P2 and Associated New Kwu Tung Interchange and Pak Shek Au Interchange Improvement	✓						
EP-468/2013/A	Kwu Tung North New Development Area Road D1 to D5	✓		✓				
EP-469/2013	Sewage Pumping Stations in Kwu Tung North New Development Area		✓					
EP-470/2013/A	Utilization of Treated Sewage Effluent (TSE) from Shek Wu Hui Sewage Treatment Works	✓						
EP-473/2013/A	Fanling Bypass Eastern Section			✓	✓	✓		
EP-475/2013/A	Reprovision of temporary Wholesale Market in Fanling North New Development Area						✓	
EP-546/2017	Fanling North Temporary Sewage Pumping Station				✓			

Notes: C1: ND/2019/01 C2: ND/2019/02 C3: ND/2019/03 C5A: ND/2019/04
C5B: ND/2019/05 C6: ND/2019/06 C7: ND/2019/07

Table 2.1b Summary of Scope of Works under concerned EP

Environmental Permit (EP) No.	Work Contract(s)	Scope of Works under concerned EP(s)	Site Layout Plan under concerned EP(s)
EP-466/2013/A(Part)	C1	Realign Castle Peak Road and join with the Pak Shek Au Interchange at the western end	Figure 12
EP-467/2013/A(Part)	C1	Construction of new primary distributor road (P1) within Kwu Tung North New Development Area	Figure 13
EP-468/2013/A(Part)	C1	Construction of new primary distributor roads (D1, D3, D4 and part of D5) within Kwu Tung North New Development Area	Figure 14
	C3	Development of a nature park at Long Valley and ecological mitigation and enhancement works for the nature park (Condition 2.9)	Figure 15
EP-469/2013(Part)	C2	Construction of one sewage pumping station in Kwu Tung North with installed capacity of more than 2,000 m3 per day	Figure 16

Environmental Permit (EP) No.	Work Contract(s)	Scope of Works under concerned EP(s)	Site Layout Plan under concerned EP(s)
EP-470/2013/A(Part)	C1	Construction of service reservoir and watermain for the reuse of treated sewage effluent for reuse in Kwu Tung North Development Areas	Figure 17
EP-473/2013/A(Part)	C3	Establishment of alternative egretry sites and enhance the existing egretry site at Ho Sheung Heung and/or its vicinity (Condition 2.7)	Figure 18
EP-473/2013/A(Part)	C5A	Construction of new district distributor inside FLN NDA, which provides a linkage between the Man Kam To Road and the proposed Fanling Bypass Eastern Section	Figure 19
EP-473/2013/A(Part)	C5B		Figure 20
EP-475/2013/A	C6	The re-provisioned wholesale market will have approximately 1,000 market stalls within a site area of around 1.3 ha	Figure21
EP-546/2017	C5A	Construct and operate a temporary sewage pumping station in Fanling North with installed capacity (average dry weather flow) of about 3,600m3/day	Figure 22

Remark: The EP(s) not related to the Project of the First Phase of the Kwu Tung North (KTN) and Fanling North (FLN) New Development Area (NDA) Development Areas are not included in the Table.

2.4 The site boundary of the Project and all Works Contracts are shown in **Drawing No. 1**.

2.5 The required submissions and submission status under Environmental Permits are shown in **Appendix U**.

2.6 The site layout plans under concerned Environmental Permits are shown in Figures 12 - 22.

Project Organization

2.7 Different parties with different levels of involvement in the Project organisation include:

- Project Proponent – Civil Engineering and Development Department (CEDD)
- *Supervisor / Supervisor's* Representative – AECOM Asia Co. Ltd.
- Environmental Team (ET) – Wellab Limited
- Independent Environmental Checker (IEC) – Mott MacDonald Hong Kong Ltd (MottMac)

2.8 The names and contact numbers of key personnel are summarised in **Table 2.2**.

Table 2.2 Key Contacts of the Project

Party	Role	Contact Person	Phone No.	Fax No.
Civil Engineering and Development Department, HKSAR (CEDD)	Project Proponent	Mr. Ryan Chau	3797 5387	3547 1658
Supervisor / Supervisor's Representative (AECOM Asia Co. Ltd.)	Chief Resident Engineer	Mr. Alan Lee	6398 5982	2680 9515
	Senior Resident Engineer	Mr. King-man Chan	9651 2635	2680 9515
Environmental Team (Wellab Limited)	Environmental Team Leader	Dr. Priscilla Choy	2898 7388	2898 7076
Independent Environmental Checker (MottMac)	Independent Environmental Checker	Mr. Thomas Chan	2828 5967	2827 1823
Contract No. ND/2019/01 Contractor (Build King – Richwell Engineering Joint Venture)	Site Agent	Mr. Ivan Leung	9640 8340	--
	Environmental Officer	Mr. Edward Tam	9287 8270	
Contract No. ND/2019/02 Contractor (Chun Wo – Kwan Lee Joint Venture.)	Site Agent	Mr. Andy Chan	3485 9780	--
	Environmental Officer	Ms. Barbara Yiu	9758 2034	
Contract No. ND/2019/03 Contractor (Sang Hing Kuly Joint Venture)	Site Agent	Mr. Tang Wing Kai	9300 7037	--
	Environmental Officer	Mr. Ken Cheung	9803 5297	
Contract No. ND/2019/04 Contractor (Daewoo – Chun Wo – Kwan Lee Joint Venture)	Site Agent	Mr. Eric Wu	9786 8630	--
	Environmental Officer	Mr. Sam Lam	6178 3179	
Contract No. ND/2019/05 Contractor (CRCC – Paul Y. Joint Venture)	Site Agent	Mr. Darvin Lo	9467 5891	--
	Environmental Manager	Mr. Pan Fong	9436 9435	
	Environmental Officer	Ms. Connie Yuen	6316 6931	
Contract No. ND/2019/06 Contractor (New Concepts Engineering Development Ltd.)	Project Manager	Mr. Joe Cheng	9861 0060	--
	Environmental Officer	Mr. Alex Choy	6360 3236	
Contract No. ND/2019/07 Contractor (China Road and Bridge Corporation)	Site Agent	Mr. Mac Chow	9169 9567	--
	Environmental Manager	Mr. K. M. Lui	5113 8223	
	Environmental Officer	Ms. Sedo Sze	5111 8018	

Summary of Construction Works Undertaken During Reporting Month

2.9 The major site activities undertaken in the reporting month are shown in **Table 2.3**.

Table 2.3 Summary Table for Major Site Activities in the Reporting Month

Contract No.	Site Activities (April 2025)
ND/2019/01	(a) Drainage works, watermain works, sheet piling and slope works in Portion 1a (b) Site formation, watermain works, ELS construction, sewage works, backfill and road works in Portion 1c (c) Site formation, construction of subway, drainage works, road works and slope work in Portion 2 (d) HAC soil treatment, watermain works, drainage works and sheet piles in Portion 3 (e) Site formation, watermain works, drainage works and DCS pipe work in Portion 5 (f) Backfilling, drainage works, watermain works, slope works, road works and district cooling system in Portion 6a (g) Operation of HAC soil treatment facility in Portion 6b (h) Excavation, watermain works, sewage works, road works and drainage works in Portion 7 (i) Road works, RC construction of fresh water service reservoir, drainage works, watermain works, backfilling, planting and metal works in Portion 8a (j) Ground Treatment, Trenchless work, grouting, watermain construction and ELS construction in Portion 8b (k) Sheet piling, excavation, drainage works, watermain works and district cooling system in Portion 9b (l) No activity in Portion 11b this month (m) Stockpile of soil in Portion 13
ND/2019/02	(a) Backfilling (b) Excavation (c) Concreting (d) Cut and Fill of Slope (e) Sheet Piling (f) Pipe Jacking (g) Pipe laying and bedding (h) Grouting
ND/2019/03	All construction activities with significant environmental impact have been substantially completed in April 2024 and all outstanding works with defect rectification have also been completed on 28 March 2025.
ND/2019/04	(a) Pile Cap (b) Back Filling (c) Excavation (d) Grouting (e) Road works (f) Formwork and Scaffolding Erection (g) Rebar Fixing and ELS (h) Backfilling (i) S960 Delivery
ND/2019/05	(a) <u>South Team</u> - BBI Toilet – Backfilling and ABWF is in progress. - Lift LT01 – Lift installation is in progress. - FW54 – Footing and stem wall completed on 7 April 2025.

Contract No.	Site Activities (April 2025)
	- E4 Retaining Wall – Stem wall is 50% completed. - E4 Ramp Utrough Bay 17~21 – Footing is 60% completed. Bay 17 wall construction and Bay 20 excavation is in progress. - FW56 Bay 22~25 – Footing and wall are 25% completed. Excavation for Bay 23 is in progress. - **Noise barrier NB109 Bay 5~19** A. Backfilling to formation was completed. Backfilling subbase in progress. B. Installation of noise barrier columns and concrete profile barrier was in progress. C. Bay 1~4 Re-excavation resumed to expose couplers for construction of remaining part of stem walls. - **Noise barrier NB70** A. Bay 1 to 6 – Backfilling to formation was completed. - **Noise barrier NB69** A. Bay 1, 2a – ELS in progress. - **Noise barrier NB110** A. Bay 10 – Stem wall was completed. TTA421C was implemented on 3 April 2025. - **Noise barrier NB 29 Through Bay 1-23** A. Footing is 70% completed B. Wall (exclude parapet) is 60% completed. Parapet section will cast after backfilling to formation. - **Noise barrier NB 30** A. Pre-bored Socket H pile construction (187/211 nos) completed. B. RC for bay 18 & 20 completed & bay 13 to bay 17 in progress - **Noise barrier NB 77** A. ELS works for NB77 footing in progress. - Fabrication of Sign Gantry – out of 20 Columns are completed. 6 columns are under fabrication. - Fabrication of Noise Barrier – NB27~31 noise barrier columns are under fabrication. (b) <u>North Team</u> - Reinstatement works & footpath in progress in C4-02 (HD) - C1-01B for viaduct drainage completed, C2-02 & B2-02 in progress. - D1-01, E2-01, C1-02 & C2-01 watermain works & pillar box for viaduct in progress. - Backfilling of B2-02, B2-03, C1-01b & D2-01 in progress. - JCR: Construction of new central median & ducting works for traffic signal & road light were completed of 96%. - JCR & Tong Hang Village J/O improvement works (FS 25): slope works 96 % completed. - JCR & Tong Hang Village J/O (near bus-stop) : Ducting works for traffic signal & road light was in progress (96 % completed). - JCR near F63 –slope feature construction works in progress. (c) <u>Bridges and Structures</u> - All of 116 type C segments were casted in DongGuan casting yard and delivered to site. Total 115 segment were erected. - All of 791 type A segments were casted in HuiZhou casting yard and delivered to site. Total 791 segment were erected. - LG launching to B1-02 completed, erection of end span segment from B1-02 to B2-01 in progress.

Contract No.	Site Activities (April 2025)
	- Installation of parapet and central median for bridge C1 - Installation of deck void drainage at Bridge B2 in progress. - Reinstate of lifting tower NF83A in progress. - D1-04 end span segment erection completed. - Installation of movement joint C2-04b and C4-04b completed. Total 4 nos out of 20 MJ installation completed. - Water proofing for Bridge E1,C4R,C3R completed, water proofing for bridge C2R in progress. - Asphalt paving on the deck in progress, started from Bridge C3R. - Installation of railing and noise barrier on bridge deck in progress. - B1-01 diaphragm beam construction in progress. (d) Form Traveler - Dismantling of form traveler at E3-04 & D2-01 completed. - Parapet installation at D2 bridge in progress.
ND/2019/06	The construction phase was completed and handed over to AFCD since 4 April 2022.
ND/2019/07	(a) Road works at Portion 1, 3 and 4 (b) C&D waste disposal at Portion 2 and 4 (c) Filling works at Portion 2 (d) Construction of site haul road at Portion 4 (e) Drainage works at Portion 1, 2, 3 and 4 (f) Sewerage works at Portion 3 and 4 (g) Construction of noise barrier at Portion 4 (h) Waterworks at Portion 1, 2, 3 and 4

Construction Programme

2.10 Copies of Contractors' construction programmes are provided in **Appendix A**.

Status of Environmental Licences, Notifications and Permits

2.11 A summary of the relevant permits, licences, and/or notifications on environmental protection for this Project is presented in **Table 2.4**.

Table 2.4 Status of Environmental Licences, Notifications and Permits

Contract No.	Permit / Licence No.	Valid Period		Status
		From	To	
Environmental Permit (EP)				
ND/2019/01	EP-466/2013/A	21/11/2013	N/A	Valid
	EP-467/2013/A	27/01/2017	N/A	Valid
	EP-468/2013/A	27/01/2017	N/A	Valid
	EP-470/2013/A	21/11/2013	N/A	Valid
ND/2019/02	EP-469/2013	21/11/2013	N/A	Valid
ND/2019/03	EP-468/2013/A	27/01/2017	N/A	Valid
	EP-473/2013/A	27/01/2017	N/A	Valid
ND/2019/04	EP/473/2013/A	27/01/2017	N/A	Valid
	EP/546/2017	16/11/2017	N/A	Valid
ND/2019/05	EP-473/2013/A	27/01/2017	N/A	Valid
ND/2019/06	EP-475/2013/A	13/01/2017	N/A	Valid
Construction Noise Permit (CNP)				
ND/2019/01	GW-RN1248-24	16/11/2024	15/04/2025	Renewed to GW-RN0276-25 in the reporting month
	GW-RN0035-25	25/01/2025	24/06/2025	Renewed to GW-RN0426-25 in the reporting month
	GW-RN1536-24	12/01/2025	11/04/2025	Renewed to GW-RN0358-25 in the reporting month
	GW-RN0162-25	24/02/2025	23/04/2025	Expired in the reporting month
	GW-RN0086-25	19/02/2025	18/08/2025	Valid
	GW-RN0087-25	16/02/2025	15/06/2025	Valid
	GW-RN0123-25	24/02/2025	23/06/2025	Valid
	GW-RN0083-25	19/02/2025	18/06/2025	Valid
	GW-RN0088-25	12/02/2025	11/06/2025	Valid
	GW-RN0331-25	29/03/2025	28/05/2025	Valid
	GW-RN0108-25	01/03/2025	31/08/2025	Valid
	GW-RN0276-25	16/04/2025	15/09/2025	Valid
	GW-RN0151-25	01/04/2025	31/08/2025	Valid
	GW-RN0358-25	12/04/2025	11/08/2025	Valid
	GW-RN0426-25	17/04/2025	16/09/2025	Valid
ND/2019/02	GW-RN1415-24	12/12/2024	11/04/2025	Expired in the reporting month
	GW-RN0150-25	21/02/2025	20/05/2025	Valid
	GW-RN0233-25	23/03/2025	22/07/2025	Valid
	GW-RN0372-25	12/04/2025	11/09/2025	Valid
ND/2019/04	GW-RN0213-25	04/03/2025	03/05/2025	Valid
	GW-RN0251-25	12/03/2025	28/04/2025	Expired in the reporting month
	GW-RN0314-25	22/03/2025	21/06/2025	Valid
	GW-RW0083-25	01/03/2025	01/06/2025	Valid
	GW-RN0293-25	27/03/2025	26/06/2025	Valid
ND/2019/05	GW-RN0118-25	17/02/2025	16/04/2025	Expired in the reporting month
	GW-RN0262-25	16/03/2025	08/06/2025	Cancelled and superseded by GW-RN0376-25 in the reporting month

Contract No.	Permit / Licence No.	Valid Period		Status
		From	To	
	GW-RN1344-24	01/12/2024	30/04/2025	Expired in the reporting month
	GW-RN0168-25	20/02/2025	30/04/2025	Expired in the reporting month
	GW-RN0167-25	19/02/2025	18/05/2025	Valid
	GW-RN0179-25	01/03/2025	31/08/2025	Valid
	GW-RN0180-25	01/03/2025	31/05/2025	Valid
	GW-RN0184-25	01/03/2025	31/05/2025	Valid
	GW-RN0263-25	15/03/2025	14/05/2025	Valid
	GW-RN0375-25	15/04/2025	15/06/2025	Valid
	GW-RN0376-25	07/04/2025	30/06/2025	Valid
Notification pursuant to Air Pollution Control (Construction Dust) Regulation				
ND/2019/01	451792	11/12/2019	N/A	Valid
	477388	02/03/2022	N/A	Valid
ND/2019/02	454012	05/03/2020	N/A	Valid
ND/2019/03	452216	24/12/2019	N/A	Valid
	452332	31/12/2019	N/A	Valid
	452333	31/12/2019	N/A	Valid
ND/2019/04	461184	23/10/2020	N/A	Valid
ND/2019/05	454323	13/03/2020	N/A	Valid
ND/2019/06	449369	24/09/2019	N/A	Valid
ND/2019/07	459393	28/08/2020	N/A	Valid
Billing Account for Disposal of Construction Waste				
ND/2019/01	7036265	17/01/2020	N/A	Valid
ND/2019/02	7036898	01/04/2020	N/A	Valid
ND/2019/03	7036378	22/01/2020	N/A	Valid
ND/2019/04	7038391	22/09/2020	N/A	Valid
ND/2019/05	7036901	01/04/2020	N/A	Valid
ND/2019/06	7035473	17/10/2019	N/A	Valid
ND/2019/07	7038309	14/09/2020	N/A	Valid
Registration of Chemical Waste Producer				
ND/2019/01	5213-545-B2578-01	10/01/2020	N/A	Valid
ND/2019/02	5213-548-C4439-01	06/05/2020	N/A	Valid
ND/2019/03	5213-623-S4231-01	14/04/2020	N/A	Valid
ND/2019/04	5211-624-D2709-01	26/11/2020	N/A	Valid
ND/2019/05	5213-625-C4464-01	20/05/2020	N/A	Valid
ND/2019/06	5213-625-N2716-01	02/10/2019	N/A	Valid
ND/2019/07	5213-625-C4498-01	21/09/2020	N/A	Valid
Effluent Discharge License under Water Pollution Control Ordinance				
ND/2019/01	WT00036071-2020	22/06/2020	30/06/2025	Valid
	WT00036073-2020	22/06/2020	30/06/2025	Valid
	WT00036067-2020	22/06/2020	30/06/2025	Valid
	WT00036075-2020	22/06/2020	30/06/2025	Valid

Contract No.	Permit / Licence No.	Valid Period		Status
		From	To	
	WT00036076-2020	22/06/2020	30/06/2025	Valid
	WT00037191-2020	21/04/2022	28/02/2026	Valid
	WT00037204-2020	16/11/2022	28/02/2026	Valid
	WT00037412-2021	05/12/2023	30/04/2026	Valid
	WT00037564-2021	19/04/2021	30/04/2026	Valid
	WT00037886-2021	28/06/2021	30/06/2026	Valid
	WT00041311-2022	21/06/2022	30/06/2027	Valid
	WT10001848-2023	05/12/2023	31/12/2028	Valid
	WT00044860-2024	29/07/2024	31/07/2029	Valid
	WT00044814-2024	08/07/2024	31/07/2029	Valid
	WT10002972-2024	07/06/2024	30/06/2029	Valid
ND/2019/02	WT00036584-2020	21/10/2020	31/10/2025	Valid
	WT00036952-2020	17/12/2020	31/12/2025	Valid
ND/2019/03	WT00035847-2020	12/08/2020	31/08/2025	Valid
	WT00037771-2021	08/07/2021	31/07/2026	Valid
ND/2019/04	WT00037539-2021	02/06/2022	30/04/2026	Valid
ND/2019/05	WT00042471-2022	03/11/2022	30/11/2027	Valid
ND/2019/07	WT00037526-2021	21/04/2022	31/05/2026	Valid

3 AIR QUALITY MONITORING

Monitoring Requirements

3.1 In accordance with the Updated EM&A Manual, impact 1-hour TSP and 24-hr TSP monitoring shall be conducted to monitor the air quality for the Works Contracts. **Appendix B** shows the established Action/Limit Level for the air quality monitoring works.

3.2 Impact 1-hour TSP monitoring was conducted for at least three times every 6 days, while the impact 24-hour TSP monitoring was conducted for at least once every 6 days at the designated air quality monitoring stations.

Monitoring Location

3.3 Impact air quality monitoring was conducted at the monitoring stations under the Works Contracts, as shown in **Figure 1 and Figure 2** according to Table 1.1 of Updated EM&A Manual and Baseline Air Quality Monitoring Report (KTN & FLN NDA).

Alternative Monitoring Station for KTN-DMS4

3.4 As KTN-DMS4 - Temporary structure near Fanling Highway (near Pak Shek Au) is no longer as existing ASR, air quality monitoring station should be relocated to the alternative dust monitoring location according to the updated EM&A Manual, Section 2.6.2. According to Figure 3.1 of Approved EIA report and site visits conducted in June 2022, ASR at near KTN-E70 – Temporary Structure near Fanling Highway near Pak Shek Au is considered as the most representative alternative station **KTN-DMS4(B)** for air quality monitoring for KTN-DMS4 (i.e. KTNE162).

3.5 The alternative monitoring location **KTN-DMS4(B)** is agreed by EPD on 17 August 2022. The 1-hr and 24-hrs TSP monitoring commenced starting from **24 August 2022**. **Table 3.1** describes the location of the air quality monitoring stations.

Table 3.1 Location for Air Quality Monitoring Locations

EP No.	Contract No.	Monitoring Station	Location
EP-473/2013/A	ND/2019/03	FLN-DMS1[2]	Scattered Village Houses North of Proposed Potential Ecopark
	ND/2019/04		
	ND/2019/05	FLN-DMS3[3]	House near Tong Hang
	ND/2019/03	FLN-DMS5[4]	Noble Hill
	ND/2019/04	FLN-DMS5A	Good View New Village
EP-466/2013/A EP-467/2013/A EP-468/2013/A	ND/2019/01	KTN-DMS4(B)[5]	Temporary Structure near Fanling Highway (near Pak Shek Au)
EP-468/2013/A	ND/2019/03		

Remarks:
[1]: Noting that construction phase air quality monitoring at the other proposed monitoring stations (e.g. planned), where access is permitted, will be conducted during construction phase of relevant works contract(s).
[2]: Since the distance between monitoring station and site boundary of ND/2019/05 under EP-473/2013/A exceeds 500m, the monitoring station is not applicable to ND/2019/05.
[3]: Since the distance between monitoring station and site boundary of ND/2019/03 and ND/2019/04 under EP-473/2013/A exceeds 500m, the monitoring station is not applicable to ND/2019/03 and ND/2019/04.
[4]: Since the distance between monitoring station and site boundary of ND/2019/05 under EP-473/2013/A exceeds 500m, the monitoring station is not applicable to ND/2019/05
[5] KTN-DMS4(B) commenced starting from 24 August 2022 as an alternative monitoring station of KTN-DMS4.

Monitoring Equipment

3.6 As the power supply for High Volume Sampler (HVS) for TSP monitoring at FLN-DMS 5A, KTN-DMS 4 and KTN-DMS 4(B) were rejected, direct reading dust meter was used to measure both 1-hour and 24-hour TSP levels:-

- The proposal for alternative monitoring equipment (i.e. direct reading dust meter) for TSP monitoring was approved by EPD according to the approved Baseline Air Quality Monitoring Report (KTN & FLN NDA); and
- Same measurement methodology (i.e. direct reading dust meter) was adopted as baseline monitoring for a reliable comparison.

3.7 The proposed use of portable direct reading dust meters was also submitted to IEC and agreement was obtained from the IEC in accordance with Section 2.4.5 of the Updated EM&A Manual.

3.8 HVS for 24-hour TSP monitoring will be adopted once secured supply of electricity become available at FLN-DMS 5A and KTN-DMS 4(B).

3.9 **Table 3.2** summarises the equipment used in the impact air monitoring programme. Copies of calibration certificates are attached in **Appendix C**.

Table 3.2 Air Quality Monitoring Equipment

Monitoring Station	Equipment	Manufacturer	Model and Make	Quantity
FLN-DMS5 FLN-DMS5A KTN-DMS4(B)	Dust Monitor (1-hour and 24-hour TSP)	Met One Instruments	AEROCET-831	8
FLN-DMS1 FLN-DMS3	Dust Monitor (1-hour TSP)			
	HVS Sampler (TSP) (24-hour TSP)	Tisch	TISCH Model: TE-5170	2

3.10 Meteorological information extracted from “Hong Kong Observatory - Ta Kwu Ling Weather Station” was proposed as the alternative method to obtain representative wind data. For Ta Kwu Ling Weather Station, it is located nearby the Project site and situated at approximately 15m above mean sea level. The station’s wind data monitoring equipment is set above the existing ground 10 meters in compliance with the general setting up requirements. Furthermore, this station also provides other meteorological information, such as humidity, rainfall, air pressure and temperature etc.

3.11 The general weather conditions (i.e. sunny, cloudy or rainy) were recorded by the field staffs during the monitoring days.

Monitoring Parameters, Frequency and Duration

3.12 **Table 3.3** summarises the monitoring parameters and frequencies of impact dust monitoring during the Works Contracts activities. The air quality monitoring schedule for the reporting month is shown in **Appendix D**.

Table 3.3 Impact Dust Monitoring Parameters, Frequency and Duration

Parameters	Frequency
1-hour TSP	Three times/ 6 days
24-hour TSP	Once / 6 days

Monitoring Methodology and QA/QC Procedure

1-hour and 24-hour TSP Air Quality Monitoring

Instrumentation

3.13 Direct reading dust meter was deployed for the air quality monitoring as shown in **Table 3.2**.

3.14 The measuring procedures of the dust meters were in accordance with the Manufacturer's Instruction Manual as follows:

(AEROCET-831)

- Place the 1-hour dust meter at least 1.3 meters above ground.
- Press and hold the Power key momentarily to power on the unit and make sure that the battery level was not flash or in low level.
- Allow the instrument to stand for about 3 second to display the Sample Screen minutes.
- Press the START / STOP key to run the internal vacuum pump for 1 minute and be ready to use.
- Use the select dial to select the PM range and press the START / STOP key to start a measurement.
- Finally, push the START/STOP key to stop the measurement after 1 hour sampling.
- Information such as sampling date, time, value and site condition were recorded during the monitoring period.
- All data were recorded in the data logger for further data processing.

Maintenance/Calibration

3.15 The following maintenance/calibration was required for the direct dust meters:

- Check and calibrate the meters by HVS to check the validity and accuracy of the results measured by direct reading method at 2-month intervals throughout all stages of the air quality monitoring.

24-hour TSP Air Quality Monitoring

Instrumentation

(TISCH Model: TE-5170)

3.16 High volume Samplers (HVS) completed with appropriate sampling inlets were employed for 24-hour TSP monitoring. Each sampler was composed of a motor, a filter holder, a flow controller and a sampling inlet and its performance specification complies with that required by USEPA Standard Title 40, Code of Federation Regulations Chapter 1 (Part 50).

HVS Installation

3.17 The following guidelines were adopted during the installation of HVS:

- A horizontal platform with appropriate support was provided to secure the samplers against gusty wind.
- No two samplers were placed less than 2 meters apart.
- The distance between the sampler and an obstacle, such as buildings, was at least twice the height that the obstacle protrudes above the sampler.
- A minimum of 2 meters of separation from walls, parapets and penthouses was required for rooftop samples.
- A minimum of 2 meters separation from any supporting structure, measured horizontally was required.
- No furnaces or incineration flues were nearby.
- Airflow around the sampler was unrestricted.
- The samplers were more than 20 meters from the drip line.
- Any wire fence and gate, to protect the sampler, should not cause any obstruction during monitoring.
- Permission and access to the monitoring stations have been obtained to set up the samplers.
- A secured supply of electricity was provided to operate the samplers.

Filters Preparation

3.18 Wellab Limited (HOKLAS Registration No. HOKLAS083) is a HOKLAS accredited laboratory and responsible for the preparation of 24-hour conditioned and pre-weighed filter papers for the monitoring team.

3.19 All filters were equilibrated in the conditioning environment for 24 hours before weighing. The conditioning environment temperature was around 25°C and not variable by more than ±3°C; the relative humidity (RH) was < 50% and not variable by more than ±5%. A convenient working RH was 40%.

Operating/Analytical Procedures

3.20 Operating/analytical procedures for the air quality monitoring were highlighted as follows:

- Prior to the commencement of dust sampling, the flow rate of the HVS was properly set (between 1.1 m^3/min. and 1.4 m^3/min.) in accordance with the manufacturer's instruction to within the range recommended in USEPA Standard Title 40, CFR Part 50;
- The power supply was checked to ensure the sampler worked properly;
- On sampling, the sampler was operated for 5 minutes to establish thermal equilibrium before placing any filter media at the designated air quality monitoring station;
- The filter holding frame was then removed by loosening the four nuts and carefully a weighted and conditioned filter was centered with the stamped number upwards, on a supporting screen;
- The filter was aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter. The filter holding frame was then tightened to the filter holder

with swing bolts. The applied pressure should be sufficient to avoid air leakage at the edges;

- The shelter lid was closed and secured with the aluminum strip;
- The timer was then programmed. Information was recorded on the record sheet, which included the starting time, the weather condition and the filter number (the initial weight of the filter paper can be found out by using the filter number);
- After sampling, the filter was removed and kept in a clean and tightly sealed plastic bag. The filter paper was then returned to the HOKLAS accredited laboratory (Wellab Ltd.) for reconditioning in the humidity-controlled chamber followed by accurate weighting by an electronic balance with a readout down to 0.1mg. The elapsed time was also recorded; and
- Before weighing, all filters were equilibrated in a conditioning environment for 24 hours. The conditioning environment temperature should be between 25°C and 30°C and did not vary by more than ±3°C; the RH should be < 50% and did not vary by more than ±5%. A convenient working RH is 40%. Weighing results were returned for further analysis of TSP concentrations collected by each filter.

Maintenance/Calibration

3.21 The following maintenance/calibration was required for the HVS:

- The high volume motors and their accessories were properly maintained. Appropriate maintenance such as routine motor brushes replacement and electrical wiring checking were made to ensure that the equipment and necessary power supply are in good working conditions; and
- All HVS were calibrated (five point calibration) using Calibration Kit prior to the commencement of baseline monitoring and thereafter at bi-monthly intervals.

Results and Observations

3.22 The monitoring results for 1-hour TSP and 24-hour TSP are summarised in **Tables 3.4** and **3.5** respectively. Detailed monitoring results and graphical presentations of 1-hour and 24-hour TSP monitoring results are shown in **Appendix E**.

Table 3.4 Summary Table of 1-hour TSP Monitoring Results during the Reporting Month

Monitoring Station	Concentration (μg/m^3)		Action Level, μg/m^3	Limit Level, μg/m^3
	Average	Range		
FLN-DMS1	106.2	41.9 – 298.6	303	500
FLN-DMS3	93.3	33.7 – 285.8	301	500
FLN-DMS5	67.8	35.7 – 108.9	279	500
KTN-DMS4(B)	77.1	48.3 – 140.1	297	500

Table 3.5 Summary Table of 24-hour TSP Monitoring Results during the Reporting Month

Monitoring Station	Concentration (µg/m³)		Action Level, µg/m³	Limit Level, µg/m³
	Average	Range		
FLN-DMS1	51.3	30.6 – 84.2	150	260
FLN-DMS3	39.4	26.7 – 58.9	165	260
FLN-DMS5A	61.5	34.3 – 114.2	153	260
KTN-DMS4(B)	68.7	49.1 – 128.2	192	260

3.23 All 1-hour and 24-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedances were recorded.

3.24 According to our field observations, the major dust sources identified at the designated air quality monitoring stations in the reporting month are shown in **Table 3.6**:

Table 3.6 Observation at Dust Monitoring Stations

Monitoring Station	Major Dust Sources
FLN DMS1	Excavator, Dump Truck, Crane, Concrete Mixer Truck, Road Traffic
FLN-DMS3	Excavator, Electric Hand drill, Saw, Road Traffic
FLN-DMS5	Crane, Excavator, Concrete Mixer Truck, Crane Truck, Road Traffic
FLN-DMS5A	Crane, Excavator, Road Traffic, Concrete Mixer Truck, Crane Truck
KTN-DMS4(B)	Excavator, Crane, Sheet Piling, Dump truck, Breaker, Roller, Dump Truck, Road Traffic

Event and Action Plan

3.25 Should any non-compliance of the criteria occur, actions in accordance with the Event/Action Plan in **Appendix N** shall be carried out.

4. NOISE MONITORING

Monitoring Requirements

4.1 In accordance with the Updated EM&A Manual, construction noise monitoring shall be conducted in terms of the A-weighted equivalent continuous sound pressure level (L_{eq}) to monitor the construction noise arising from the construction activities. The regular monitoring frequency for each monitoring station was on a weekly basis and one set of measurements between 0700 and 1900 hours on normal weekdays was conducted. **Appendix B** shows the established Action and Limit Levels for the environmental monitoring works.

Monitoring Location

4.2 Impact noise monitoring was conducted at the monitoring stations, as shown in **Figures 3** and **4** according to Table 1.1 of the Updated EM&A Manual. **Table 4.1** describes the locations of the noise monitoring stations.

Table 4.1 Location of Noise Monitoring Stations

Contract No.	Monitoring Station(s)	Location(s)
ND/2019/06	CP-FLN-NMS1[2]	Belair Monte
ND/2019/04		
ND/2019/05		
	CP-FLN-NMS2[3]	Scattered Village Houses in Tong Hang
ND/2019/01	CP-KTN-NMS2[4]	Residential Buildings at Ma Tso Lung
	CP-KTN-NMS3[5]	Fung Kong Garden
ND/2019/01	CP-KTN-NMS5	N/A
ND/2019/02	CP-KTN-NMS6	Ho Sheung Heung, Hau Ku Shek Ancestral Hall, Hung Shing Temple & Pai Fung Temple and Sin Wai Nunnery

Remarks:
[1]: Noting that construction phase noise monitoring at the other proposed monitoring stations (e.g. planned), where access is permitted, will be conducted during construction phase of relevant works contract(s).
[2]: Since the distance between monitoring station and site boundary of ND/2019/03 under EP-473/2013/A exceeds 300m, the monitoring station is not applicable to ND/2019/03.
[3]: Since the distance between monitoring station and site boundary of ND/2019/03 and ND/2019/04 under EP-473/2013/A exceeds 300m, the monitoring station is not applicable to ND/2019/03 and ND/2019/04.
[4],[5]: Since the distance between monitoring station and site boundary of ND/2019/03 under EP-468/2013/A exceeds 300m, the monitoring station is not applicable to ND/2019/03.

Monitoring Equipment

4.3 Integrating Sound Level Meters were used for impact noise monitoring. The meters were Type 1 sound level meter capable of giving a continuous readout of the noise level readings including equivalent continuous sound pressure level (L_{eq}) and percentile sound pressure level (L_x) that complied with International Electrotechnical Commission Publications 651:1979 (Type 1) and 804:1985 (Type 1) specifications. **Table 4.2** summarises the noise monitoring equipment used. Copies of calibration certificates are attached in **Appendix C**.

Table 4.2 Noise Monitoring Equipment

Equipment	Manufacturer	Model	Quantity
Sound Level Meter	BSWA	BSWA 308	3
Acoustical Calibrator	SVANTEK	SV30A	2
	Brüel & Kjær	4231	1

Monitoring Parameters, Frequency and Duration

4.4 **Table 4.3** summarises the monitoring parameters, frequency and total duration of monitoring. The noise monitoring schedule is shown in **Appendix D**.

Table 4.3 Noise Monitoring Parameters, Duration and Frequency

Contract No.	Monitoring Stations	Parameters[2]	Duration	Frequency	Measurement
ND/2019/06	CP-FLN-NMS1[3]	$L_{10(30\ min.)}$ dB(A) $L_{90(30\ min.)}$ dB(A) $L_{eq(30\ min.)}$dB(A) (as six consecutive $L_{eq,\ 5min}$ readings)	0700-1900 hours on normal weekdays	Once per week	Façade
ND/2019/04					
ND/2019/05	CP-FLN-NMS2[4]				
ND/2019/01	CP-KTN NMS2[5]				Free-field[1]
	CP-KTN NMS3[6]				
ND/2019/01	CP-KTN NMS5				
ND/2019/02	CP-KTN-NMS6				Façade

Remarks:

[1]: Correction of +3dB (A) for free-field measurement.

[2]: A-weighted equivalent continuous sound pressure level (L_{eq}). It is the constant noise level which, under a given situation and time period, contains the same acoustic energy as the actual time-varying noise level.

L_{10} is the level exceeded for 10% of the time. For 10% of the time, the sound or noise has a sound pressure level above L_{10}.

L_{90} is the level exceeded for 90% of the time. For 90% of the time, the noise level is above this level.

[3]: Since the distance between monitoring station and site boundary of ND/2019/03 under EP-473/2013/A exceeds 300m, the monitoring station is not applicable to ND/2019/03.

[4]: Since the distance between monitoring station and site boundary of ND/2019/03 and ND/2019/04 under EP-473/2013/A exceeds 300m, the monitoring station is not applicable to ND/2019/03 and ND/2019/04.

[5],[6]: Since the distance between monitoring station and site boundary of ND/2019/03 under EP-468/2013/A exceeds 300m, the monitoring station is not applicable to ND/2019/03.

Monitoring Methodology and QA/QC Procedures

- The microphone head of the sound level meter was positioned at 1m from the exterior of the noise sensitive I and lowered sufficiently so that the building's external wall acted as a reflecting surface;
- The battery condition was checked to ensure the correct functioning of the meter;
- Parameters such as frequency weighting, time weighting and measurement time were set as follows:
  - frequency weighting : A
  - time weighting : Fast
  - time measurement : L_{eq}(30 min.) dB(A) (as six consecutive $L_{eq,\ 5min}$ readings) during non-restricted hours (i.e. 0700-1900 hours on normal weekdays)
- Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1.0 dB, the measurement would be considered invalid and repeat of noise measurement would be required after re-calibration or repair of the equipment;
- During the monitoring period, the values of L_{eq}, L_{90} and L_{10} were recorded. In addition, site conditions and noise sources were also recorded on a standard record sheet;
- Noise measurement was paused temporarily during periods of high intrusive noise (e.g. dog barking, helicopter noise) if possible and observation records during measurement period should be provided; and
- Noise monitoring was cancelled in the presence of fog, rain, and wind with a steady speed exceeding 5 m/s, or wind with gusts exceeding 10 m/s. The wind speed should be checked with a portable wind speed meter capable of measuring the wind speed in m/s.

Maintenance and Calibration

4.5 The microphone heads of the sound level meters and calibrators were cleaned with a soft cloth at quarterly intervals.

4.6 The sound level meters and calibrators were checked and calibrated at yearly intervals.

4.7 Immediately prior to and following each noise measurement, the accuracy of the sound level meter should be checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements would be accepted as valid only if the calibration levels before and after the noise measurement agreed to within 1.0 dB.

Results and Observations

4.8 The noise monitoring results are summarised in **Table 4.4**. Detailed monitoring results and graphical presentations of noise monitoring are shown in **Appendix F**. The weather information for the reporting month is summarised in **Appendix M.**

Table 4.4 Summary Table of Noise Monitoring Results during the Reporting Month

Contract No.	Monitoring Station	Noise Level Leq (30 min), dB(A)	Baseline Level, dB(A)	Limit Level, dB(A)
ND/2019/06	CP-FLN-NMS1[1]	67.0 – 69.7	69.9	75
ND/2019/04				
ND/2019/05				
	CP-FLN-NMS2[2]	57.2 – 67.6	59.6	
ND/2019/01	CP-KTN-NMS2[3]	48.6 – 61.6	58.6	
	CP-KTN-NMS3[4]	50.8 – 55.3	51.6	
ND/2019/01	CP-KTN-NMS5	47.8 – 59.7	57.2	
ND/2019/02	CP-KTN-NMS6	56.5 – 66.3	55.1	

Remarks:
[1]: Since the distance between monitoring station and site boundary of ND/2019/03 under EP-473/2013/A exceeds 300m, the monitoring station is not applicable to ND/2019/03.
[2]: Since the distance between monitoring station and site boundary of ND/2019/03 under EP-473/2013/A exceeds 300m, the monitoring station is not applicable to ND/2019/03.
[3],[4]: Since the distance between monitoring station and site boundary of ND/2019/03 under EP-468/2013/A exceeds 300m, the monitoring station is not applicable to ND/2019/03.

4.9 All noise monitoring was conducted as scheduled in the reporting month. No complaint on construction noise was received during the reporting month. No Action/Level exceedance was recorded. The summary of exceedance record in reporting month is shown in **Appendix O**.

4.10 According to our field observations, the major noise sources identified at the designated noise monitoring stations in the reporting month are as follows:

Table 4.5 Observation at Noise Monitoring Stations

Contract No.	Monitoring Station	Location	Major Noise Source
ND/2019/06	CP-FLN-NMS1[1]	Belair Monte (Existing)	Road Traffic Noise, Excavator, Dump Truck, Crane
ND/2019/04			
ND/2019/05			
	CP-FLN-NMS2[2]	Scattered Village House in Tong Hang (Existing)	Road Traffic Noise, Electric Hand Drill, Saw, Crane, Large Exhaust Fan
ND/2019/01	CP-KTN-NMS2[3]	Residential Buildings at Ma Tso Lung (Existing)	Road Traffic Noise, Crane Truck, Excavator
ND/2019/01	CP-KTN-NMS3[4]	Fung Kong Garden (Existing)	Road Traffic Noise
ND/2019/01	CP-KTN-NMS5	N/A	Truck Noise, Excavator, Road Traffic Noise
ND/2019/02	CP-KTN-NMS6	Ho Sheung Heung, Hau Ku Shek Ancestral Hall, Hung Shing Temple & Pai Fung Temple and Sin Wai Nunnery (Existing)	Road Traffic Noise, Excavator, Dump Truck

Remarks:

[1]: Since the distance between monitoring station and site boundary of ND/2019/03 under EP-473/2013/A exceeds 300m, the monitoring station is not applicable to ND/2019/03.
[2]: Since the distance between monitoring station and site boundary of ND/2019/03 under EP-473/2013/A exceeds 300m, the monitoring station is not applicable to ND/2019/03.
[3],[4]: Since the distance between monitoring station and site boundary of ND/2019/03 under EP-468/2013/A exceeds 300m. The monitoring station is not applicable to ND/2019/03.

Event and Action Plan

4.11 Should any non-compliance of the criteria occur, actions in accordance with the Event/Action Plan in **Appendix N** shall be carried out.

5. WATER QUALITY MONITORING

Monitoring Requirements

5.1 In accordance with the Updated EM&A Manual, impact water quality monitoring shall be carried out three days per week at all the designated monitoring stations during the construction period. The measurement periods are during the construction of channel specified in Table 4.1 of the Updated EM&A Manual. The interval between two sets of monitoring shall not be less than 36 hours.

5.2 Replicate in-situ measurements of Dissolved Oxygen (DO), temperature, turbidity, pH, Suspended Solids (SS) and samples for Suspended Solids (SS), ammonia nitrogen, unionized ammonia, nitrate nitrogen and orthophosphate from each independent sampling event were collected to ensure a robust statistically interpretable database.

5.3 **Appendix B** shows the established Action and Limit Levels for the water quality monitoring work according to the Updated EM&A Manual and Baseline Water Quality Monitoring Report (KTN & FLN NDA).

Monitoring Parameters, Frequency

5.4 **Table 5.1** summarises the monitoring parameters, monitoring periods and frequencies of the water quality monitoring.

Table 5.1 Water Quality Monitoring Parameters and Frequency

Parameters, unit	Depth	Frequency
• Temperature(°C) • pH(pH unit) • turbidity (NTU) • water depth (m) • salinity (ppt) • DO (mg/L and % of saturation) • SS (mg/L) • Ammonia Nitrogen (NH_3-N) (mg NH_3-N/L) • Unionized Ammonia (UIA) (mg/L) • Nitrate-nitrogen (NO_3-N) (mg NO_3^--N/L) • Ortho-phosphate (PO_4) (mg PO_4^{3-}-P/L)	• 3 water depths: 1m below water surface, mid-depth and 1m above river bed. • If the water depth was less than 3m, mid-depth sampling only. • If water depth was less than 6m, mid-depth may be omitted.	3 days per week during construction of channel

Results and Observations

5.5 According to Section 5.6.1.2 of the approved EIA Report, the potential water quality impact during construction is due to the alternation of natural streams (i.e. channelization of Ma Tso Lung Stream and Siu Hang San Tsuen Stream) as these two streams are the ecologically important streams.

5.6 No construction of channel was carried out at Ma Tso Lung Stream and Siu Hang San Tsuen Stream during the reporting month. Therefore, no water quality monitoring was conducted.

Additional Water Quality Monitoring

Monitoring Requirements

5.7 Additional Water Quality Monitoring shall be carried out at River Beas, River Indus and near Siu Hang San Tsuen Stream three days per week at all designated monitoring stations during the construction period. The measurement period are during the construction site drainage along River Beas, construction of footbridge across River Beas and during construction of bridge across River Indus.

5.8 Replicate in-situ measurement and samples from each independent sampling event were collected to ensure a robust statistically interpretable database. DO, temperature, turbidity and pH were measured in-situ whereas SS and arsenic were determined by an accredited laboratory. Other relevant data, including monitoring location / position, time, water depth, weather conditions and any special phenomena or work underway at the construction site were recorded.

5.9 For all the monitoring stations, sampling were taken at 3 water depths, namely 1m below the water surface, mid depth and 1m above the river bed. For stations that were less than 3m in depth, only the mid depth sample was taken. Should the water depth was less than 6m, in which case the mid-depth station may have been omitted. The interval between two sampling surveys was not less than 36 hours.

5.10 **Appendix B** shows the established Action and Limit Levels for the environmental monitoring works.

Monitoring Locations

5.11 Additional impact water quality monitoring was conducted at 6 monitoring stations (SYR-CS1, SYR-IS1, NTR-CS1, NTR-IS1, SHST-IS2, MWR-IS3) which are summarised in **Table 5.2**. The location of monitoring stations is shown in **Figures 5** and **6**.

Table 5.2 Additional Water Quality Monitoring Stations

Station	Description	Locations	Measurement Periods
River Beas			
SYR-CS1	Control Station	Upstream of river	During the construction site drainage along River Beas and construction of the footbridge across River Beas
SYR-IS1	Impact Station	Downstream of river	
River Indus and near Siu Hang San Tsuen Stream			
NTR-CS1	Control Station	Upstream of river	During construction of the bridge across River Indus
NTR-IS1	Impact Station	Downstream of river	
SHST-IS2	Impact Station	Water sensitive receiver at near Siu Hang San Tsuen Stream	
MWR-IS3	Impact Station	Water sensitive receiver at near Ma Wat River	

Monitoring Equipment

Instrumentation

5.12 Multi-parameter meters (Model YSI EXO) were used to measure DO, turbidity, salinity, pH and temperature.

Dissolved Oxygen (DO) and Temperature Measuring Equipment

5.13 The instrument for measuring dissolved oxygen and temperature should be portable and weatherproof complete with cable, sensor, and use DC power source. The equipment was capable of measuring:

- A dissolved oxygen level in the range of 0-20mg/L and 0-200% saturation; and
- The temperature within 0-45 degree Celsius.

5.14 The equipment had a membrane electrode with automatic temperature compensation complete with a cable.

5.15 Sufficient stocks of spare electrodes and cables were available for replacement where necessary.

5.16 Salinity compensation was built-in in the DO equipment. *In-situ* salinity was measured to calibrate the DO equipment prior to each DO measurement.

Turbidity

5.17 Turbidity was measured *in situ* by using the nephelometric method. The instrument was portable and weatherproof using a DC power sources complete with cable, sensor and comprehensive operation manuals. The equipment was capable of measuring turbidity between 0-1000 NTU. The probe cable was not less than 25m in length. The meter was calibrated in order to establish the relationship between NTU units and the levels of Suspended Solids.

Salinity

5.18 A portable salinometer capable of recording salinity within the range of 0-40 parts per thousand (ppt) was used for salinity measurement.

Water Depth Detector

5.19 A portable, battery-operated and hand held echo sounder was used for the determination of water depth at each designated monitoring station.

pH

5.20 The instrument consisted of a potentiometer, a glass electrode, a reference electrode and a temperature-compensating device. It was readable to 0.1pH in a range of 0 to 14. Standard buffer solutions of at least pH 7 and pH 10 were used for calibration of the instrument before and after use.

Water Sampling for Laboratory Analysis

5.21 A water sampler, consisting of a transparent Polyvinyl Chloride (PVC) of a capacity of not less than two litres which can be effectively sealed with cups at both ends was used. The water sampler had a positive latching system to keep it open and prevent premature closure until released by a messenger when the sampler was at the selected water depth. In addition, a sampling cup attached to a fixed or extendable rod was also used for sampling at the monitoring stations with swallow water.

Sample Container and Storage

5.22 Following collection, water samples for laboratory analysis were stored in high density polyethylene bottles with appropriate preservatives added, packed in the ice (cooled to 4°C without being frozen). The samples were delivered to WELLAB Limited (HOKLAS Registration No. HOKLAS083) and analysed as soon as possible after collection of the water samples. Sufficient volume of samples was collected to achieve the detection limit.

Calibration of In Situ Instruments

5.23 The pH meter, DO meter and turbidimeter were checked and calibrated before use. DO meter and turbidimeter were certified by WELLAB Limited before use and subsequently re-calibrated at quarterly basis throughout all stage of water quality monitoring programme. Response of sensors and electrodes were checked with certified standard solutions before each use. Wet bulb calibration for a DO meter was carried out before measurement at each monitoring station.

5.24 For on-site calibration of field equipment (Multi-parameter Water Quality System), the standard BS 1427:2009 “Guide to on-site test methods for analysis of waters” was observed.

Back-up Equipment

5.25 Sufficient stocks of spare parts were maintained for replacements when necessary. Backup monitoring equipment was also be made available so that monitoring could proceed uninterrupted even when some equipment was under maintenance, calibration, etc.

5.26 **Table 5.3** summarises the equipment used in the water quality monitoring programme. Copies of the calibration certificates of the multi-parameter water quality systems are shown in **Appendix C**.

Table 5.3 Water Quality Monitoring Equipment

Equipment	Model and Make	Qty.
Water sampler and sampling cup	A 2-Litre transparent PVC cylinder with latex cups at both ends and sampling cup for monitoring stations with swallow water	1
Sonar Water Depth Detector	Garmin Striker plus 4	1
Multi-parameter Water Quality System	YSI EXO 1	2

Monitoring Parameters and Frequency

5.27 **Table 5.4** summarises the monitoring parameters and frequencies of the additional water quality monitoring. The water quality monitoring schedule for the reporting month is shown in **Appendix D**.

Table 5.4 Additional Water Quality Monitoring Parameters and Frequency

Monitoring Station(s)		Parameters, unit	Depth	Frequency
River Beas	SYR-CS1 SYR-IS1	• Temperature (^{o}C) • pH (pH unit) • Turbidity (NTU) • Water depth (m) • Salinity (ppt) • Dissolved Oxygen (DO) (mg/L and % of saturation) • Suspended Solids (SS) (mg/L) • Arsenic (As) (µg/L)	• 3 water depths: 1m below water surface, mid-depth and 1m above river bed. • If the water depth was less than 3m, mid-depth sampling only. • If water depth was less than 6m, mid-depth might be omitted.	3 days per week
River Indus and near Siu Hang San Tsuen Stream	NTR-CS1 NTR-IS1 SHST-IS2 MWR-IS3	• Temperature (^{o}C) • pH (pH unit) • Turbidity (NTU) • Water depth (m) • Salinity (ppt) • Dissolved Oxygen (DO) (mg/L and % of saturation) • Suspended Solids (SS) (mg/L)		

5.28 Monitoring location and position, time, sampling depth, weather conditions and any special phenomena or work underway nearby was also recorded.

Monitoring Methodology

Instrumentation

5.29 Multi-parameter meters (Model YSI EXO) were used to measure DO, turbidity, salinity, pH and temperature.

Operating/Analytical Procedures

5.30 At each measurement, two consecutive measurements of DO concentration, DO saturation, salinity, turbidity, pH and temperature were taken. The probes were retrieved out of the water after the first measurement and then re-deployed for the second measurement. Where the difference in the value between the first and second readings of each set was more than 25% of the value of the first reading, the reading was discarded and further readings were taken.

Laboratory Analytical Methods

5.31 Duplicate samples from each independent sampling event were required for all parameters. Analysis of suspended solids and arsenic were carried out by WELLAB Ltd. and comprehensive quality assurance and control procedures were in place in order to ensure the quality and consistency in results. The analysis methods and limits of reporting are provided in **Table 5.5.**

Table 5.5 Method for Laboratory Analysis for Water Samples

Determinant	Proposed Method	Limit of Reporting
Total Suspend Solids (SS)	APHA 17ed 2540 D	2.5 mg/L
Arsenic (As)	In-house method SOP022 (ICP-AES) and SOP076 (ICP-MS)	1 µg/L

QA/QC Requirements

Decontamination Procedures

5.32 Water sampling equipment used during the course of the monitoring process was decontaminated by manual washing and rinsed with distilled water after each sampling event. All of the disposal equipment was discarded after the sampling.

Sampling Management and Supervision

5.33 All sampling bottles were labelled with the sample I.D. (including sampling station), laboratory number and sampling date. Water samples were dispatched to the testing laboratory for analysis as soon as possible. All the collected samples were stored in a cool box to keep the temperature less than 4°C but without frozen. All water samples were handled under chain of custody protocols and relinquished to the laboratory representatives at locations specified by the laboratory.

Quality Control Measures for Sample Testing

5.34 The samples testing and following QC programmes were performed by WELLAB Ltd. for every batch of 20 samples:

- One method blank; and
- One set of QC sample.

Results and Observations

5.35 All additional water quality monitoring was conducted as scheduled in the reporting month. The water quality monitoring schedule for this reporting month is shown in **Appendix D**.

5.36 The monitoring results and graphical presentation of additional water quality monitoring are shown in **Appendix G**.

5.37 The summary of exceedance record in the reporting month is shown in **Appendix O** and summarised in the **Table 5.6**.

Table 5.6 Summary of Water Quality Exceedances

Station	Exceedance Level	DO	Turbidity	SS	Arsenic	Total number of Non-project Related Exceedances	Total number of project Related Exceedances
SYR-IS1	Action Level	0	0	0	0	0	0
	Limit Level	1	0	0	0	1	0
NTR-IS1	Action Level	0	0	0	N/A	0	0
	Limit Level	1	0	0		1	0
SHST-IS2	Action Level	0	0	0		0	0
	Limit Level	2	2	0		4	0
MWR-IS3	Action Level	0	0	0		0	0
	Limit Level	2	1	0		3	0
Total	Action Level	0	0	0	0	0	0
	Limit Level	6	3	0	0	9	0

* Exceedances record date: 22/04/2025, 24/04/2025

Six (6) Limit Level for DO, three (3) Limit Level for turbidity of impact water quality monitoring were recorded. Exceedances were recorded on 22 and 24 April 2025. After investigation, all the exceedance at SYR-IS1, NTR-IS1, SHST-IS2 and MWR-IS3 were considered caused by other external factors rather than the contract works due to the following reasons:

1. No pollution discharge was observed from land-based site area;
2. Oil and influx of muddy water from upstream of the Ma Wat River not related to the Project works was observed by monitoring team while sampling;
3. Water mitigation measures at the nearby construction sites were observed implemented properly; and
4. Control Station's DO value already exceed the Action or Limit Levels.

Event and Action Plan

5.38 Should any non-compliance of the criteria occur, actions in accordance with the Event/Action Plan in **Appendix N** shall be carried out.

6. LAND CONTAMINATION (AMBIENT ARSENIC MONITORING)

Monitoring Requirements

6.1 According to Section 7.5 of the updated EM&A Manual, an ambient arsenic monitoring is required to be conducted in KTN during the clean-up processes of arsenic containing soil and the construction phase.

6.2 The Respirable Suspended Particulate (RSP, or PM10) was measured by High Volume Sampler (HVS) equipped with PM10 selector following the "Reference Method for the Determination of Particulate Matter as PM10 in the Atmosphere" Part 50 Chapter 1 Appendix J, Title 40 of the Code of Federal Regulations of the USEPA.

6.3 The Dust-laden air was drawn through PM10 HVS fitted with a conditioned pre-weighting filter paper, at a controlled rate. After sampling for 24-hour (details on measurement period are provided in Section 9.5.5), the filter paper with retained PM10 particulates was collected and returned to the laboratory for drying in a desiccators followed by accurate weighting. 24-hour average RSP levels were calculated from the ratio of the mass of PM10 particulates retained on the filter paper to the total volume of air sampled.

6.4 The weighted filter paper was prepared for arsenic testing through a "Hot Acid Extraction Procedure". The extracted material was tested for arsenic by using Inductively Coupled Plasma/Mass Spectrometry (ICP/MS). The extraction and testing was referenced to the following methods:

- Compendium Method 1O-3.1 Selection, Preparation and Extraction of Filter Material, Center for Environmental Research Information, Office of Research and Development, USEPA, June 1999; and
- Compendium Method 1O-3.5 determination of Metals in Ambient Particulate Matter using Inductively Coupled Plasma/Mass Spectrometry (ICP/MS., Center for Environmental Research Information, Office of Research and Development, USEPA, June 1999.

Monitoring Location

6.5 Ambient arsenic monitoring was conducted at the monitoring station(s) under the Work Contract(s), as shown in **Figure 5**. **Table 6.1** describes the location of the ambient arsenic monitoring station.

Table 6.1 Location of Ambient Arsenic Monitoring station

EP. No	Contract No.	Monitoring Stations	Location
EP-466/2013/A EP-467/2013/A EP-468/2013/A	ND/2019/01	KTN-DMS-4A[1]	Temporary Structure at Pak Shek Au
EP-468/2013/A	ND/2019/03		

Remark:
[1]: Monitoring at the original location of KTN-DMS-4 (originally proposed in the approved EM&A Manual) was denied as there was no electricity supply. An alternative location (KTN-DMS-4A) was proposed.

Monitoring Equipment

6.6 **Table 6.2** summarises the equipment used in the ambient arsenic monitoring. Copies of calibration certificates are attached in **Appendix C**.

Table 6.2 Ambient Arsenic Monitoring Equipment

Monitoring Stations	Equipment	Model and Make	Quantity
KTN-DMS-4A	Calibrator	TISCH Model: TE-5025A	1
	HVS Sampler (RSP)	TISCH Model: TE-6070X	1

Monitoring Parameters, Frequency and Duration

6.7 **Table 6.3** summarises the monitoring parameters and frequencies of ambient arsenic during the clean-up processes of arsenic-containing soil and construction. The ambient arsenic monitoring schedule for the reporting month is shown in **Appendix D**.

Table 6.3 Impact Ambient Arsenic Monitoring Parameters, Frequency and Duration

Parameters	Frequency
24-hr RSP (Ambient Arsenic)	Once/ 6 days

Monitoring Methodology and QA/QC Procedure

24-hour RSP Monitoring

Instrumentation

6.8 High volume samplers (HVS) (GMW PM10 (TE6070X)) complete with appropriate sampling inlets was employed for 24-hour RSP monitoring. The sampler was composed of a motor, a filter holder, a flow controller and a sampling inlet and its performance specification complied with that required by USEPA Standard Title 40, Code of Federation Regulations Chapter 1 (Part 50).

6.9 The following guidelines were adopted during the installation of HVS:

- a horizontal platform with appropriate support to secure the samplers against gusty wind was provided;
- no two samplers was placed less than 2 meters apart;
- the distance between the sampler and an obstacle, such as buildings, was at least twice the height that the obstacle protrudes above the sampler;
- a minimum of 2 meters of separation from walls, parapets and penthouses was required for rooftop samplers;
- a minimum of 2 meters separation from any supporting structure, measured horizontally was required;
- no furnace or incinerator flue was nearby;
- airflow around the sampler was unrestricted;
- the sampler was more than 20 meters from the dripline;
- any wire fence and gate, to protect the sampler, were not cause any obstruction during monitoring;
- permission was obtained to set up the samplers and to obtain access to the monitoring stations; and
- a secured supply of electricity was needed to operate the samplers.

Operating/analytical procedures for the operation of HVS

- Prior to the commencement of the dust sampling, the flow rate of the high volume sampler was properly set (between 1.1 m^3/min. and 1.4 m^3/min.) in accordance with the manufacturer's instruction to within the range recommended in USEPA Standard Title 40, CFR Part 50.
- The power supply was checked to ensure the sampler worked properly. On sampling, the sampler was operated for 5 minutes to establish thermal equilibrium before placing any filter media at the designated air monitoring station.
- The filter holding frame was then removed by loosening the four nuts and a weighted and conditioned filter was carefully centered with the stamped number upwards, on a supporting screen.
- The filter was aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter. The filter holding frame was then tightened to the filter holder with swing bolts. The applied pressure was sufficient to avoid air leakage at the edges.
- The shelter lid was closed and secured with the aluminum strip.
- The timer was then programmed. Information was recorded on the record sheet, which included the starting time, the weather condition and the filter number (the initial weight of the filter paper can be found out by using the filter number).
- After sampling, the filter was removed and sent to the Wellab Ltd. for weighing. The elapsed time was also recorded.
- Before weighing, all filters were equilibrated in a conditioning environment for 24 hours. The conditioning environment temperature was between 25°C and 30°C and did not vary by more than ±3°C; the relative humidity (RH) was < 50% and did not vary by more than ±5%. A convenient working RH was 40%. Weighing results were further analysis of RSP concentrations collected by each filter.

Maintenance/Calibration

6.10 The following maintenance/calibration was required for the HVS:

- The high volume motors and their accessories were properly maintained. Appropriate maintenance such as routine motor brushes replacement and electrical wiring checking were made to ensure that the equipment and necessary power supply were in good working condition.
- High volume samplers were calibrated at bi-monthly intervals using TE-5025A Calibration Kit throughout all stages of the ambient arsenic monitoring.

Laboratory Measurement / Analysis

6.11 Quartz filters of size 8” x 10” were labelled before sampling. A HOKLAS accredited laboratory, Wellab Ltd., was responsible for the preparation of 24-hour conditioned and pre-weighed filter papers for the monitoring team. The balance for weighting filter paper was regularly calibrated against a traceable standard.

6.12 All filters, which were prepared by Wellab Ltd., were equilibrated in the conditioning environment for 24 hours before weighing. The conditioning environment temperature was around 25 °C and not variable by more than ±3 °C; the relative humidity (RH) was < 50% and not variable by more than ±5%. A convenient working RH was 40%.

6.13 Wellab Ltd. (HOKLAS Registration No. HOKLAS083), was responsible for the extraction and testing procedure for Arsenic and comprehensive quality assurance and quality control programmes were conducted.

Results and Observations

6.14 The ambient arsenic monitoring results are summarised in **Table 6.4**. Detailed monitoring results and test report are shown in **Appendix E**.

Table 6.4 Summary Table of 24-hour RSP Monitoring Results (Ambient Arsenic) during the Reporting Month

Monitoring Date	Monitoring Station	Concentration (ng/m^3)	Action Level (ng/m^3)	Limit Level, (ng/m^3)
02/04/2025	KTN-DMS4(A)	4.48	9.36	11.7
07/04/2025		5.60		
11/04/2025		4.93		
16/04/2025		6.11		
22/04/2025		4.79		
28/04/2025		4.12		

6.15 All ambient arsenic monitoring was conducted as scheduled in the reporting month. During the reporting month, 59.5m^3 of arsenic soil transported to soil treatment plant and 0m^3 treated. No Action/Limit Level exceedances were recorded.

Event and Action Plan

6.16 Should any non-compliance of the criteria occur, actions in accordance with the Event/Action Plan in **Appendix N** shall be carried out.

7. LANDFILL GAS MONITORING

Monitoring Requirement

7.1 In accordance with the updated EM&A Manual, monitoring of landfill gas (LFG) is required for the construction works within the Ma Tso Lung Landfill (MTLL, close to KTN NDA) during the construction phase. This section presents the results of landfill gas measurements performed by the Contractor. **Appendix B** shows the Limit Levels for the monitoring works.

7.2 The MTLL is situated in the vicinity of the KTN NDA. A portion of the development falls within the MTLL and its 250m Consultation Zone.

Monitoring Parameters and Frequency

7.3 Monitoring parameters for Landfill gas monitoring include Methane, Carbon dioxide and Oxygen.

7.4 According to the mitigation measures of the updated EM&A Manual, measurements of the following frequencies should be carried out according to the monitoring requirements and procedures specified in Paragraphs 8.23 to 8.28 of EPD's Guidance Note, “LANDFILL GAS HAZARD ASSESSMENT GUIDANCE NOTE”.

7.5 The frequency of monitoring of LFG was made reference to the updated EM&A Manual - Monitoring of any LFG which may be migrated to the site should be undertaken during construction of the infrastructure and the development within the Consultation Zone and within MTLL when the works involve confined spaces. Routine gas monitoring should be undertaken during groundwork construction and in all excavations. Monthly gas monitoring should also be conducted for set up on site such as offices, stores etc.

Monitoring Locations

7.6 Monitoring of oxygen, methane and carbon dioxide was performed for the construction of infrastructure and the development within the Consultation Zone and within MTLL when the works involved confined spaces. In this reporting month, the area required to be monitored for landfill gas are shown below and **Figure 8** shows the landfill gas monitoring locations.

- Excavation Locations: Portion 6b
- Manholes and Chambers: N/A
- Relocation of monitoring wells: N/A
- Any other Confined Spaces: Containers in Portion 6b

Monitoring Equipment

7.7 **Table 7.1** summarises the equipment employed by the Contractor for the landfill gas monitoring.

Table 7.1 Landfill Gas Monitoring Equipment

Equipment	Model and Make	Quantity
Landfill Gas Analyser	Geotech / GA5000 (Serial No./ Equipment No.: G501744)	1

Results and Observations

7.8 In the reporting month, landfill gas monitoring was carried out by the Contractor on 1 occasion at 6 monitoring stations. No Limit Level exceedance for landfill gas monitoring was recorded in the reporting month. The monitoring results are provided in **Appendix J**. Copies of calibration certificates are attached in **Appendix C**.

Event and Action Plan

7.9 Should any non-compliance of the criteria occur, actions in accordance with the Event/Action Plan in **Appendix N** would be carried out.

8. BUILT HERITAGE MONITORING

Monitoring Requirement

8.1 In accordance with the updated EM&A Manual, baseline condition survey and baseline vibration impact assessment shall be conducted for identified built heritage prior to the commencement of construction works. Baseline condition survey and baseline vibration impact assessment shall be conducted by a qualified building surveyor or qualified structural engineer to define the vibration limit (a vibration limit at 7.5mm/s and 15mm/s could be adopted for graded historical buildings and historical buildings respectively) and to evaluate if construction vibration monitoring and structural strengthening measures are required during construction phase to ensure the construction performance meets the vibration standard stated in the EIA report.

8.2 According to the condition survey report from cultural heritage condition survey for Fanling Bypass Eastern Section under EP-473/2013/A, a vibration monitoring plan was proposed for the surveyed cultural heritage based on the Buildings Department's Practice Note (PNAP) APP-137. For Castle Peak Road Diversion under EP-466/2013/A, Kwu Tung North New Development Area Road D1 to D5 under EP-468/2013/A, a vibration monitoring plan was proposed for the surveyed cultural heritage, the Alert/Alarm/Action (3As) levels was adopted as recommended by the Antiquities and Monuments Office (AMO). This section presents the results of built heritage monitoring performed by the Contractor according to the proposed monitoring plan in baseline condition survey report. **Appendix B** shows the Limit Levels for the monitoring works.

Monitoring Location

8.3 In the reporting month, no construction vibration monitoring was conducted for built heritage when no pile driving operation was conducted within assessment area of the construction works. The location of the construction vibration monitoring stations was summarised in **Table 8.1** and shown in **Appendix K**.

Table 8.1 Location of Construction Vibration Monitoring

EP. No	Contract No.	Monitoring Station (s)	Nature of Cultural Heritage	Location (s)
NIL	NIL	NIL	NIL	NIL

Monitoring Parameters and Frequency

8.4 **Table 8.2** summarises the vibration monitoring plan for surveyed cultural heritage under the Works Contracts. Vibration monitoring was conducted for surveyed built heritage when pile driving operation was conducted within the assessment area of construction works.

Table 8.2 Vibration Monitoring Plan

EP. No	Contract No.	Monitoring Stations	Distance with Construction Works	Monitoring Plan
NIL	NIL	NIL	Within 50m	Daily assessment is required
			Within 75m	Bi-daily assessment is required
			Within 100m	Weekly assessment is required

Remark:
[1] Baseline condition survey was conducted for built heritage features at G202, G203, G303, G308, HKT03 and KT57 under EP-468/2013/A, also HFL08, FL05, FL07, FL08, FL10, FL11, FL17, FL19, FL31 and FL33 under ND/2019/04, and HFL05, FL02, FL04, FL24, FL27 and

FL36 under ND/2019/05 for EP-473/2013/A. As G202, G203, G303, G308, HKT03, KT57, HFL05, HFL08, FL02, FL04, FL05, FL07, FL08, FL10, FL11, FL17, FL19, FL24, FL27, FL31, FL33 and FL36 were not within the assessment area of the related construction work, no construction vibration monitoring was conducted for the built heritage in the reporting month.

8.5 The construction vibration monitoring is planned to be conducted throughout each event of the pile driving operation on daily / bi-daily / weekly basis. The effect of ground-borne vibration from piling works on the surveyed built heritage was assessed by the maximum peak particle velocity (ppv), which was obtained from the maximum value of measurement of all pile driving operation events.

Monitoring Equipment

8.6 No copies of calibration certificates of the monitoring equipment employed by the Contractor of the construction vibration monitoring are attached in **Appendix C** since no vibration monitoring was conducted in the reporting period.

Results and Observations

8.7 In the reporting month, no construction vibration monitoring was carried out by the Contractor for the built heritage features when no pile driving operation was conducted within 50m / 75m / 100m respectively. No Limit Level exceedance for construction vibration monitoring was recorded in the reporting month. The monitoring results, if any, are provided in **Appendix K**.

Event and Action Plan

8.8 **Table 8.3** summarises the vibration limits for construction vibration monitoring for surveyed cultural heritage under **ND/2019/04** and **ND/2019/05**, based on the Building Department's Practice Note (PNAP APP-137).

Table 8.3 Vibration Limits for Construction Vibration Monitoring (PNAP APP-137)

Type of Building	Guide Values of Maximum ppv* (mm/Sec)	
	Transient Vibration	Continuous Vibration
Vibration-sensitive / dilapidated buildings#	7.5	3.0
Declared monuments/ Historical structures	3.0	

Remarks:
* peak particle velocity
# as cultural heritages are sensitive receivers, vibration monitoring should be classified as vibration-sensitive

8.9 **Table 8.4** summarises the vibration limits for construction vibration monitoring for surveyed cultural heritage under **ND/2019/02**, based on the Alert/Alarm/Action (3As) levels as recommended by the Antiquities and Monuments Office (AMO).

Table 8.4 Vibration Limits for Construction Vibration Monitoring (3As)

Buildings to be monitored	Guide Values (mm/Sec)		
	Alert	Alarm	Action
Vibration (ppv*)	5	6	7.5

Remarks:
* peak particle velocity

8.10 If any exceedance of limits is found or damage to either structural or non-structural elements of the historic buildings is identified, the construction works should be stopped immediately and structural engineer's advices should be sought for any remedial work.

9 ECOLOGICAL MONITORING

Monitoring of Measures to Minimise Disturbance to Water Birds in Ng Tung River, Sheung Yue River, Shek Sheung River and Long Valley

Monitoring Requirements and Protocol

9.1 As required under Section 12.3.2.5 of the Updated EM&A Manual, where development under the NDAs project is undertaken within 200m (the maximum distance at which it is predicted there may be some disturbance, and hence a reduction in numbers of large waterbirds) of Sheung Yue River and Long Valley, weekly transect at both high and low tides should be followed (It is considered high tide when the tidal levels are above 1.5m and low tide when the tidal levels are below 1.5m at Tsim Bei Tsui Station).

9.2 The purpose of the survey is to identify and enumerate all bird species utilizing the river channels and Long Valley Nature Park (LVNP) and identify any sources of actual or potential disturbance to birds due to construction activities throughout the construction period according to the methodology specified in Table 12.1 in the Updated EM&A Manual.

9.3 Monitoring in Long Valley followed the methodology adopted by the regular HKBWS bird monitoring programme in order to obtain comparable results and a complete coverage of the area in the shortest possible time.

Monitoring Frequency

9.4 High tide and low tide avifauna monitoring was required to be carried out on a weekly basis. Additional night-time avifauna monitoring in Long Valley was required to be carried out twice monthly from September to April.

Date of avifauna monitoring:	1, 3, 8, 10, 14, 15, 23, 24, 28 and 29 April 2025
Date of night-time monitoring:	15 and 29 April 2025

Monitoring Location

9.5 The avifauna monitoring was carried out at Ng Tung River, Sheung Yue River and Long Valley in the reporting month according to the construction programme. The transect routes in the reporting month were as follows:

- T1. Ng Tung River
- T2. Ng Tung River
- T3. Sheung Yue River
- T5. Long Valley

9.6 As the sensitive receivers (large waterbirds) were easily visible, the transect route only needed to follow one bank of the rivers.

9.7 The location of Transects T1, T2, T3 and T5 is shown in **Figure 9** for reference.

Monitoring Parameters

9.8 The monitoring parameters and survey methodology for each transect are described below:

- Abundance of birds
- Types of habitat of which birds in use
- Notable bird behaviours such as roosting, feeding, nesting and presence of juveniles
- Birds heard through birdcalls that could not be located were marked as "heard", while birds flying over the survey area were marked as "flight". Species of conservation significance were specified.

9.9 Other information at the time of survey such as weather condition, tidal condition, tide level and noticeable natural or anthropogenic activities were documented.

9.10 For Avifauna survey, Ornithological nomenclature would make reference to The Avifauna of Hong Kong (Carey *et al*. 2001), The Birds of Hong Kong and South China (Viney *et al*. 2005), and the most recent updated list from other sources (e.g. Hong Kong Bird Watching Society).

Monitoring Results

9.11 In total, 63 species of birds were recorded during the bird surveys within assessment area. Among the recorded birds, there were 26 species of waterbirds. The detailed list of waterbirds and all recorded birds are shown in **Appendices L1m and L1n** respectively.

9.12 Among the four transects, transect T5 had a higher species diversity and abundance due to its diverse habitat types within Long Valley. Species such as *Ardeola bacchus* and *Egretta garzetta* were commonly found roosting and foraging at wetland habitats such as agricultural lands and shallow water habitats.

9.13 Along transect T5 in Long Valley, species with conservation interest such as *Himantopus himantopus*, which is a passage migrant, was commonly observed in shallow water habitats. Juvenile *Himantopus himantopus* was also observed in the reporting month. Greater Painted-Snipe *Rostratula benghalensis* of Local Concern was also observed in shallow water habitat in the reporting month.

9.14 All outstanding works with defect rectification under the ND/2019/03 have been completed on 28 March 2025. Therefore, no site works were observed in T5 in the reporting month.

9.15 Transect T3 was conducted along Sheung Yue River. Bird species such as *Ardeola bacchus*, *Ardea alba* and *Egretta garzetta* were commonly observed feeding and roosting on the river bank and river bed. Construction works were observed beside Sheung Yue River.

9.16 Transects T1 and T2 are located at Ng Tung River. *Ardeola bacchus*, *Ardea alba* and *Egretta garzetta* were also commonly found feeding and roosting along the Ng Tung River. Fishing activities were observed at both T1 and T2. Potential anthropogenic sources of disturbance observed along T1 and T2 including the usage of remote-control boats.

9.17 Avifauna monitoring in construction phase was conducted during the reporting month and the detailed results are attached in **Appendix L1**.

9.18 **Table 9.1** summarises the avifauna monitoring results during the reporting month.

Table 9.1 Summary Table of Avifauna Monitoring Results to Corresponding Action and Limit Levels.

Monitoring Parameter	Result in Reporting Month	Baseline Level in Corresponding Month	Action Level	Limit Level
Mean abundance of large water birds* using Ng Tung River, Sheung Yue River and Shek Sheung River	71	19	13	9
Mean abundance of *Ardeola bacchus* using Ng Tung River, Sheung Yue River and Shek Sheung River	13	15	10	7
Mean Abundance of Bird recorded in LVNP	658	496	347	248
Mean Abundance of *Ardeola bacchus* recorded in LVNP	12	12	8	6
Environmental disturbance and damage from activities in LVNP	-	-	Activity likely to cause unacceptable environmental disturbance or damage noted in LVNP.	Activity causing unacceptable environmental disturbance or damage noted in LVNP.
*Note Large Waterbirds includes: *Ardea alba*, *Ardea cinerea*, *Egretta eulophotes*, *Egretta garzetta*, *Ardea intermedia* and *Phalacrocorax carbo*				

9.19 No Action or Limit Level exceedance in avifauna monitoring was recorded during the reporting month.

Monitoring of Measures to Minimise Impacts to Ma Tso Lung Stream and Siu Hang San Tsuen Stream, and Long Valley

Monitoring Requirements and Protocol

9.20 As required under Section 12.3.2.14 of the Updated EM&A Manual, aquatic faunal monitoring should be carried out during the construction phase.

9.21 Larger organisms such as fish should be monitored by direct counting, while kick-netting and sweep-netting should be used for invertebrate sampling. There should be three replicates for invertebrate sampling at each sampling point. For kick-netting, the net should be placed with the opening facing the water current, and the substrate should be disturbed by kicking to dislodge organisms from the stream bed. Sweep-netting should be conducted when kick-netting is not feasible, such as in area with no water current. Small organisms that could not

be identified with naked eye should be brought to the laboratory for identification under the dissecting microscope.

Monitoring Frequency

9.22 Quantitative aquatic fauna replicate surveys of stream fauna was required to be carried out on a monthly basis only during wet season. Three replicates for invertebrates sampling and direct counting of fish fauna should be performed respectively.

Monitoring Location

9.23 During wet season, the monitoring locations required to be carried out in Ma Tso Lung Stream are as follow:

- MS_01
- MS_02
- MS_03
- MS_04
- MS_05
- MS_06
- MS_07
- MS_08
- MS_09
- MS_10
- MS_11
- MS_12
- MS_13
- MS_14
- MS_15

9.24 The location of monitoring stations is shown in **Figure 10** for reference.

Monitoring Parameters

9.25 The monitoring parameters and survey methodology for each monitoring station are described below:

- Species composition
- Abundance
- Distribution for invertebrates and fish fauna
- Species of conservation significance would be specified

9.26 Other information at the time of survey such as weather conditions and noticeable natural or anthropogenic activities were recorded.

Monitoring Status

9.27 According to the Updated EM&A Manual, quantitative aquatic fauna replicate surveys of stream fauna is required to be carried out on monthly basis during wet season.

9.28 In the survey of aquatic fauna, a total of 28 aquatic invertebrate species were recorded in Ma Tso Lung Stream and Siu Hang San Tsuen Stream. There were 5 fish species recorded in the reporting month. One introduced species of conservation importance was recorded, which is an introduced species namely *Oreochromis mossambicus*. In addition, one native species of local concern, namely *Megalogomphus sommeri* was also recorded.

9.29 For the monitoring on 25th April 2025, three monitoring stations, MS_01, MS_05 & MS_12, were found dried-up. No aquatic invertebrate nor fish species was recorded in those stations.

9.30 Aquatic faunal monitoring in construction phase was conducted during the reporting month and the results are attached in **Appendices L2 to L3.**

9.31 **Table 9.2 and Table 9.3** summarises the aquatic monitoring results during the reporting month.

Table 9.2 Summary Table of Aquatic Macroinvertebrates Monitoring Results to Corresponding Action and Limit Levels.

Number of Native Species Recorded in Stations: MS_01 - MS_15	Result in Reporting Month	Baseline Level in Corresponding Month	Action Level	Limit Level
MS_01	0	0	NA	NA
MS_02 & MS_03	2	3	2	1
MS_04, MS_06 & MS_07	9	5	4	3
MS_05	0	0	NA	NA
MS_08, MS_09 & MS_10	6	5	4	3
MS_11	0	0	NA	NA
MS_12	0	0	NA	NA
MS_13 & MS_14	4	3	2.1	1
MS_15	2	0	NA	NA

Table 9.3 Summary Table of Fish Monitoring Results to Corresponding Action and Limit Levels.

Number of Native Species Recorded in Stations: MS_01 - MS_15	Result in Reporting Month	Baseline Level in Corresponding Month	Action Level	Limit Level
MS_01	0	0	NA	NA
MS_02 & MS_03	0	1	NA	NA
MS_04, MS_06 & MS_07	0	2	NA	1
MS_05	0	0	NA	NA
MS_08, MS_09 & MS_10	0	2	NA	1
MS_11	0	0	NA	NA
MS_12	0	0	NA	NA
MS_13 & MS_14	0	1	NA	NA
MS_15	0	0	NA	NA

9.32 Two (2) Limit Level exceedance was recorded during the reporting month during monitoring of aquatic fauna.

Monitoring of Measures to Minimise Impacts on Ecological Sensitive Habitats from Disturbance and Pollution

Monitoring Requirements and Protocol

9.33 As required under Section 12.3.2.17 of the Updated EM&A Manual, monitoring of measures to minimise impacts should be carried out during the construction phase.

9.34 The purpose of survey is to monitor the effectiveness of measures to minimise impacts on ecologically sensitive habitats from disturbance and pollution by standard faunal transect surveys.

Mammal survey

9.35 Mammal survey should be performed during both day and night times, in areas along the transect routes which may potentially be utilized by terrestrial mammals. Field signs such as droppings, footprints, diggings and burrows left by larger terrestrial mammals should be observed. Mammals directly observed should be recorded, and identification should be made as accurate as possible form the field signs observed.

9.36 Bat survey should be conducted along the transect routes shortly after sunset, with the use of a bat detector to record the echolocation calls. The relative abundance of the species encountered should be estimated with reference to the baseline monitoring results, i.e. using a scale from one (species recorded within transect routes) to three (dominant species within transect routes), for comparison between baseline results and the current monitoring results. Nomenclature of mammal should be based on Shek (2006).

Herpetofauna survey (Amphibians and Reptiles)

9.37 Both day-time and night-time amphibian surveys should be conducted whenever possible following or during periods of rainfall, focusing on areas suitable for amphibians (e.g. forest, shrublands, grasslands, streams, ponds, marshes, etc.). Calling amphibians should be recorded, supplemented by visual observation of eggs, tadpoles, adult frogs, and toads.

9.38 Active searching of appropriate microhabitats such as stones, pond bunds, crevices and leaf debris should be performed mainly. Observation of exposed, basking and foraging reptiles should also be conducted. Nomenclature of amphibian and reptile should be based on Chan et al. (2005) and Karsen et al. (1998), respectively.

Insect survey (Butterfly and Dragonfly)

9.39 Butterflies and dragonflies observed along the transects should be identified and counted. Preferable habitats of the insects such as watercourses, fishponds, and vegetated areas should be observed with special attention. Nomenclature and protection status of the species should be based on Lo et al. (2005) for butterflies and Tam et al. (2011) for dragonflies.

Monitoring Frequency

9.40 Monitoring surveys of ecological sensitive receivers such as mammals, insects (butterflies and dragonflies), and herpetofauna was undertaken on a monthly basis.

Date of monitoring surveys of ecological sensitive receivers: 7th & 30th April 2025

Monitoring Location

9.41 The transect routes in the reporting month according to the construction works are as follows:

- T1. Ma Tso Lung riparian zone and associated wetland habitats;

- T1. Green belt areas E1-8, D1-8 and G1-3 in KTN NDA;
- T1. AGR one C2-4 and C2-2 in KTN NDA;
- T1. Area north of Ng Tung River;
- T3. Area west of Siu Hang San Tsuen Stream;
- T4. South side of Fanling Highway and Castle Peak Road in the vicinity of Pak Shek Au;
- T5. Area west and east of the southern limit of the FLN NDA work area; and
- T6. Areas in the western part of KTN.

9.42 The location of Transects is shown in **Figure 11** for reference.

Monitoring Parameters

9.43 The monitoring parameters and survey methodology for each transect are described below:-

- Species composition
- Abundance
- Distribution for fauna observed
- Species of conservation significance would be specified

Monitoring Results

Mammal

9.44 During the survey, a total of 5 mammal species were recorded from transects. Two (2) species of conservation importance was recorded, namely *Pipistrellus abramus* and *Cynopterus sphinx.*

9.45 Domestic dogs, *Canis lupus familiaris*, were commonly found at T1 and T4, where associated with human settlements, whilst domestic cats, *Felis catus* were found at T1 & T3 and Eurasian Wild Pig, *Sus scrofa* were found at T6 in the reporting month.

9.46 Echolocation calls of bats were recorded with a bat detector. The bat detector would list out possible bat species having similar echolocation calls in pattern and frequency. The structure of the echolocation calls from the recordings was later analysed to identify species as far as possible (the lack of literature on echolocation call structure makes the field identification of some bat species in Hong Kong difficult, and some species could only be identified to genus level, or remain unidentified from the recordings).

9.47 Identification of bat species encountered in the surveys was made with consideration of the possible bat species suggested by the bat detector, the distribution of suggested bat species in Hong Kong, previous records of bat species in the EIA Report and Baseline Monitoring Report, and the structure of echolocation calls of the recordings (including call structure, frequency, duration, inter pulse interval etc., with reference to relevant literatures).

9.48 *Pipistrellus abramus* was recorded with FM/QCF call structure and frequency around 45 kHz to 68 kHz (Ma et al., 2010, p.319). The above characteristics were further compared with data from relevant literatures to confirm the identities. References were also made to Tong (2016).

9.49 Bat species, *Cynopterus sphinx* was observed roosting in the tent-shaped shelter under fronds of Chinese Fan-palm during the monitoring at T1, *Pipistrellus abramus* were recorded in flight at nighttime at all transect.

Herpetofauna (Amphibians and Reptiles)

9.50 Among the transects, a total of ten (10) herpetofauna species were observed. No species of

conservation importance was found. Species including frogs and geckos were recorded near wetland habitats and watercourse. T1 and T5 had the highest species diversity among all transects.

Insects (Butterfly and Dragonfly)

9.51 During the insect survey, a total of thirty-one (31) butterfly species were recorded from transects. One (1) species of butterfly recorded was of particular conservation interest. Transect T1 had recorded the highest butterfly diversity among all transects.

9.52 Ten (10) species of odonata were recorded in the reporting month. No species of odonata recorded was of particular conservation interest. Transect T4 had recorded the highest abundance of odonata among all transects.

9.53 Ecological sensitive receivers such as mammals, insects (butterflies and dragonflies), and herpetofauna monitoring during construction phase was conducted in the reporting month and the results are attached in **Appendices L4 to L7**.

9.54 **Table 9.4** summarises the mammal monitoring results during the reporting month.

Table 9.4 Summary Table of Mammal Monitoring Results to Corresponding Action and Limit Levels.

Number of Native Species Recorded in each transect	Result in Reporting Month	Baseline Level in Corresponding Month	(1) Action Level	(2) Limit Level
T1	2	2	NA	1
T3	2	1	NA	NA
T4	1	1	NA	NA
T5	1	1	NA	NA
T6	2	0	NA	NA

Remark:

Determination of triggering Action / Limit Level since the reporting period of August 2024:

(1) Action Level exceedance occurs when monitoring result is lower than the Action Level.

(2) Limit Level exceedance occurs when monitoring result is lower than the Limit Level. Action Level exceedance will not be counted in this case.

9.55 **Table 9.5** summarises the herpetofauna monitoring results during the reporting month.

Table 9.5 Summary Table of Herpetofauna Monitoring Results to Corresponding Action and Limit Levels.

Number of Native Species Recorded in each transect	Result in Reporting Month	Baseline Level in Corresponding Month	(1) Action Level	(2) Limit Level
T1	8	8	6	4
T3	3	4	3	2
T4	3	4	3	2
T5	8	4	3	2
T6	2	3	2	1

Remark:

Determination of triggering Action / Limit Level since the reporting period of August 2024:

(1) Action Level exceedance occurs when monitoring result is lower than the Action Level.

(2) Limit Level exceedance occurs when monitoring result is lower than the Limit Level. Action Level exceedance will not be counted in this case.

9.56 **Table 9.6** summarises the butterfly monitoring results during the reporting month.

Table 9.6 Summary Table of Butterfly Monitoring Results to Corresponding Action and Limit Levels.

Number of Species Recorded in each transect	Result in Reporting Month	Baseline Level in Corresponding Month	(1) Action Level	(2) Limit Level
T1	26	10	7	5
T3	9	4	3	2
T4	8	6	4	3
T5	10	7	5	4
T6	9	5	4	3

Remark:

Determination of triggering Action / Limit Level since the reporting period of August 2024:

(1) Action Level exceedance occurs when monitoring result is lower than the Action Level.

(2) Limit Level exceedance occurs when monitoring result is lower than the Limit Level. Action Level exceedance will not be counted in this case.

9.57 **Table 9.7** summarises the odonata monitoring results during the reporting month.

Table 9.7 Summary Table of Odonata Monitoring Results to Corresponding Action and Limit Levels.

Number of Native Species Recorded in each transect	Result in Reporting Month	Baseline Level in Corresponding Month	(1) Action Level	(2) Limit Level
T1	5	6	4	3
T3	5	7	5	4
T4	7	3	2	1
T5	4	6	4	3
T6	4	5	4	3

Remark:

Determination of triggering Action / Limit Level since the reporting period of August 2024:

(1) Action Level exceedance occurs when monitoring result is lower than the Action Level.

(2) Limit Level exceedance occurs when monitoring result is lower than the Limit Level. Action Level exceedance will not be counted in this case.

9.58 No Action / Limit Level exceedances were recorded in non-aquatic fauna monitoring during the reporting month.

9.59 For the monitoring conducted on 30th April 2025 at Transect T5, a section of the transect route was found located within a private property and hence not accessible. The inaccessible part are shown in **Photo 1** below. The adjusted accessible transect route is shown in **Figure 11**.

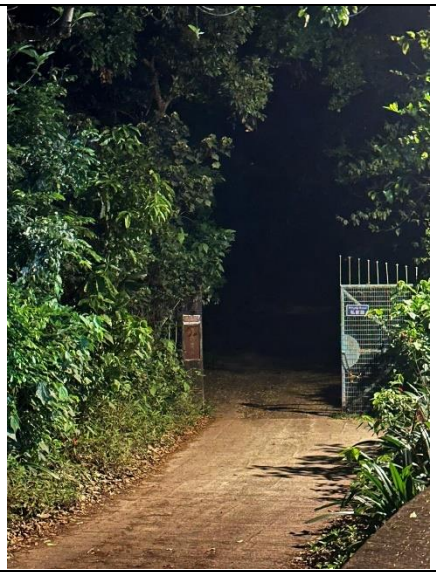

Photo 1. Inaccessible part of transect T5 located within a private property.

Results and Observation

Action and Limit Level Exceedance

9.60 No Action or Limit Level exceedance in avifauna monitoring was recorded during the reporting month.

9.61 Two (2) Limit Level exceedances were recorded at MS_04, MS_06 & MS_07 and MS_08, MS_09 & MS_10 for monitoring of aquatic fauna (fish monitoring) in the reporting month.

9.62 No evidence to suggest that the exceedances recorded for aquatic monitoring were project-related as no potential impact due to the runoff from the construction activities was identified during the survey of Aquatic Fauna in the reporting month. In addition, no deterioration in the water quality due to the construction activities was observed.

9.63 No Action / Limit Level exceedances were recorded in non-aquatic fauna monitoring during the reporting month.

Details of the Influencing Factors

Major Activities

9.64 During the survey of Monitoring of Measures to Minimise Disturbance to Water Birds in Sheung Yue River and Long Valley, anthropogenic activities including soil turning with excavator and other construction activities were observed near Long Valley. Construction works were observed beside Sheung Yue River.

9.65 The Long Valley Nature Park has been opened to public starting from 9 November 2024. The anthropogenic activities may affect the habitat in Long Valley and disturbances to the birds during monitoring.

9.66 During the survey of Monitoring of Measures to Minimise Disturbance to Water Birds in Ng Tung River, anthropogenic activities including construction works beside T2, recreational

usage of remote control boats and helicopters at both T1 and T2, and recreational fishing by fishing rod at both T1 and T2 were observed.

9.67 During the survey of Monitoring of Measures to Minimise Impacts on Ecological Sensitive Habitats from Disturbance and Pollution, construction activities NOT under this Project were observed at T3 and T5.

Weather Conditions

9.68 According to the observation during survey, temperature and the rain flow records in the reporting month (Reference: https://www.weather.gov.hk/wxinfo/pastwx/metob202504.htm), weather conditions might pose influence towards the monitoring results.

9.69 The detailed ecological monitoring results are attached in **Appendix L**.

References

Ma, J., Jones, G., Zhu, G. J., & Metzner, W. (2010). Echolocation behaviours of the Japanese pipistrelle bat *Pipistrellus abramus* during foraging flight. Acta Theriologica, 55(4), 315-332.

Tong, C. F. (2016). Distribution and preference of landscape features and foraging sites of insectivorous bats in Hong Kong urban parks. (Master dissertation)

10 ENVIRONMENTAL SITE INSPECTION

Site Audits

10.1 Site audits were carried out by ET on a weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures on the Contract site. Summary of the site audits are presented in **Table 10.1** and **Appendix P**.

Table 10.1 Summary of Site Audits

Environmental Site Inspection	Works Contracts						
	ND/2019/01	ND/2019/02	ND/2019/03	ND/2019/04	ND/2019/05	ND/2019/06	ND/2019/07
Weekly site audit with representative of the *Supervisor's* Representative and the Contractor	1, 8, 14, 22 and 29 Apr 25	2, 9, 16, 22 and 29 Apr 25	N/A	3, 9, 14, 24 and 29 Apr 25	7, 17, 23 and 28 Apr 25	N/A	7, 17, 23 and 29 Apr 25
Joint Site Audit with representative of the *Supervisor's* Representative, the Contractor and IEC	14 Apr 25	16 Apr 25	N/A	14 Apr 25	17 Apr 25	N/A	23 Apr 25

Remarks:
1. The weekly site inspection for ND/2019/06 has been terminated starting from 19/10/2023 since the termination proposal was approved by EPD on the same day.
2. The weekly site inspection for ND/2019/03 has been terminated starting from 01/04/2025 since all outstanding works with defect rectification works was completed on 28 March 2025 according to AECOM.

10.2 During site inspections in the reporting month, no non-conformance was identified. The observations and recommendations made during the audit sessions are summarised in **Table 10.2**. Any outstanding and recurrence deficiencies are presented in **Table 10.3**.

10.3 All construction activities with significant environmental impact undertaken by Contract No. ND/2019/06 was substantially completed in March 2022 and the majority of outstanding works were also completed in April 2022 with defect rectification works remained until July 2023 when all works were completed.

10.4 The weekly site inspection and EM&A Reporting for ND/2019/06 were maintained until the termination proposal for ND/2019/06 has been endorsed by the IEC (17 Aug 23), the Engineer (26 Aug 23) and the Project Proponent (19 Sep 23) followed by approval from EPD (19 Oct 23) in accordance. The procedure for termination proposal for ND/2019/06 is in accordance with section 15.4.2 of updated EM&A Manual.

10.5 Regarding to Contract No. ND/2019/03, all outstanding works with defect rectification under the Contract have also been completed on 28 March 2025. Refer to the proposal for termination of Construction Phase EM&A Programme of ND/2019/03 submitted by ET, with no objection from CEDD, AECOM and IEC to EPD in July 2024, weekly site environmental audit under ND/2019/03 would be terminated starting from 1st April 2025. According to the recommendation from AFCD, Avifauna monitoring in Long Valley (i.e., T5) during the construction period and its results reporting in the Monthly EM&A Report will be continued until the completion of works within 200m of Long Valley.

Table 10.2 Observations and Recommendations during Site Audits

Parameters	Date	Observations and Recommendations	Follow-up
Contract No.: ND/2019/01			
Air Quality	25/03/2025	Dusty haul road between Portion 6A and 9C should be water-sprayed regularly as dust suppression.	Improvement/Rectification was observed during follow-up audit session on 1 April 2025.
	22/04/2025	Exposed worksites and haul road should be water-sprayed regularly as dust suppression.	Improvement/Rectification was observed during follow-up audit session on 29 April 2025.
Contract No.: ND/2019/02			
Air Quality	02/04/2025	Dusty stockpile at Dills Corner Garden should be covered entirely and properly to avoid dust generation.	Improvement/Rectification was observed during follow-up audit session on 9 April 2025.
Ecology	26/03/2025	Silt curtain near CH1046 should be maintained properly and regularly.	Item was remarked as 250402-R01. Follow-up action is needed to be reviewed.
	02/04/2025		Item was remarked as 250409-R01. Follow-up action is needed to be reviewed.
	09/04/2025		Item was remarked as 250416-R01. Follow-up action is needed to be reviewed.
	16/04/2025		Item was remarked as 250422-R01. Follow-up action is needed to be reviewed.
	22/04/2025		Item was remarked as 250429-R01. Follow-up action is needed to be reviewed.
	29/04/2025		Follow-up action is needed to be reported in the following month.
Waste/Chemical Management	22/04/2025	General wastes should be disposed of properly and regularly.	Improvement/Rectification was observed during follow-up audit session on 29 April 2025.
Contract No.: ND/2019/04			
Air Quality	27/03/2025	Dusty bags of cement at Portion K should be covered properly.	Item was remarked as 250403-R01. Follow-up action is needed to be reviewed.
	03/04/2025		Item was remarked as 250409-R01. Follow-up action is needed to be reviewed.
	09/04/2025		Improvement/Rectification was observed during follow-up audit session on 14 April 2025.
	14/04/2025	Exposed worksites at Portion K should be watered regularly.	Improvement/Rectification was observed during follow-up audit session on 24 April 2025.

Parameters	Date	Observations and Recommendations	Follow-up
	03/04/2025	Dusty stockpile at Bridge F should be covered properly.	Item was remarked as 250409-R02. Follow-up action is needed to be reviewed.
	09/04/2025		Item was remarked as 250414-R01. Follow-up action is needed to be reviewed.
	14/04/2025		Improvement/Rectification was observed during follow-up audit session on 24 April 2025.
	14/04/2025	NRMM label should be displayed on regulated machine properly.	Improvement/Rectification was observed during follow-up audit session on 24 April 2025.
	29/04/2025	Exposed haul road near Bridge F should be water-sprayed regularly as dust suppression.	Follow-up action is needed to be reported in the following month.
Ecology	09/04/2025	Silt curtain under Bridge F should be maintained properly.	Item was remarked as 250414-R02. Follow-up action is needed to be reviewed.
	14/04/2025		Item was remarked as 250424-R01. Follow-up action is needed to be reviewed.
	24/04/2025		Improvement/Rectification was observed during follow-up audit session on 29 April 2025.
Contract No.: ND/2019/05			
Air Quality	31/03/2025	Dusty stockpile should be covered properly to avoid dust generation.	Improvement/Rectification was observed during follow-up audit session on 7 April 2025.
	17/04/2025	NRMM label on the excavator should be displayed.	Improvement/Rectification was observed during follow-up audit session on 23 April 2025.
Water Quality	17/04/2025	Sand bag bunding around the gully should be maintained properly.	Improvement/Rectification was observed during follow-up audit session on 23 April 2025.
	28/04/2025	Muddy water discharge was observed due to wastewater treatment plant malfunctioning. Contractor was reminded to maintain the facilities regularly.	Follow-up action is needed to be reported in the following month.
	28/04/2025	Exposed surface with open stockpile should be covered properly during rainstorm.	Follow-up action is needed to be reported in the following month.

Parameters	Date	Observations and Recommendations	Follow-up
Waste/Chemical Management	17/04/2025	Drip tray for chemical/fuel containers should be provided.	Improvement/Rectification was observed during follow-up audit session on 23 April 2025.
Contract No.: ND/2019/07			
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Table 10.3 Summary Table for the Outstanding item(s) in the reporting month

Contract No.	Outstanding deficiencies since last reporting month (March 2025)	Deficiencies recorded in the reporting month (April 2025)								Total deficiencies (including repeated deficiencies) in the reporting month	Deficiencies rectified in the reporting month	Outstanding deficiencies need to be Follow-up in the next month (May 2025)								Total outstanding deficiencies
		A	N	W	W/C	CH	L&V	E	P/L			A	N	W	W/C	CH	L&V	E	P/L	
ND/2019/01	1	1	/	/	/	/	/	/	/	1	2	/	/	/	/	/	/	/	/	/
ND/2019/02	1	1	/	/	1	/	/	5	/	7	2	/	/	/	/	/	/	1	/	1
ND/2019/03**	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
ND/2019/04	1	8	/	/	/	/	/	3	/	11	5	1	/	/	/	/	/	/	/	1
ND/2019/05	1	1	/	3	1	/	/	/	/	5	4	/	/	2	/	/	/	/	/	2
ND/2019/06*	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
ND/2019/07	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

Legends:
A = Air Quality
N = Construction Noise Impact
W = Water Quality
W/C = Waste / Chemical Management
CH = Cultural Heritage
L&V = Landscape & Visual
E = Ecology
P/L = Permit / Licences
** The weekly site inspection for ND/2019/06 has been terminated starting from 19/10/2023 since the termination proposal was approved by EPD on the same day.*
*** The weekly site inspection for ND/2019/03 has been terminated starting from 01/04/2025 since all outstanding works with defect rectification works was completed on 28 March 2025 according to AECOM.*

Implementation Status of Environmental Mitigation Measures

10.6 According to the EIA Report, EPs and the Updated EM&A Manual, the mitigation measures detailed in the documents are recommended to be implemented during the construction phase. An updated summary of the Environmental Mitigation Implementation Schedule is provided in **Appendix Q**. The photographic records of measures as stipulated in EPs to mitigate environmental impacts in the reporting month are presented in **Table 10.4.**

Table 10.4 Photographic Records and Implementation Status of Measures

EP No.	Condition	Photographic Record	Implementation Status
EP-466/2013/A	2.9	To minimise adverse impacts on habitats of ecological importance in the vicinity of the Project, 2m high solid dull green site barrier fences shall be erected around all active works areas.	Λ[1]
EP-467/2013/A	2.9	To minimise adverse impacts on habitats of ecological importance in the vicinity of the Project, 2m high solid dull green site barrier fences shall be erected around all active works areas.	Λ[1]
EP-468/2013/A	2.11	To minimise adverse impacts on habitats of ecological importance in the vicinity of the Project, 2m high solid dull green site barrier fences shall be erected around all active works areas.	Λ[1]
EP-469/2013	2.7	To minimise adverse impacts on habitats of ecological importance in the vicinity of the Project, 2m high solid dull green site barrier fences shall be erected around all active works areas.	Λ[1]

EP-473/2013/A	2.13	To minimise adverse impacts on habitats of ecological importance in the vicinity of the Project, 2m high solid dull green site barrier fences shall be erected around all active works areas.	^[1]
EP-475/2013/A	2.7	To minimise adverse impacts on habitats of ecological importance in the vicinity of the Project, 2m high solid dull green site barrier fences shall be erected around all active works areas.	^[1]
Implementation status:	^ Mitigation measure was fully implemented * Observation/reminder was made during site audit but improved/rectified by the contractor # Observation/reminder was made during site audit but not yet improved/ rectified by the contractor X Non-compliance of mitigation measure • Non-compliance but rectified by the contractor N/A Not Applicable at this stage as no such site activities were conducted in the reporting period		

Remark:
[1]: Barrier fences might be subjected to change according to the phasing plan designed at detailed design stage

Implementation Status of Water Quality Mitigation Measures

10.7 The water quality mitigation measures detailed in the EIA Report and the Updated EM&A Manual are recommended to be implemented during the construction phase. Water quality mitigation measures implemented by the contractors were closely monitored to prevent water pollution, especially during rainy season. An updated summary of the Environmental Mitigation Implementation Schedule is provided in **Appendix Q**. Specific water quality mitigation measures for major construction works in the reporting month are presented in **Table 10.5.**

Table 10.5 Specific Water Quality Mitigation Measures for Major Construction Works in the Reporting Month

Works Contracts	Photographic Records	
ND/2019/01	Hard paved exposed slope surface	Provision of maintenance for the drainage and sump pit around the construction site
ND/2019/02	Hard paved exposed haul road	Hard paved exposed slope surface
ND/2019/03	Hard paved exposed haul road	Watering the main haul road regularly.
ND/2019/04	Concrete barrier along the site hoarding	Deployment of silt curtain around works area in Ng Tung River

ND/2019/05	Covering dusty stockpile at different works area	Provision of sand bags around works area and sump pit to prevent the untreated muddy water
ND/2019/07	Covering exposed slope surface with tarpaulin	De-silting waste water before discharge
Water quality mitigation measures for site(s) in operation phase, remaining defect works		
ND/2019/06	Hard paved exposed haul road	Hard paved exposed haul road

Solid and Liquid Waste Management Status

10.8 Waste generated from Contract Nos. ND/2019/01, ND/2019/02, ND/2019/04, ND/2019/05 and ND/2019/07 included inert construction and demolition (C&D) materials and non-inert C&D wastes in the reporting month. The site of ND/2019/06 was handed over to AFCD for operation since 4 April 2022. The site of ND/2019/06 was handed over to AFCD for operation since 1 April 2025.

10.9 The amount of wastes generated by the construction works of the Contract Nos. ND/2019/01, ND/2019/02, ND/2019/04, ND/2019/05 and ND/2019/07 during the reporting month are shown in **Appendix R**. The site of ND/2019/06 was handed over to AFCD for operation since 4 April 2022. The site of ND/2019/06 was handed over to AFCD for operation since 1 April 2025.

10.10 The Contractors are advised to minimise the wastes generated through recycling or reusing. All mitigation measures stipulated in the Updated EM&A Manual and waste management plans shall be fully implemented. The status of implementation of waste management and reduction measures are summited in **Appendix Q**.

Ecological Mitigation Measures – Creation of Long Valley Nature Park (LVNP)

10.11 Based on the findings of the EIA Report, the area of Long Valley has been assessed as of high to very high ecological value and is the largest contiguous area of freshwater wetland habitats in Hong Kong. To safeguard the ecological value of Long Valley, about 37 hectares of land in Long Valley has been proposed to develop into Long Valley Nature Park (LVNP) for conserving and enhancing the ecologically important environment as well as for compensation of the wetland loss due to the NDA development.

10.12 LVNP is developed according to the approved Habitat Creation and Management Plan (HCMP) submitted under EP-468/2013/A. HCMP provides a framework and specifications for development and management of LVNP and guides the development to maintain and enhance the 37 hectares of low-lying wetland habitats.

10.13 Regarding the design, the zoning of land use in LVNP is intended to maintain the existing mosaic pattern of wet and dry agriculture, while controlling the activities that could potentially disturb target habitats and species. LVNP will be divided into three broad zones of land use as below:

- Biodiversity Zone of about 21 hectares largely designated for biodiversity conservation through cultivation of specified crops and habitat management.
- Agricultural Zone of about 11 hectares designated for commercially focuses crop production and eco-friendly agricultural practice for farming.
- Visitor Zone of about 5 hectares designed to accommodate visitors as well as storage and other facilities and for educational purposes.

10.14 The construction of LVNP started in late 2019 and has been opened to public starting from 9 November 2024. All outstanding works with defect rectification under the ND/2019/03 in LVNP have been completed on 28 March 2025. During the construction period, the progress of construction and wetland enhancement works has been under observation by different stakeholders including AFCD and green groups. Close communication between AFCD and CEDD were conducted to exchange views on conservation, restoration and management of habitats as well as on the planning and design of the park. In addition, advices from green

groups, Hong Kong Bird Watching Society (HKBWS) and The Conservancy Association (CA), have been taken on habitat management of Long Valley and potential effects on habitat and wildlife of each individual work conducted in Long Valley. The last meeting was held on 18 November 2022 to share the progress of LVNP with different stakeholders, including CEDD, AFCD, CA, HKBWS, Contractor, ET, IEC and farmers.

10.15 Proposals on wetland creation and restoration, dry agricultural land creation, pond creation, water treatment wetland and design of irrigation channel were submitted by the Contractor to achieve the objectives stated in HCMP and accepted by the Engineer with consent from AFCD before implementation. The Contractor would consult the stakeholders for recommendations and suggestions on mitigation measures to minimise the environmental impacts arising from construction works. The progress of works would be arranged to minimise impacts to avifauna and maintain the habitat for avifauna. The photographic records of site activities in LVNP are presented in **Table 10.6**.

Table 10.6 Photographic Records of Site Activities in LVNP

Continuing agricultural practice in existing farmland to maintain habitats in Long Valley

Open water Habitat

Open water Habitat

Creation of wetland with designated habitat for biodiversity conservation

Planting of paddy rice to provide foraging ground for Yellow-breasted Bunting

Enhancement of irrigation channel to provide reliable water source for farmland in Long Valley

Provision of bird island (hidden area)	Restoring of water flea pond to provide food source to water birds
Construction of storage sheds for farmers	A *Himantopus himantopus*
Greater Painted-Snipe *Rostratula benghalensis*	Wet agricultural land

11 ENVIRONMENTAL NON-CONFORMANCE

Summary of Exceedances

11.1 Six (6) Limit Level for DO, three (3) Limit Level for turbidity of impact water quality monitoring were recorded. After investigation, all the exceedance at SYR-IS1, NTR-IS1, SHST-IS2 and MWR-IS3 were considered caused by other external factors rather than the contract works.

11.2 No Action/Limit Level exceedance for air quality, construction noise, ambient arsenic, built heritage and landfill gas monitoring was recorded in the reporting month. The summary of exceedance record in the reporting month is shown in **Appendix O**.

11.3 Ecological monitoring was carried out in the reporting month. Two (2) limit level exceedance for aquatic fauna were recorded. The exceedance were considered non-project related.

11.4 The exceedances were considered non-project related, as no evidence to suggest that the exceedances were related to project activities, supported by environmental monitoring data.

11.5 Should the monitoring results of the environmental monitoring parameters at any designated monitoring stations indicate that Action / Limit Levels are exceeded, the actions in accordance with the Event/Action Plan in **Appendix N** would be carried out.

Summary of Environmental Non-Compliance

11.6 No environmental non-compliance was recorded in the reporting month.

Summary of Environmental Complaint

11.7 No environmental complaint was received in the reporting month. The Cumulative Complaint Log since the commencement of the Project is presented in **Appendix S**.

Summary of Environmental Summon and Successful Prosecution

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

12 FUTURE KEY ISSUES

Key Issues in the Coming Three Months

12.1 The major site activities, potential environmental impacts and recommended mitigation measures for the coming three months are shown in **Table 12.1.**

Table 12.1 Summary Table for Site Activities, Potential Environmental Impacts and Recommended Mitigation Measures in the Coming Months

Contract No.	Major Site Activities (May to July 2025)	Location/ Working Period	Potential Environmental Impact	Recommended Mitigation Measures
ND/2019/01	(a) Excavation / Backfilling	Portion 1c, 6a, 7, 8a, 9b	- Construction Dust impact - Noise Impact (Construction Phase) - Water Quality Impact (Construction Phase) - Waste Management (Construction Waste)	**Air** - Watering on exposed earth and haul road. - Cover the stockpiles or dusty materials. - Deploy water bowsers to water the haul road. - Deploy mist-cannon on site - Provide shelter with top and 3-sides for cement production activities. - Cover the Arsenic-containing soil. - Store the bulk cement in enclosed silo tank for soil treatment. - Close the mechanical cover of the vehicles used for transporting dusty materials. - Establish vehicle wheel washing facilities at vehicle exit points. - Speed control of site vehicles. **Noise** - Regular inspect of construction plants in good condition.
	(b) Site formation	Portion 1c, 2, 5		
	(c) Planting / Metal works	Portion 8a		
	(d) Construction of subway	Portion 2		
	(e) Sewage Works	Portion 1c, 7		
	(f) RC Construction of fresh water service reservoir	Portion 8a		
	(g) District Cooling System	Portion 5, 6a, 9b		
	(h) Operation of HAC treatment facility	Portion 3, 6b		
	(i) Drainage works / watermains works	Portion 1a, 1c, 2, 3, 5, 6a, 7, 8a, 8b, 9b		

	(j) Road works	Portion 1c, 2, 6a, 7, 8a		- Provide temporary noise screens if necessary. - Use of Quiet plants (QPME) and working methods if possible. - Sequencing operation of construction plants where practicable. - Shut down the machines and plant if not in use. - Only well-maintained plant to be operated on-site - Mobile plant to be sited as far away from NSRs as possible practicable. - Conduct noise monitoring regularly. - Erect silent-up noise barrier at portion 6b. **Water** - Set up wastewater treatment system (AquaSed) on site - Erect soil bund / temporary drain to divert /collect surface runoff. - Maintain the drainage and wastewater treatment facilities. **Waste / Chemical Management** - Sort out demolition debris and excavated materials from demolition works to recover reusable / recyclable portions - Provide recycling bins on site, encourage reuse and recycle as much as possible. - Provide drip trays for chemical containers. - Chemical spill kit available on site. - Chemical waste cabinet available on site.
	(k) Soil nail / Slope works	Portion 1a, 2, 6a		
	(l) Trenchless works, grouting, ground treatment	Portion 8b		
	(m) Road lighting works	Portion 6a		
	(n) Sheet piling/ ELS & pipe pile	Portion 1a, 1c, 3, 8b, 9b		
	(o) Stockpile of soil	Portion 13		

				- Chemical wastes to be stored in appropriate containers and collected by a licensed chemical waste collector. - Delivery of yard waste to tree shredding facility for upcycling.
ND/2019/02	(a) Pipe Jacking	Portions 2, 4	Air, Noise, Waste	- Dusty works should be spray water. Idle stockpile or slop should be covered by Tarpaulin sheet properly. - Wheel washing should be carried out at every exit. - Plants should be well maintained to prevent dark smoke and oil leakage. Idle plant should be turned off. - Drip tray should be provided for all chemical and stationary plants. - No construction works shall be carried out in restricted hours (7:00 pm to 7:00 am) unless CNP is obtained. - Erect noise screen along site boundary. - Waste should be sorted and dispose according to the Waste Management Plan - No direct discharge of wastewater into storm drains is allowed. Wastewater must be de-silted before discharged in accordance with the water discharge license. - Dull green barrier and ecological measures should be implemented according to the Ecological protection plan.
	(b) Backfilling	Portions 4, 10	Air, Noise, Waste	
	(c) Concreting	Portions 4, 10	Air, Noise, Water, Waste, Ecology	
	(d) Bedding & Pipe Laying	Portion 5, 6	Air, Noise, Water, Waste, Ecology	
	(e) ELS	Portions 4, 5, 6	Air, Noise, Water, Waste, Ecology	
	(f) Grouting	Portion 6	Air, Noise, Water	
	(g) Cut and Fill of Slope	Portion 4, 5	Air, Noise, Water, Waste	
	(h) Sheet pile installation	Portion 4, 5	Air, Noise, Water, Waste	
ND/2019/03	N/A	N/A	N/A	N/A

ND/2019/04	(a) Rebar Fixing, formwork erection and scaffolding erection	Bridge F, A1, A2, A3, Portion J, K, H, A, B	- Air, Noise, Waste	- Dusty works should be sprayed with water or stockpile should be covered by tarpaulin properly. - Plants should have maintenance to prevent dark smoke and oil leakage. Idle plant should be turned off. - Drip tray should be provided for all chemical and stationary plants. - No construction works shall be carried out in restricted hours (7:00 pm to 7:00 am) unless CNP is granted. - Waste should be sorted and disposed according to Waste Management Plan. - No direct discharge of wastewater into storm water drains is allowed. Wastewater must be desilted before discharging according to water discharge license.
	(b) Pile cap	Bridge G	- Air, Noise, Water, Waste	
	(c) Grouting	Bridge F, A1, A2, A3 and Portion J, K, H	- Air, Noise, Water, Waste	
	(d) Back filling	Bridge A1, Portion F	- Air, Noise, Waste	
	(e) Excavation & ELS	Portion A, B, J, H, K	- Air, Noise, Waste	
	(f) Road works	Portion A, B, J, H, K	- Air, Noise, Waste	
	(g) Pre-drilling	NIL	- NIL	
	(h) Sheet piling	NIL	- NIL	
	(i) UU diversion	Portion J and K	- Air, Noise, Waste	
ND/2019/05	(a) ELS & Pile Cap Construction	NB69 Bay 2~8 NB110 Bay 6~7	- Construction Dust Impact - Noise Impact - Water Quality Impact (Construction Phase)	Regular watering on exposed worksites and haul road. - Stockpiling area should be provided with covers and water spraying system. - Only well maintained plant to be operated on site. - plant known to emit noise strongly in one direction, where possible, be orientated so
	(b) Cap Construction	E3-04a, E3-04b, E4-01 and E4-02		
	(c) Cross head construction	B2-01, B2-02 and B2-03		
	(d) Pier / Pier head Construction	D2-01 and E305M		

	(e) Fabrication for segment	C2, C1, D1, D2, E1, E4	- Waste Management (Construction Waste) - Landscape and Visual - Cultural Heritage	that the noise is directed away from nearby NSRs. - mobile plant to be sited as far away from NSRs as possible practicable. - All open stockpiles of construction materials of more than 50m3 to be cove red with tarpaulin. - Manholes to be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system. - All vehicles and plant to be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. - Segregate and store different types of waste in different containers, skip or stockpiles to enhance reuse or recycling of materials and their proper disposal. - Sort out demolition debris and ex cavated materials from demolition works to recover reusable/recyclable portions. - Provide training to workers on appropriate waste management procedures, including waste reduction, reuse and recycling. - To adopt other good site practice, such as arrangements for collection and effective disposal to an appropriate facility, of all
	(f) Form Traveler	E3-01 construction 3rd to 6th pair E2-02 construction 14th pair & dismantling of FT1 D2-02 construction 6th to 8th pair D2-03 construction 2nd pair to 4th pair E2-01 erection of 5th set of form traveler.		
	(g) Segment Erection by Launching Girder & Crane	Bridges C3, C2		
	(h) SOP construction (precast & in-situ cast in type)	D2-01		
	(i) Road construction	TWSRW, TWSRE		
	(j) Road works	Jockey Club Rd, TWSRW		
	(k) Base slab construction	NB109 – bay 11~12		
	(l) Tree Works	All works areas		

	(m) Drainage works	On Kui Street		wastes generated at the site and regular cleaning and maintenance programme for drainage. - Chemical wastes to be stored in appropriate containers and collected by a licensed chemical waste Contractor. Chemical wastes (e.g. spent lubricant oil) should be recycled at an appropriate facility as far as possible, while the chemical waste that ca nnot be recycled should be disposed of at either the Chemical Waste Treatment Centre, or another licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation. - Conducting Construction Vibration Monitoring - Tree Protection & Preservation Exiting trees to be retained within the Project Site should be carefully protected during construction. In particular OVTs will be preserved according to ETWB Technical Circular (Works) No. 29/2004. - Tree Transplantation Trees unavoidably affected by the Project works should be transplanted where practical. Trees should be transplanted straight to their final receptor site and not held in a temporary nursery as far as possible. - Erect 2m high dull green site boundary fence.

ND/2019/06	N/A	N/A	N/A	N/A
ND/2019/07	(a) Road works	Portion 1, 3, 4	- Construction Dust Impact - Noise Impact - Water Quality Impact (Construction Phase) - Waste Management (Construction Waste) - Landscape and Visual	- Regular watering on exposed worksites and haul road. - Stockpiling area should be provided with covers and water spraying system. - Only well-maintained plant to be operated on-site. - plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs. - mobile plant to be sited as far away from NSRs as possible practicable. - All open stockpiles of construction materials of more than 50m3 to be covered with tarpaulin. - Manholes to be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system. - All vehicles and plant to be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. - Segregate and store different types of waste in different containers, skip or stockpiles to enhance reuse or recycling of materials and their proper disposal. - Sort out demolition debris and excavated materials from demolition works to recover reusable/recyclable portions.
	(b) C&D waste disposal	Portion 2, 4		
	(c) Filling works	Portions 2		
	(d) Construction of site haul road	Portions 4		
	(e) Drainage Works	Portion 1, 2, 3, 4		
	(f) Sewerage works	Portion 3, 4		
	(g) Construction of Noise Barrier	Portion 4		
	(h) Waterworks	Portion 1, 2, 3, 4		

				- Provide training to workers on appropriate waste management procedures, including waste reduction, reuse and recycling. - To adopt other good site practice, such as arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site and regular cleaning and maintenance programme for drainage. - Chemical wastes to be stored in appropriate containers and collected by a licensed chemical waste Contractor. Chemical wastes (e.g. spent lubricant oil) should be recycled at an appropriate facility as far as possible, while the chemical waste that cannot be recycled should be disposed of at either the Chemical Waste Treatment Centre, or another licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation. - Tree Protection & Preservation – Exiting trees to be retained within the Project Site should be carefully protected during construction. In particular OVTs will be preserved according to ETWB Technical Circular (Works) No. 29/2004. - Tree Transplantation – Trees unavoidably affected by the Project works should be transplanted where practical. Trees should be transplanted straight to their final receptor site and not held in a temporary nursery as far as possible.

				- Erect 2m high dull green site boundary fence. - Light Control – Construction day and night time lighting should be controlled to minimize glare impact to adjacent VSRs during the Construction phase.

12.2 The major site activities in coming three months are shown in **Table IV**.

Monitoring Schedule for the Next Month

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

Construction Programme for the Next Month

12.4 A tentative construction programme is provided in **Appendix A**.

13 CONCLUSIONS AND RECOMMENDATIONS

Conclusions

13.1 This monthly EM&A Report presents the EM&A work undertaken in April 2025 in accordance with the Updated EM&A Manual.

13.2 Six (6) Limit Level for DO, three (3) Limit Level for turbidity of impact water quality monitoring were recorded.

13.3 No Action/Limit Level exceedance for air quality, construction noise, ambient arsenic, built heritage and landfill gas monitoring was recorded in the reporting month.

13.4 Two (2) limit level exceedance for aquatic fauna and no Action / Limit exceedance non- aquatic fauna for were recorded. The exceedance were considered non-project related.

Contract No. ND/2019/01

13.5 Environmental site inspections were conducted on 1, 8, 14, 22 and 29 Apr 25 by ET in the reporting month.

Contract No. ND/2019/02

13.6 Environmental site inspections were conducted on 2, 9, 16, 22 and 29 Apr 25 by ET in the reporting month.

Contract No. ND/2019/03

13.7 The weekly site inspection for ND/2019/03 has been terminated starting from 01/04/2025 since all outstanding works with defect rectification works was completed on 28 March 2025 according to AECOM.

Contract No. ND/2019/04

13.8 Environmental site inspections were conducted on 3, 9, 14, 24 and 29 Apr 25 by ET in the reporting month.

Contract No. ND/2019/05

13.9 Environmental site inspections were conducted on 7, 17, 23 and 28 Apr 25 by ET in the reporting month.

Contract No. ND/2019/06

13.10 The construction phase EM&A Programme for Contract No. ND/2019/06 was terminated on 19 Oct 2023. No more environmental site inspection is required.

Contract No. ND/2019/07

13.11 Environmental site inspections were conducted on 7, 17, 23 and 29 Apr 25 by ET in the reporting month.

13.12 No environmental complaint was received in the reporting month. No notification of summons or successful prosecutions was received in the reporting month.

13.13 The ET would keep track on the EM&A programme to ensure compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

Recommendations

13.14 According to the environmental audits performed in the reporting month, the following recommendations were made:

Air Quality Impact

- To regular water haul roads;
- To provide vehicle washing facilities with high pressure water jet at every discernible or designated vehicle exit point;
- To maintain the impervious material to entirely cover the stockpile of dusty materials; and
- To ensure all regulated machines displayed with valid Non-road Mobile Machinery (NRMM) labels.

Construction Noise Impact

- To ensure compressor operated with doors closed.
- To ensure the noise barriers were fully enclosed.

Water Impact

- To review and implement temporary drainage system;
- To prevent any surface runoff discharge into Sheung Yuen River, Ma Wat River or public road;
- To provide sandbags or construct berm to prevent any outflow of muddy water from site area;
- To ensure all vehicle clear of earth and mud before leaving the site areas;
- To ensure the drainage facilities would not be clogged with waste or sediment to avoid overflow;
- To regularly check the condition of desilting materials for proper function;
- To regularly maintain and ensure water treatment facilities proper operation and function;
- To divert all the water generated from the construction site to de-silting facilities with sufficient handling capacity before discharge; and
- To avoid or regularly clear the stagnant water in drip trays;

Waste/Chemical Management

- To dispose of general refuse properly;
- To clear and avoid oil stains at site areas;
- To provide proper storage areas for chemical; and
- To maintain drip trays for chemical storage well.

Landfill Gas Hazard

- “No Smoking” and “No Naked Flame” notices in Chinese and English should be posted prominently around the construction site.

Land Contamination

- Stockpiling site(s) should be lined with impermeable sheeting and bunded. Stockpiles should be properly covered by impermeable sheeting to reduce dust emission during dry season or contaminated run-off during rainy season. Watering should be avoided on stockpiles of soil to minimise runoff.

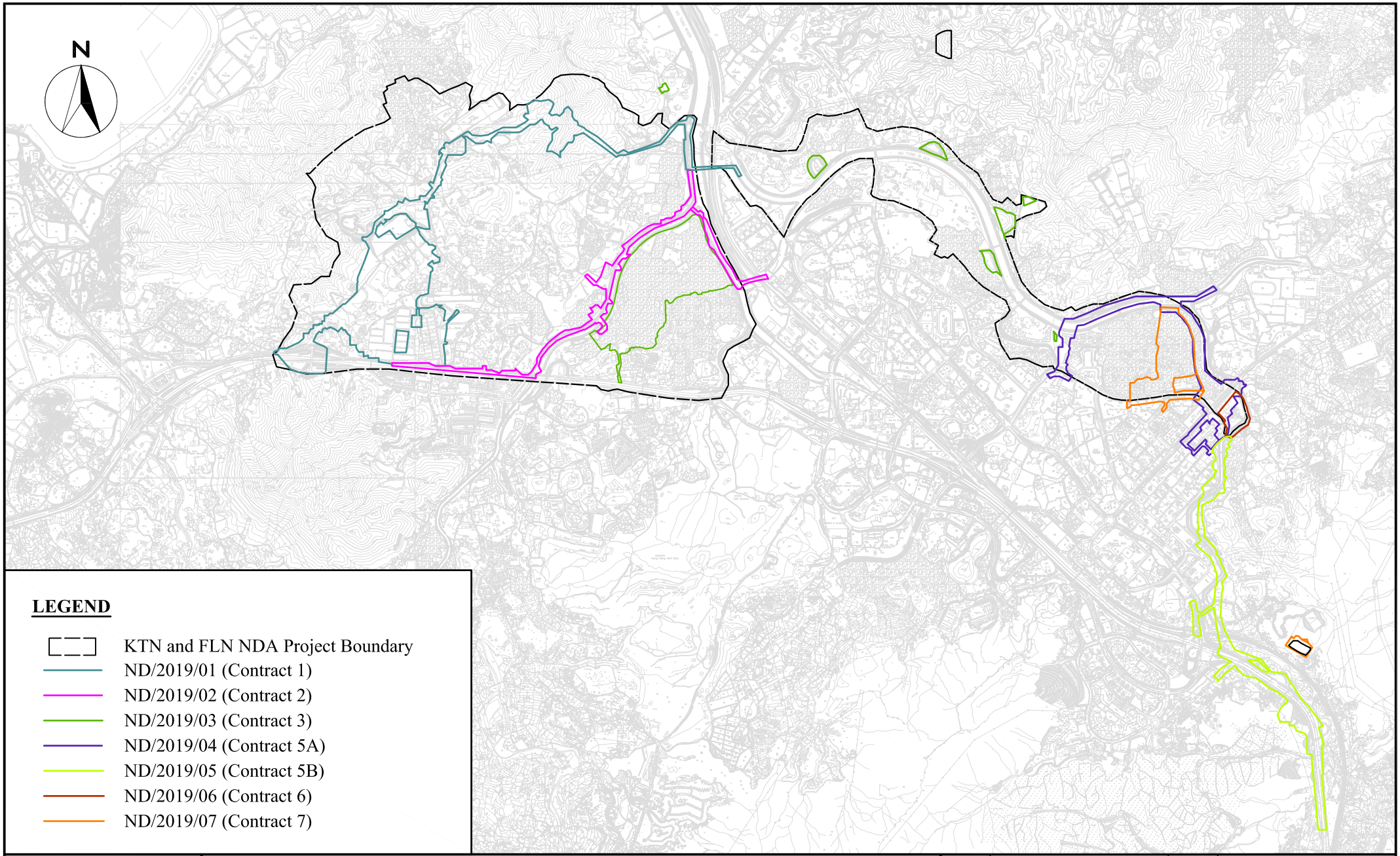
Ecology

- Properly erect and maintain 2m high solid barriers for protecting Siu Hang San Tsuen Stream.

Permit/ Licences

- To display valid Permit or Licences at the site entrances.

DRAWING(S)



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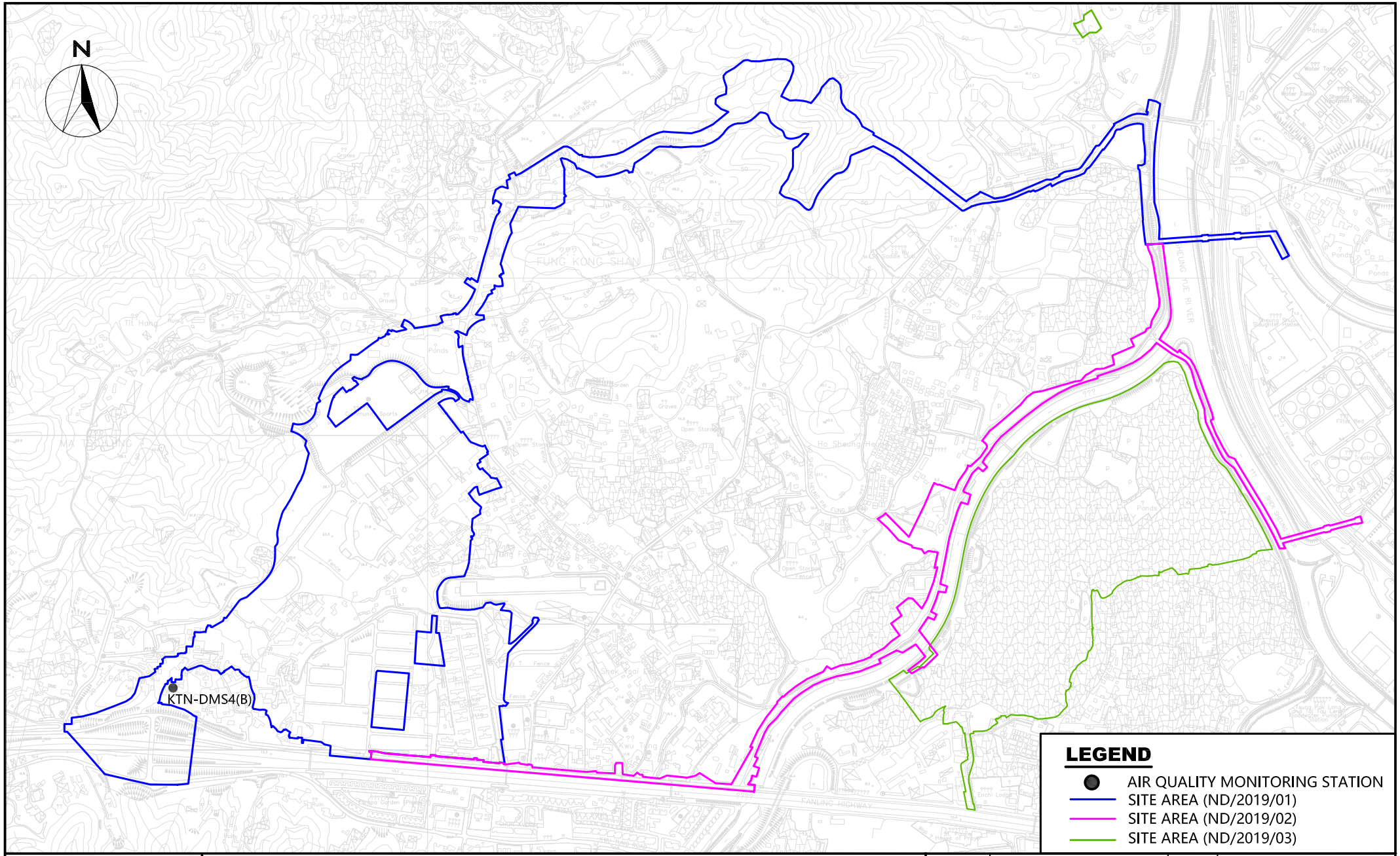
Service Contract No. NDO 04/2019 Environmental Team for EM&A Works in Construction Phase for the First Phase Development of KTN and FLN NDAs

Project Boundary for the Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas

SCALE	A4 @ 1:80000	DATE	July 2020
CHECK	KL	DRAWN	ML
Project No.	WMA20002	Drawing No. 1	REV -

FIGURE(S)



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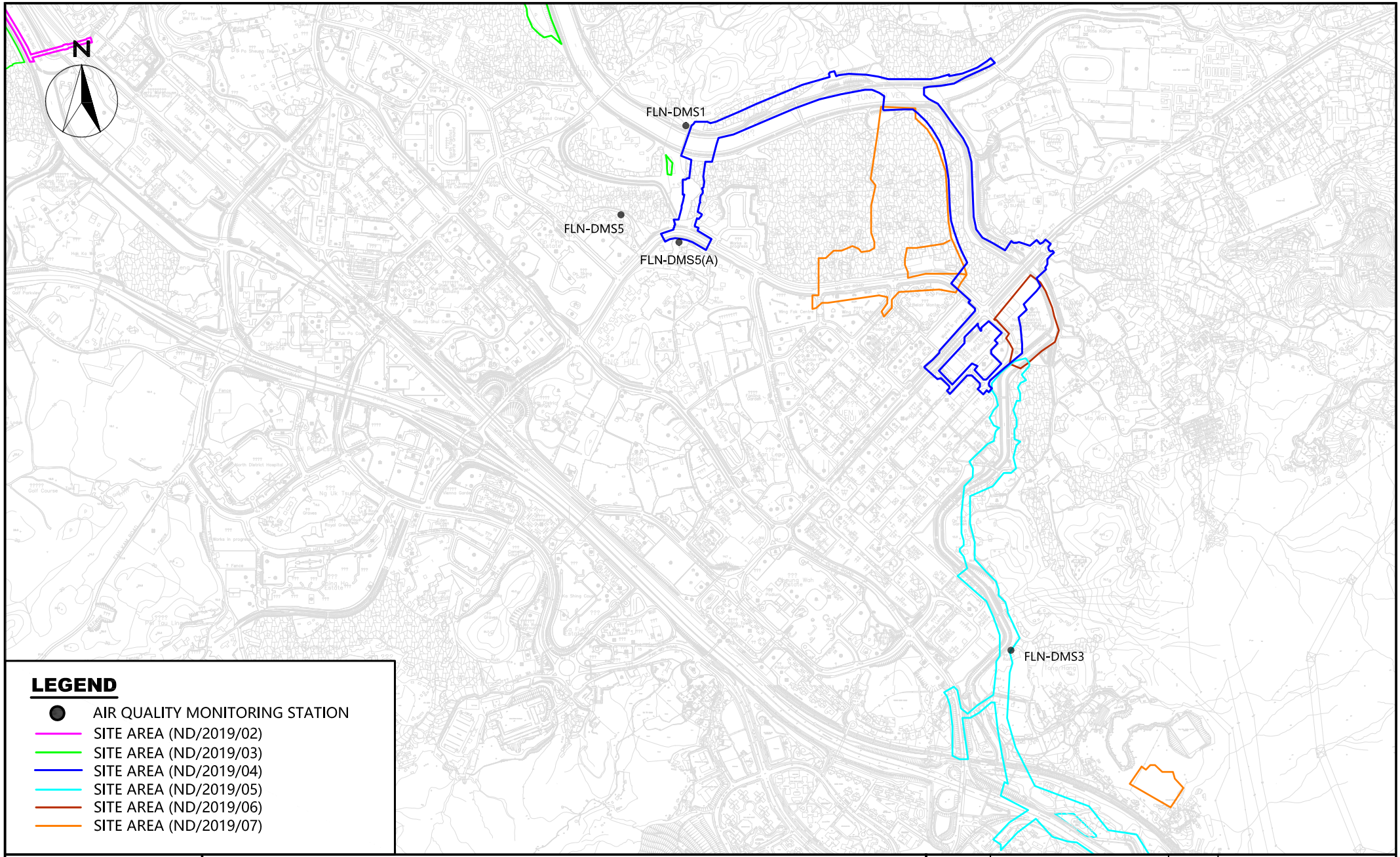
Service Contract No. NDO 04/2019 Environmental Team for EM&A Works in Construction Phase for the First Phase Development of KTN and FLN NDAs

Location of Air Quality Monitoring Station (KTN)

SCALE	A4 @ 1:30000	DATE	AUG 2022
CHECK	MM	DRAWN	ML
PROJECT No.	WMA20002	FIGURE NO. 1	REV —



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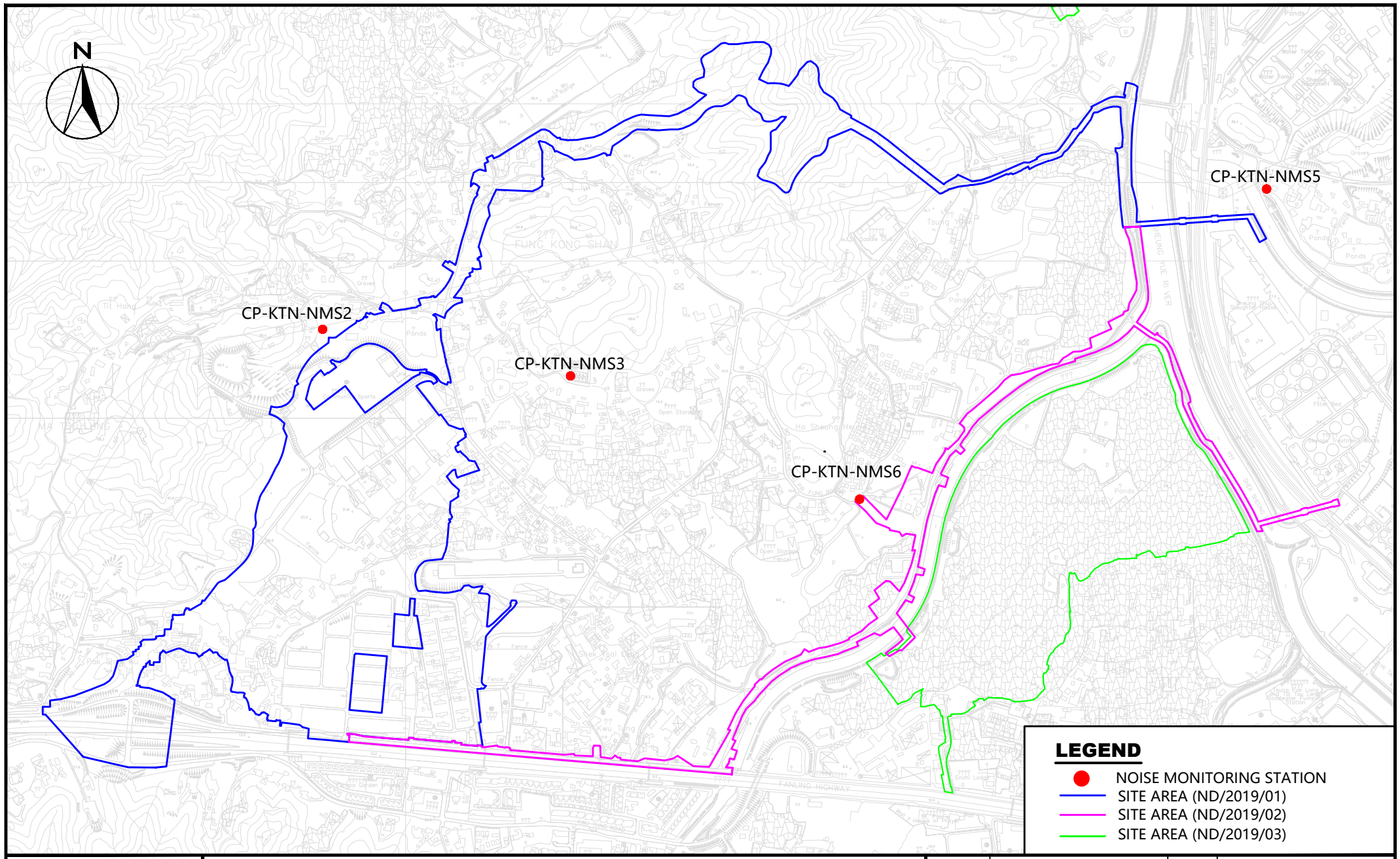
Service Contract No. NDO 04/2019 Environmental Team for EM&A Works in Construction Phase for the First Phase Development of KTN and FLN NDAs

Location of Air Quality Monitoring Station (FLN)

SCALE	A4 @ 1:40000	DATE	DEC 2021
CHECK	IT	DRAWN	ML
PROJECT No.	WMA20002	FIGURE NO. 2	REV —



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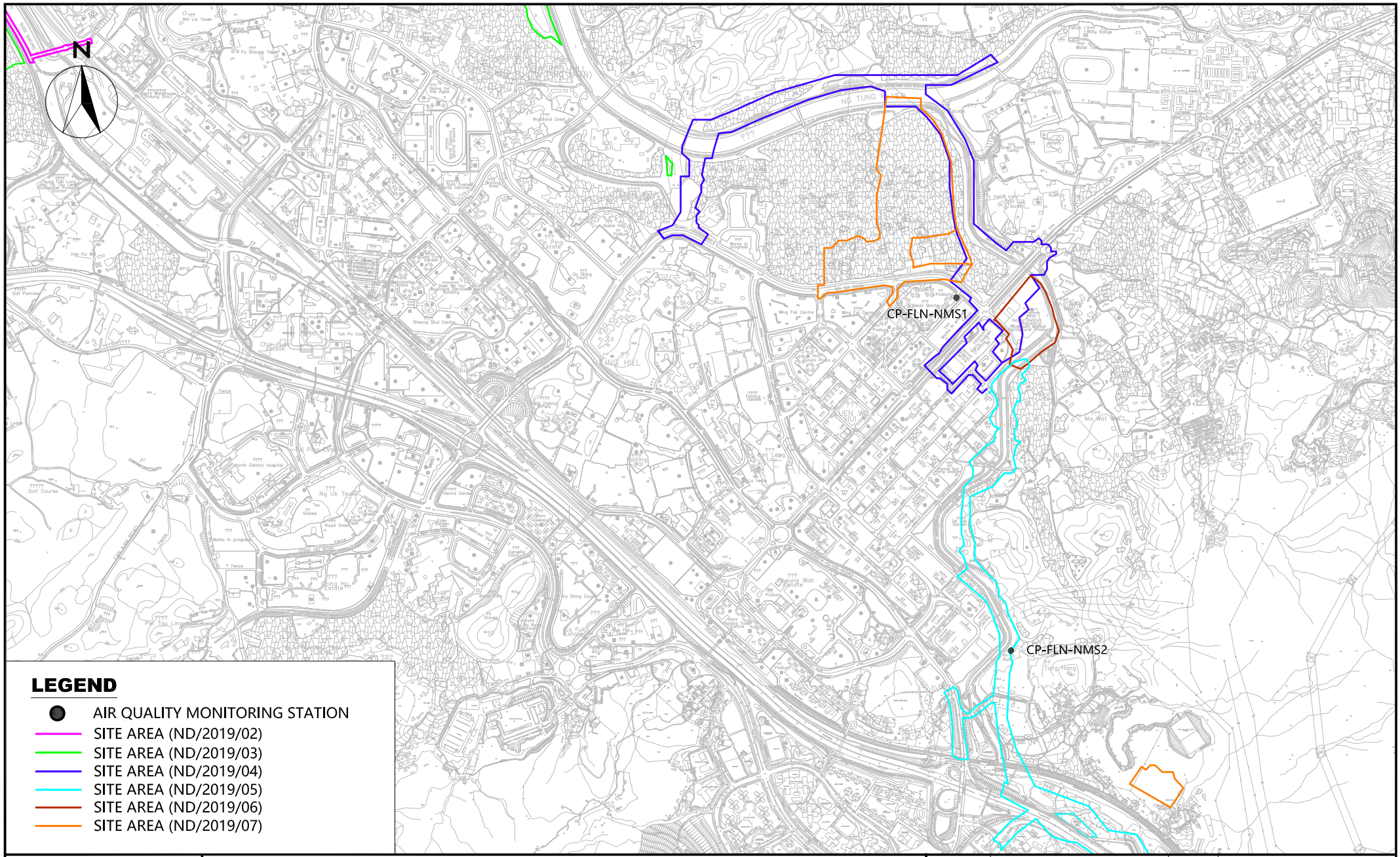
Service Contract No. NDO 04/2019 Environmental Team for EM&A Works in Construction Phase for the First Phase Development of KTN and FLN NDAs

Location of Noise Monitoring Station (KTN)

SCALE	A4 @ 1:30000	DATE	OCT 2020
CHECK	KL	DRAWN	NL
PROJECT No.	WMA20002	FIGURE NO. 3	REV —



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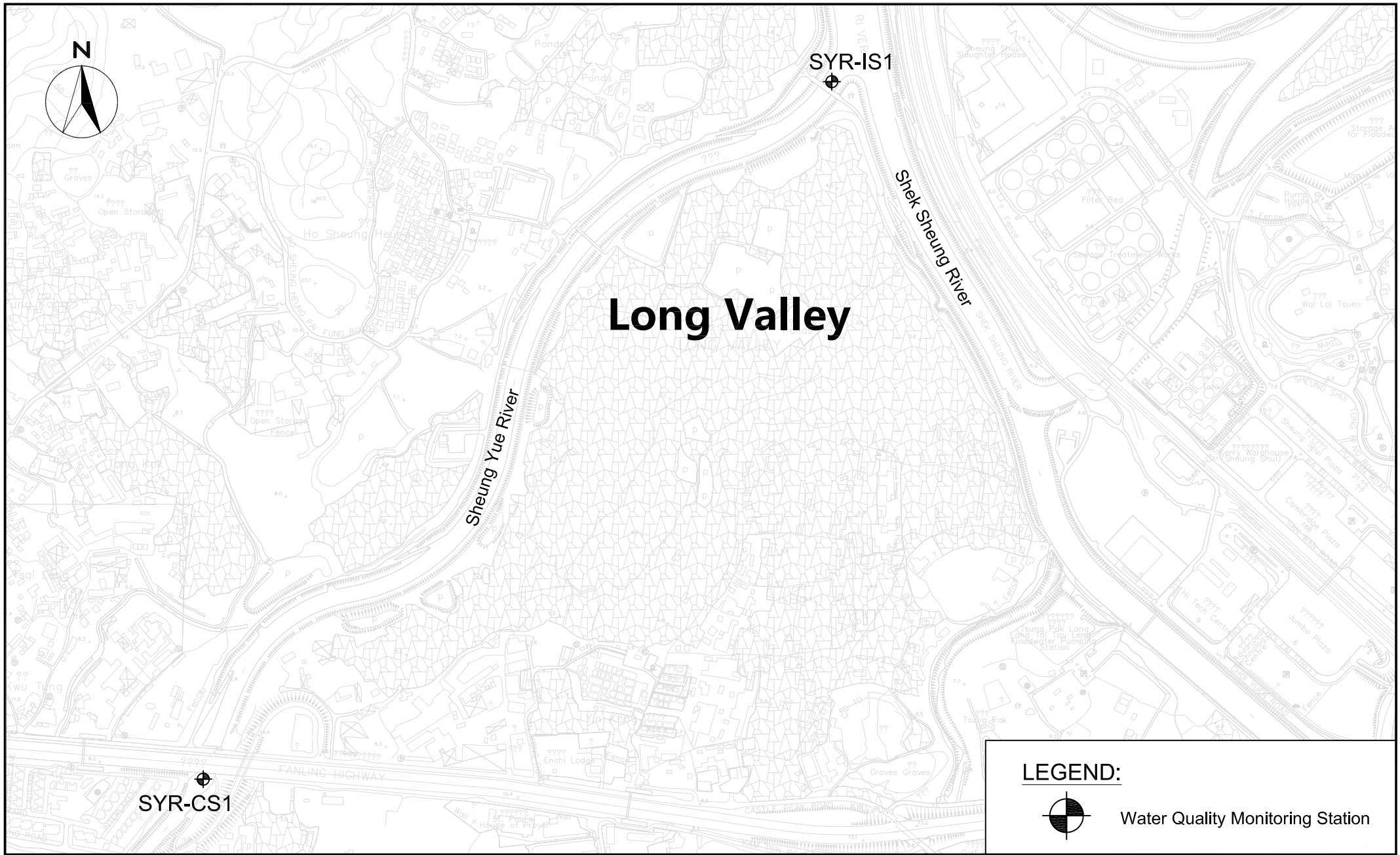
Service Contract No. NDO 04/2019 Environmental Team for EM&A Works in Construction Phase for the First Phase Development of KTN and FLN NDAs

Location of Noise Monitoring Stations (FLN)

SCALE	A4 @ 1:40000	DATE	AUG 2020
CHECK	KL	DRAWN	NL
PROJECT No.	WMA20002	FIGURE NO. 4	REV —



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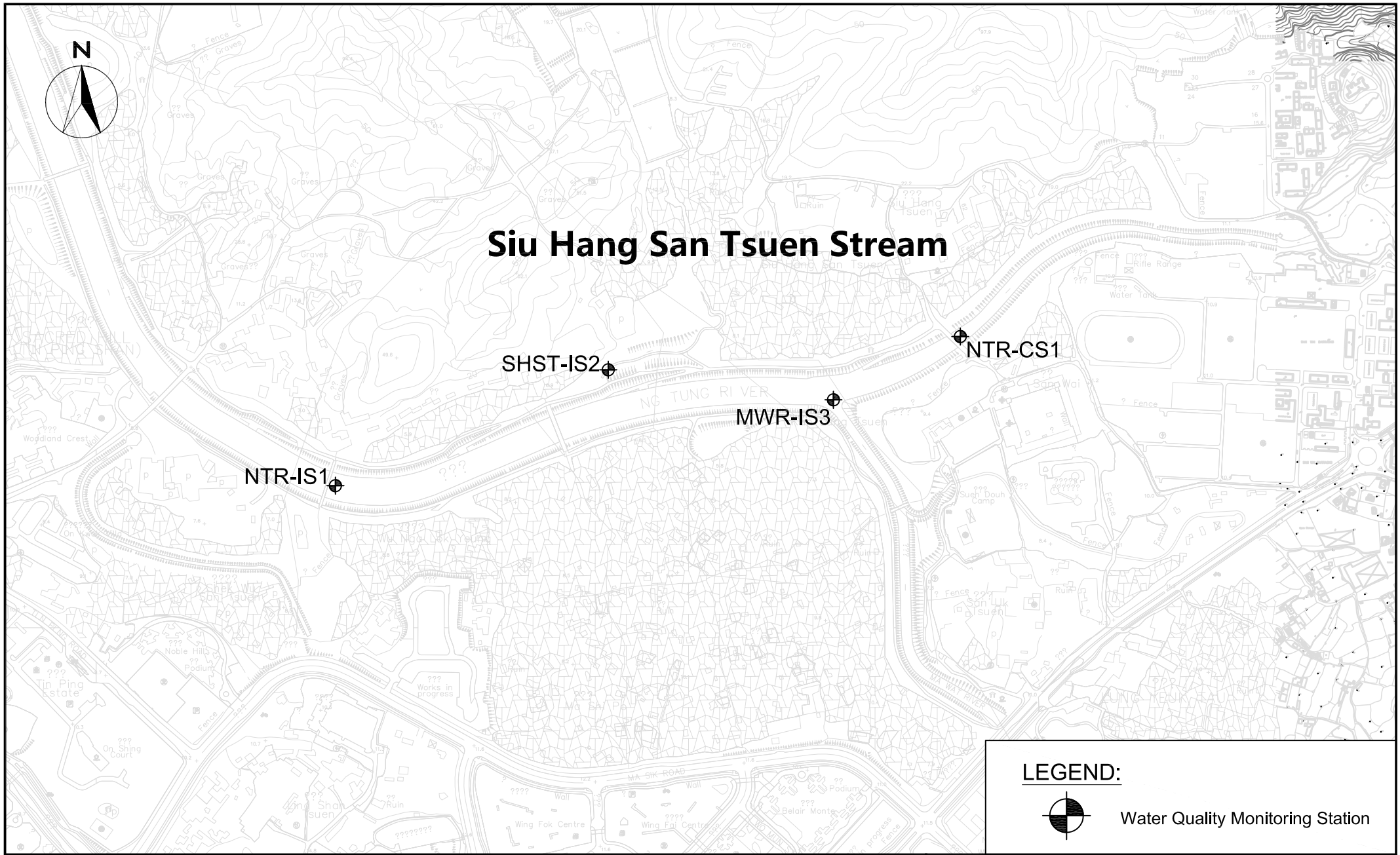
Service Contract No. NDO 04/2019 Environmental Team for EM&A Works in Construction Phase for the First Phase Development of KTN and FLN NDAs

Location of Additional Water Quality Monitoring Stations at River Beas

SCALE	A4 @ 1:20000	DATE	FEB 2021
CHECK	KL	DRAWN	NL
PROJECT No.	WMA20002	FIGURE NO. 5	REV —



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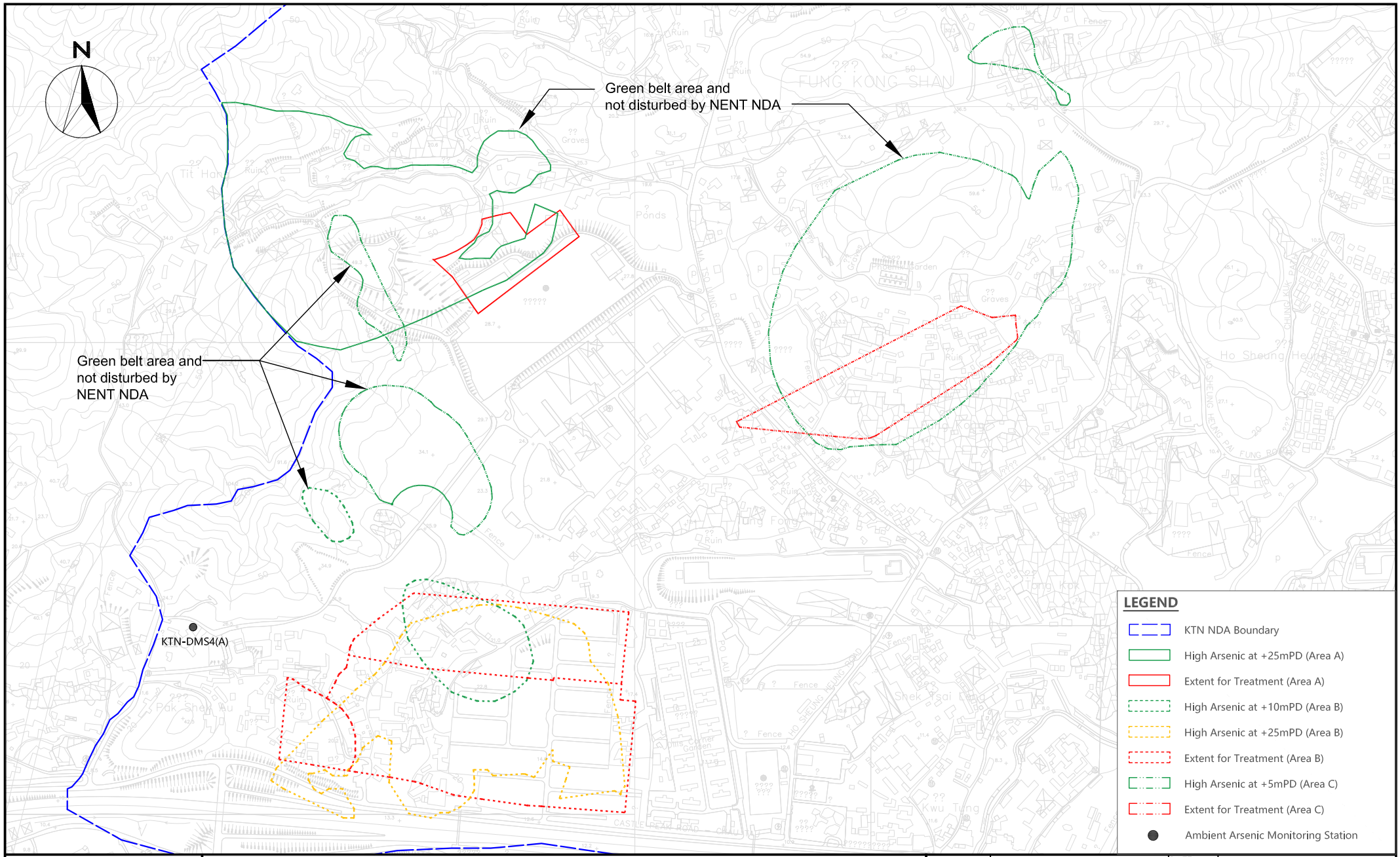
Service Contract No. NDO 04/2019 Environmental Team for EM&A Works in Construction Phase for the First Phase Development of KTN and FLN NDAs

Location of Additional Water Quality Monitoring Stations at River Indus and near Siu Hang San Tsuen Stream

SCALE	A4 @ 1:20000	DATE	FEB 2021
CHECK	KL	DRAWN	NL
PROJECT No.	WMA20002	FIGURE NO. 6	REV —



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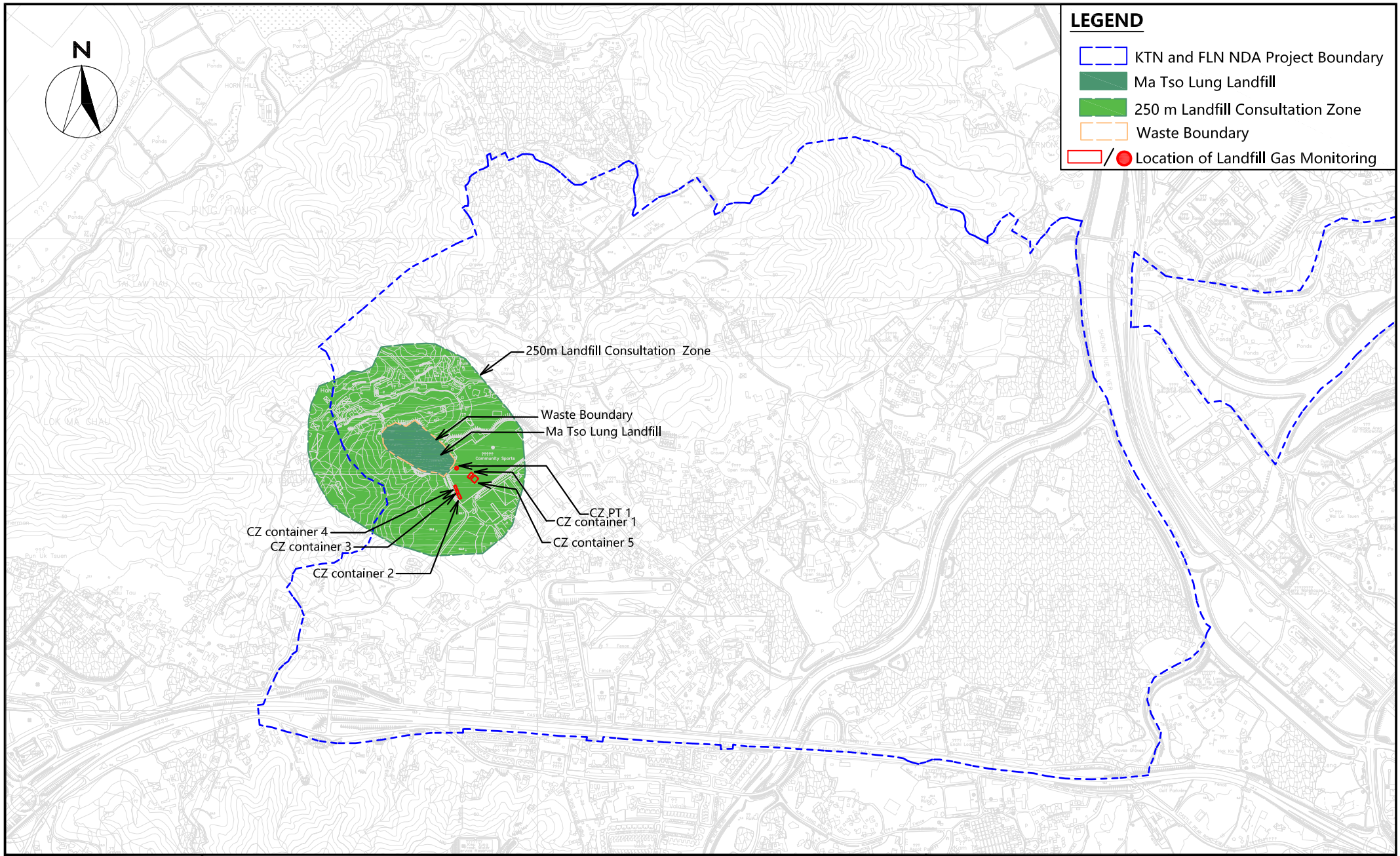
Service Contract No. NDO 04/2019 Environmental Team for EM&A Works in Construction Phase for the First Phase Development of KTN and FLN NDAs

Location of Ambient Arsenic Monitoring Station

SCALE	1:20000 (A4)	DATE	Jun 2020
CHECK	IT	DRAWN	ML
PROJECT No.	WMA20002	FIGURE NO. 7	REV -



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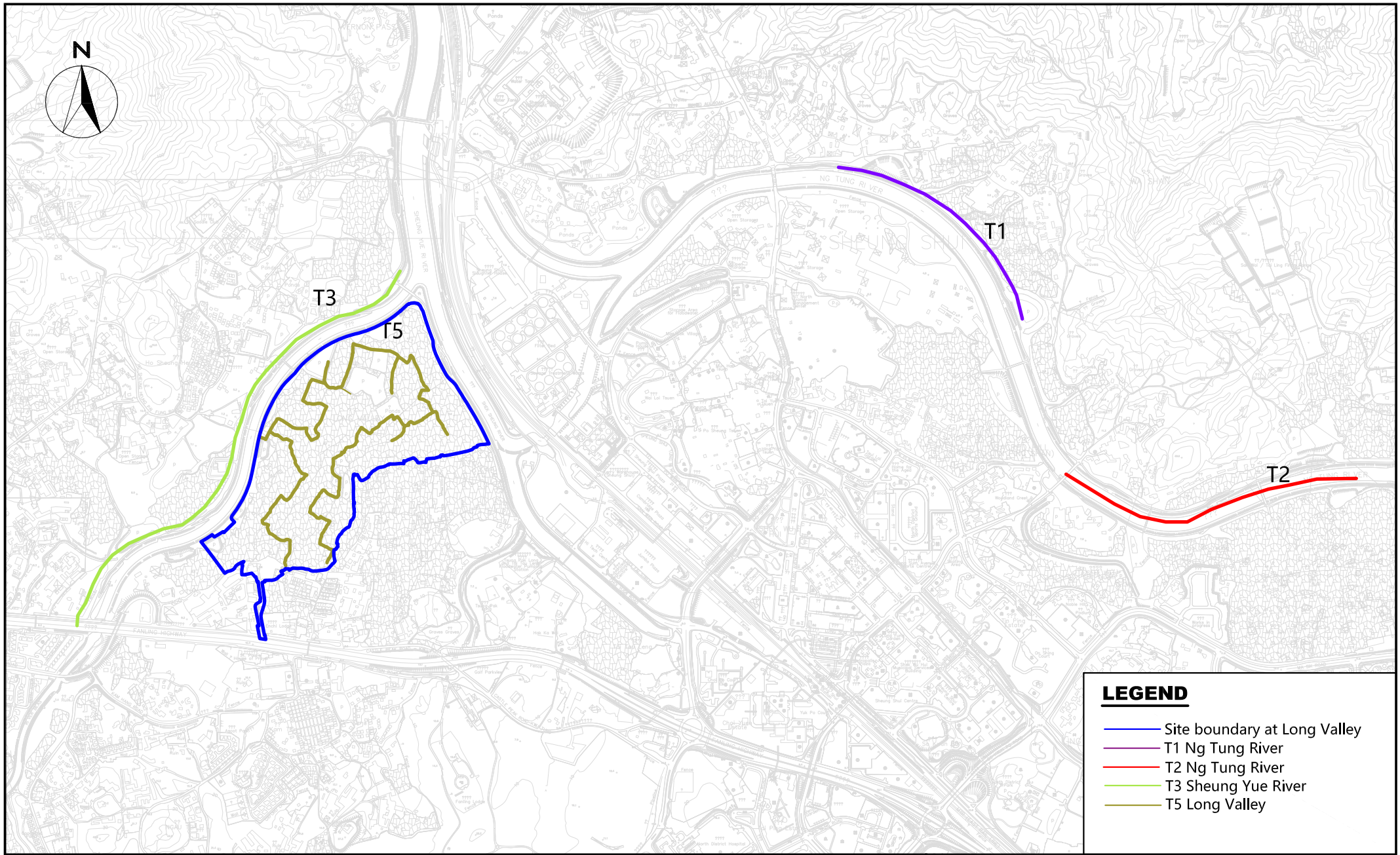
Service Contract No. NDO 04/2019 Environmental Team for EM&A Works in Construction Phase for the First Phase Development of KTN and FLN NDAs

Location of Landfill Gas Monitoring

SCALE	A4 @ 1:40000	DATE	JAN 2021
CHECK	KL	DRAWN	NL
PROJECT No.	WMA20002	FIGURE NO. 8	REV —



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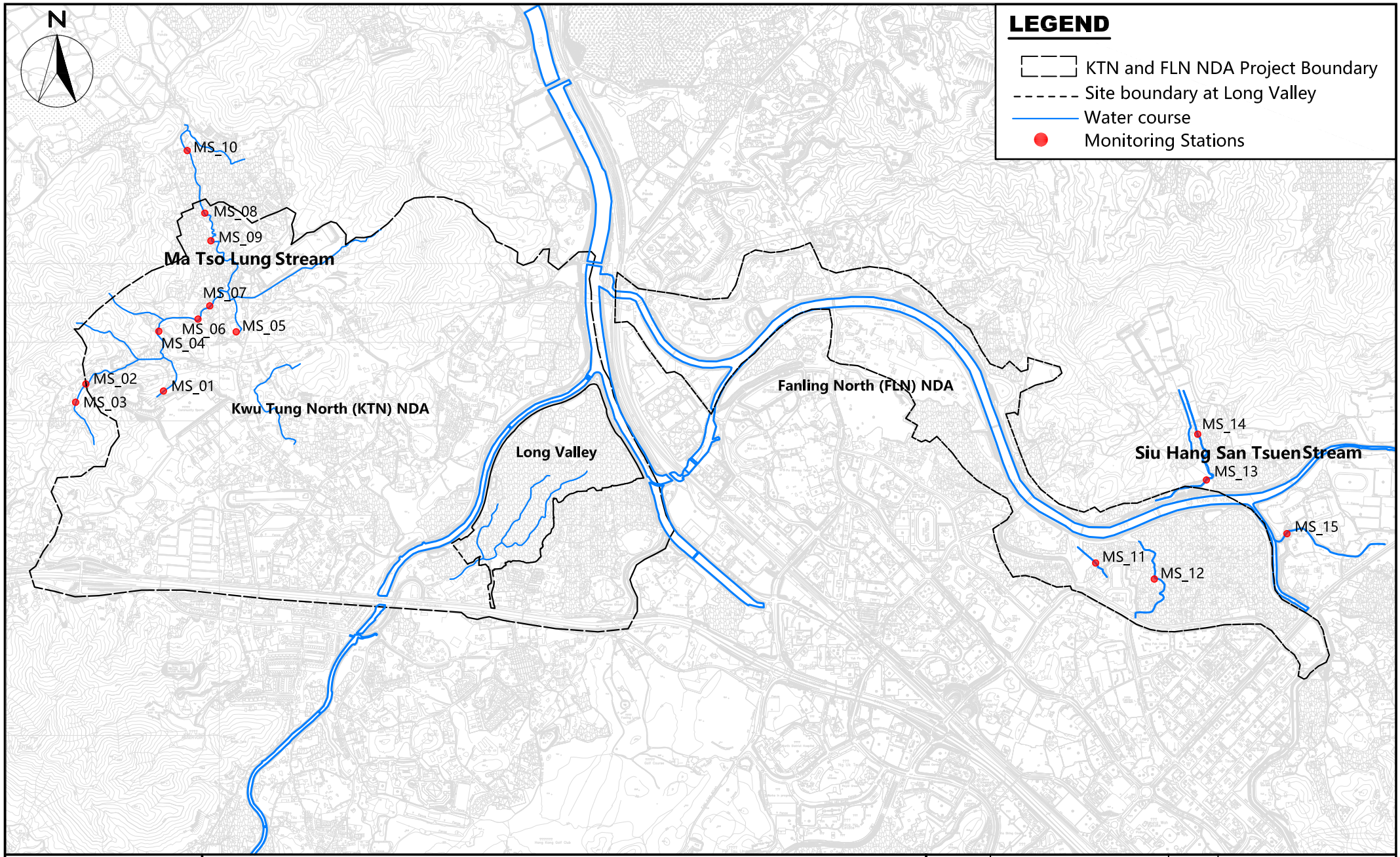
Service Contract No. NDO 04/2019 Environmental Team for EM&A Works in Construction Phase for the First Phase Development of KTN and FLN NDAs

Monitoring of Measures to Minimise Disturbance to Water Birds on Ng Tung, Sheung Yue and Long Valley (Transect Routes for T1 - T3 & T5)

SCALE	A4 @ 1:40000	DATE	MAY 2020
CHECK	IT	DRAWN	KIKI
PROJECT No.	WMA20002	FIGURE NO. 9	REV —



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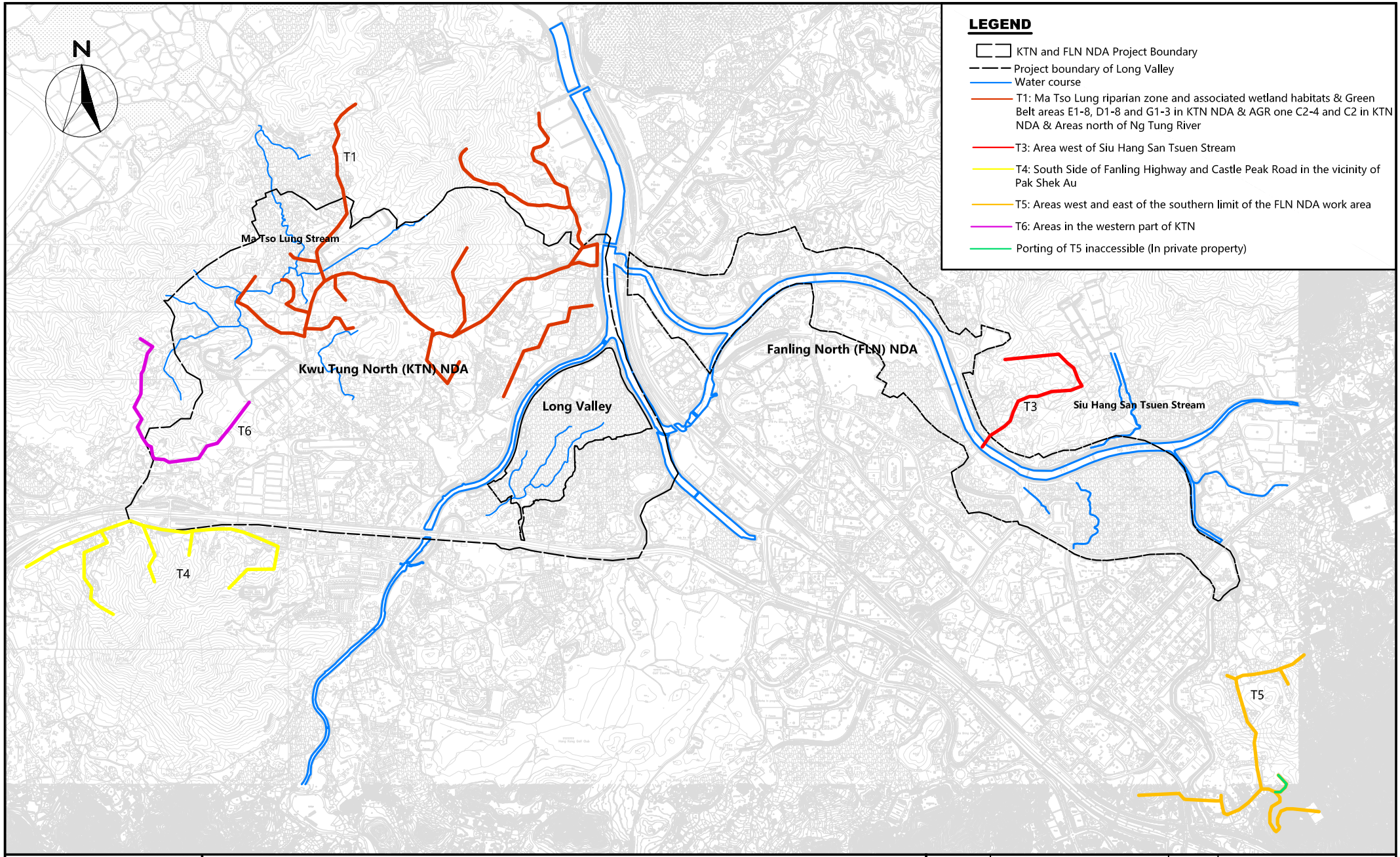
Service Contract No. NDO 04/2019 Environmental Team for EM&A Works in Construction Phase for the First Phase Development of KTN and FLN NDAs

Location of Monitoring Stations at Ma Tso Lung Stream and Siu Hang San Tsuen Stream

SCALE	A4 @ 1:60000	DATE	MAY 2020
CHECK	IT	DRAWN	KIKI
PROJECT No.	WMA20002	FIGURE NO. 10	REV —



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Service Contract No. NDO 04/2019 Environmental Team for EM&A Works in Construction Phase for the First Phase Development of KTN and FLN NDAs

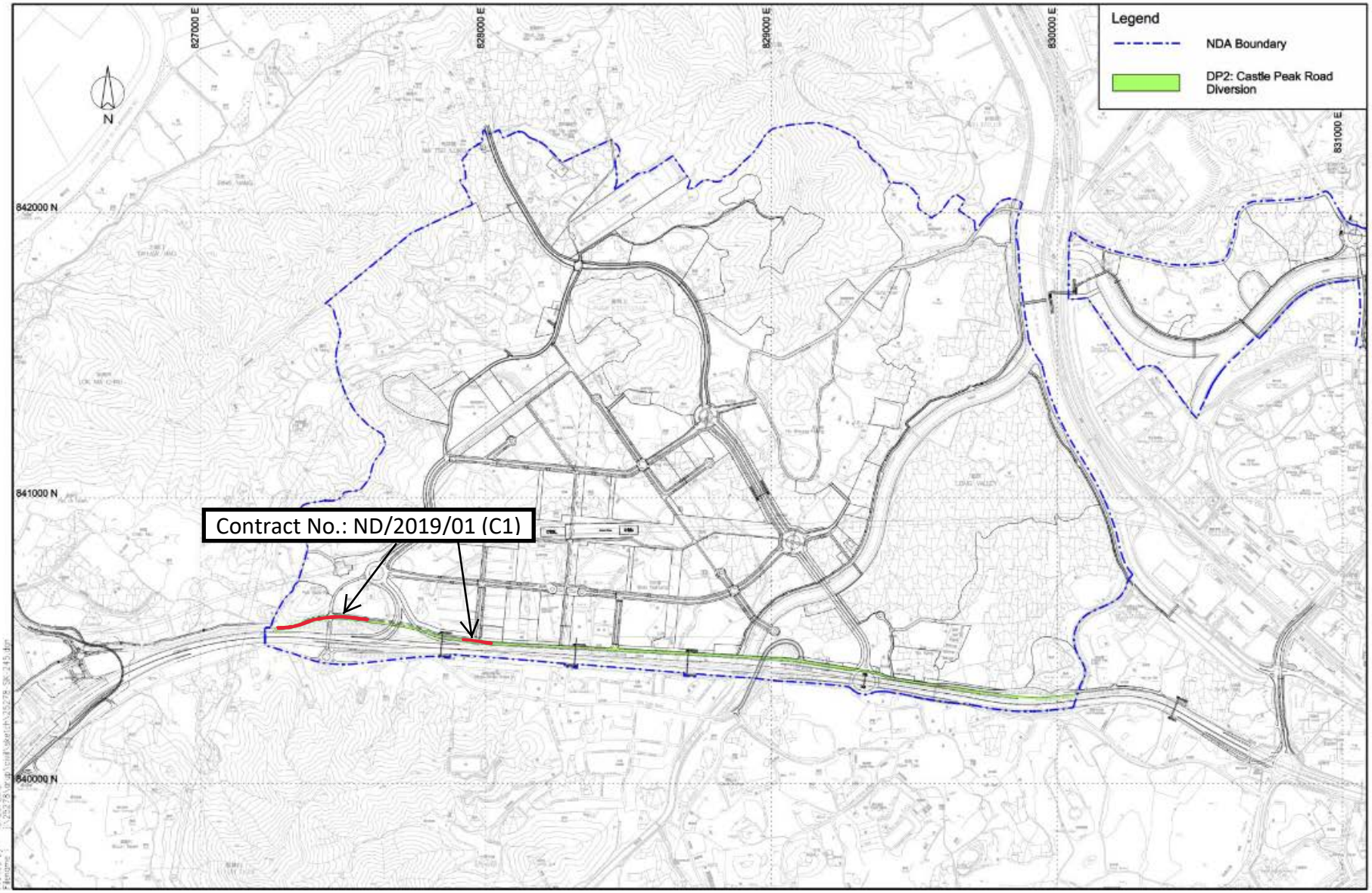
Location of Transect Route of Ecological Sensitive Habitats (Non-Aquatic Fauna) Transects (T1, T3-T6)

SCALE	A4 @ 1:70000	DATE	JUL 2021
CHECK	KL	DRAWN	ML
PROJECT No.	WMA20002	FIGURE NO. 11	REV —

Figure 12

Site Layout Plan of Contract ND/2019/01

under EP-466/2013/A



Project Title: Castle Peak Road Diversion

Figure 1: Location Plan for Castle Peak Road Diversion Project

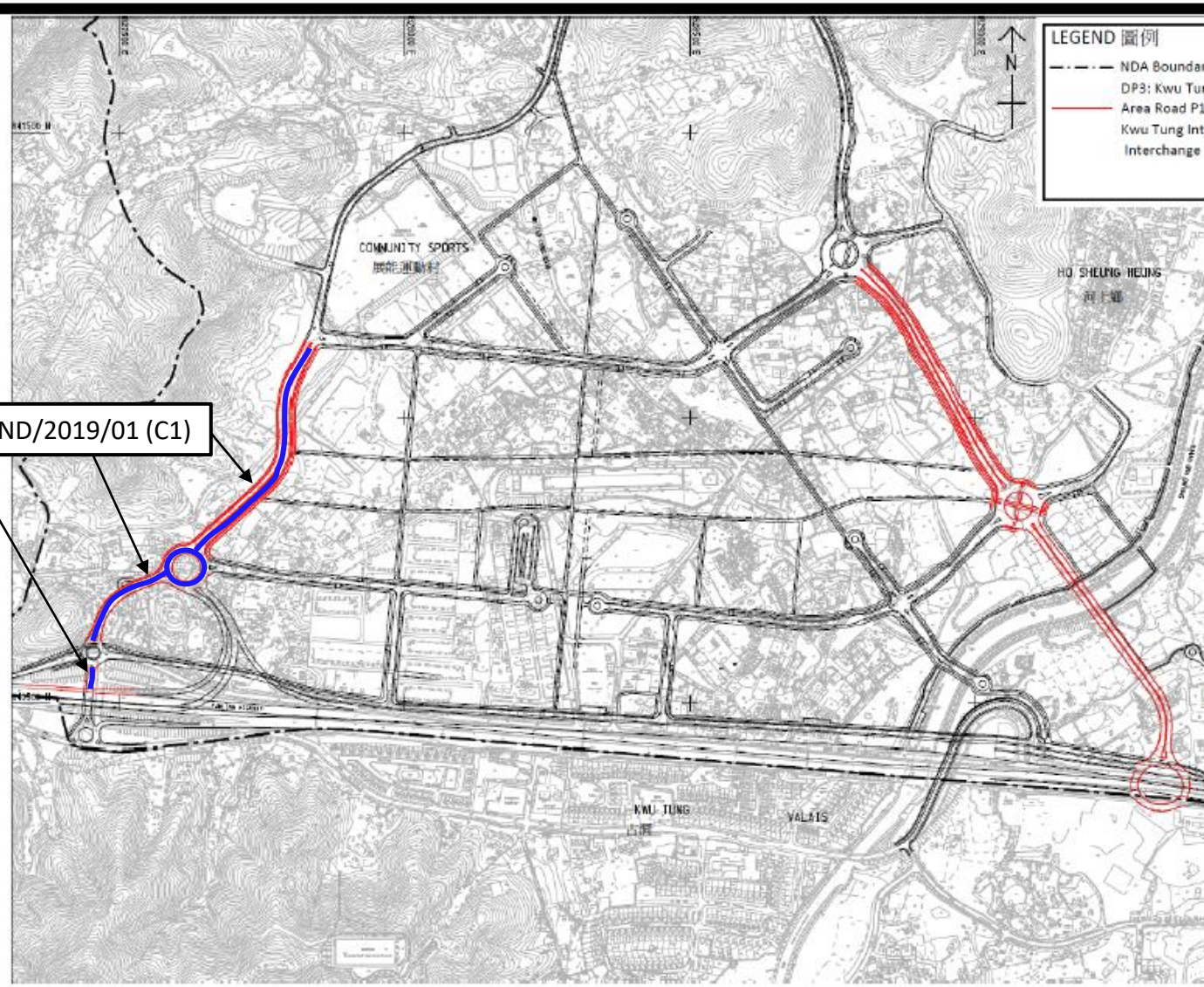
(Extracted from Drawing No. SK/245 of North East New Territories New Development Area Planning and Engineering Study)

Environmental Permit No: EP-466/2013/A

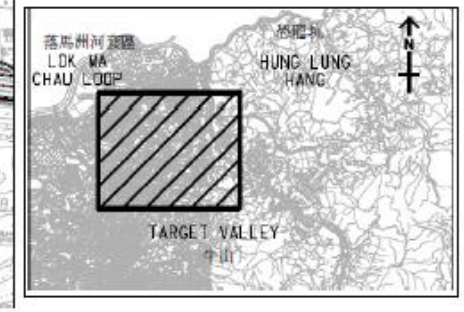
Figure 13

Site Layout Plan of Contract ND/2019/01

under EP-467/2013/A



KEY PLAN 索引圖



Project Title: **Kwu Tung North New Development Area Road P1 and P2 and Associated New Kwu Tung Interchange and Pak Shek Au Interchange Improvement**

工程名稱: 古洞北新發展區P1和P2路（新路）和相關的新古洞交匯處（新路）與白石凹交匯處改善工程

Figure 1: Location Plan for Interchange Improvement (Indicative)

(This figure was prepared based on Figure 1.2 of VEP application (No.: VEP-523/2016))

圖1：交匯處改善工程位置 (示意圖)

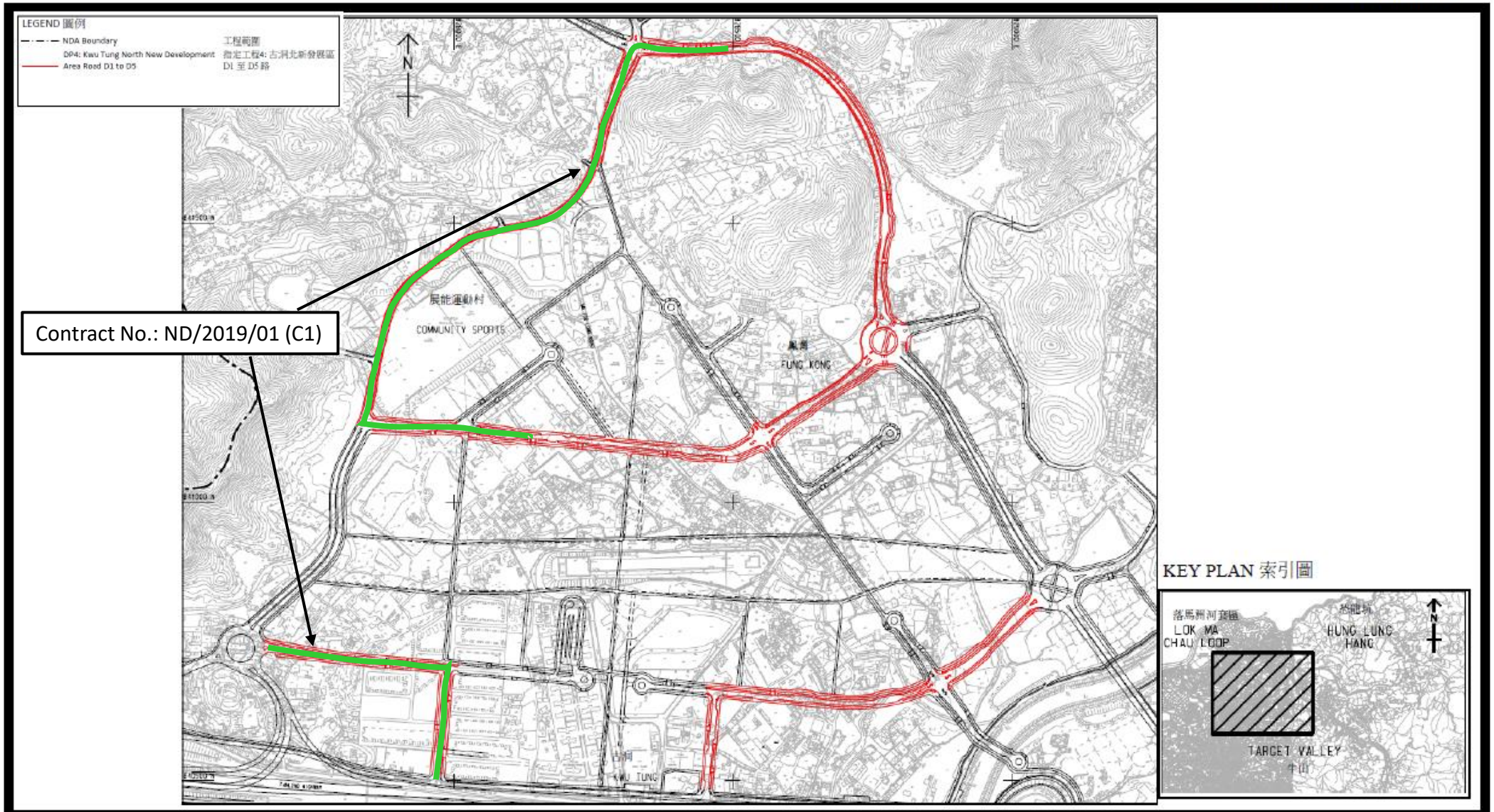
(本圖是根據申請更改環境許可證(編號: VEP-523/2016)圖1.2編制)

Environmental Permit No:
EP-467/2013/A
環境許可證編號：
EP-467/2013/A

Figure 14

Site Layout Plan of Contract ND/2019/01

under EP-468/2013/A



Project Title: **Kwu Tung North New Development Area Road D1 to D5**
工程名稱: 古洞北新發展區D1至D5路

Environmental Permit No:
EP-468/2013/A
環境許可證編號：
EP-468/2013/A

Figure 1: Location Plan for The Project (Indicative)
(This figure was prepared based on Figure 1.4 of VEP application (No.: VEP-524/2016))

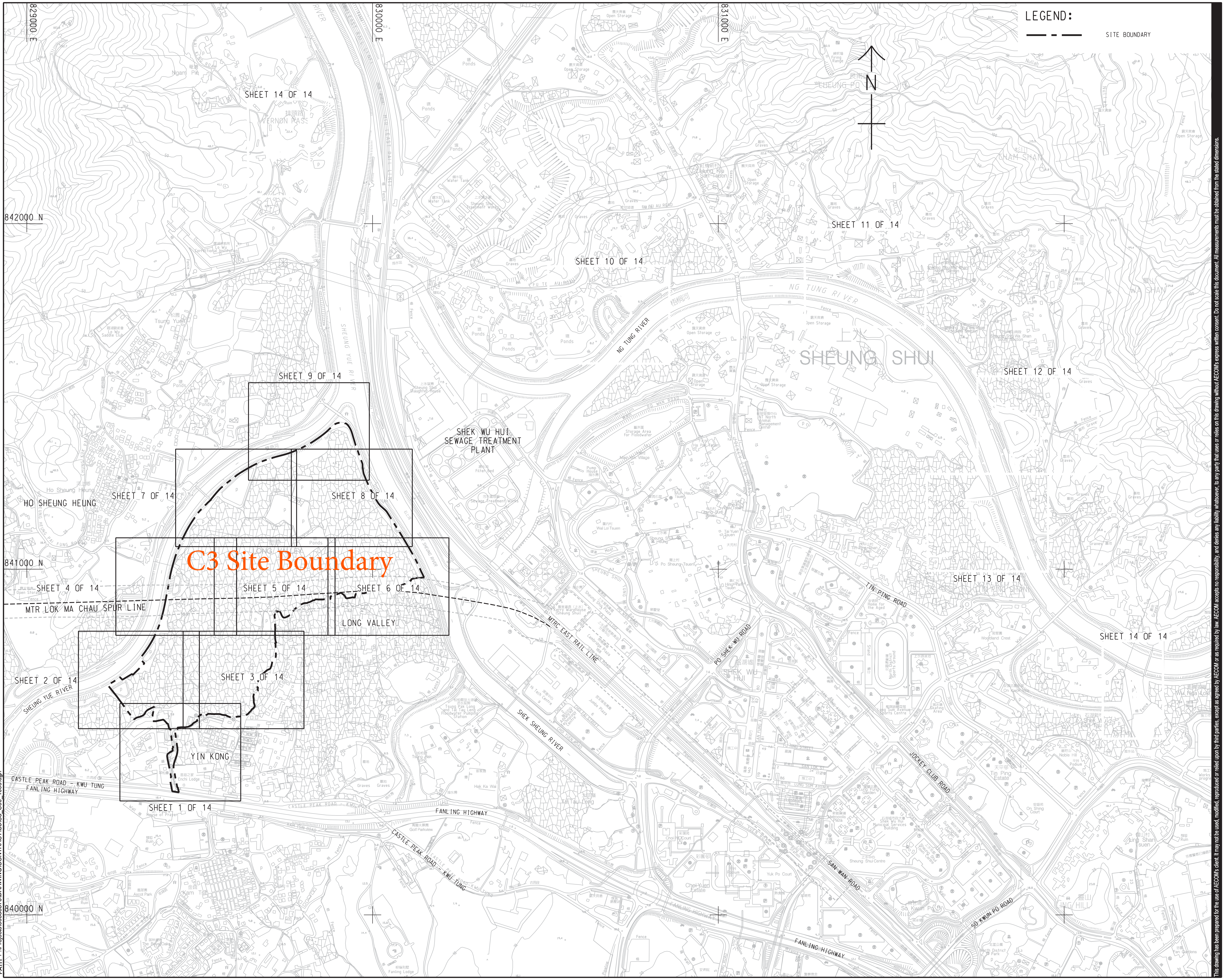
圖1：工程項目位置 (示意圖)
(本圖是根據申請更改環境許可證(編號: VEP-524/2016)圖1.4編制)

Figure 15

Site Layout Plan of Contract ND/2019/03

under EP-468/2013/A

Project Management Initials: Designer: KCTL Checked: CYCH Approved: IHWL ISO A1 594mm x 841mm



Sang Hing - Kuly Venture

Title of Designated Project
Kwu Tung North New Development Area Road D1 to D5

CLIENT 業主

土木工程拓展署
CEDD Civil Engineering and Development Department

CONSULTANT 工程顧問公司

AECOM Asia Company Ltd.
www.aecom.com

SUB-CONSULTANTS 分判工程顧問公司

ISSUE/REVISION 修訂

I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 複核
-	JUN-19	TENDER DRAWING	CYCH

STATUS 階段

SCALE 比例 A1 1 : 5000

DIMENSION UNIT 尺寸單位 METRES

KEY PLAN 索引圖

PROJECT NO. 項目編號 60335576

CONTRACT NO. 合約編號 ND/2019/03

SHEET TITLE 圖紙名稱

KEY PLAN OF
GENERAL LAYOUT

SHEET NUMBER 圖紙編號

60335576/C3/C00/1000

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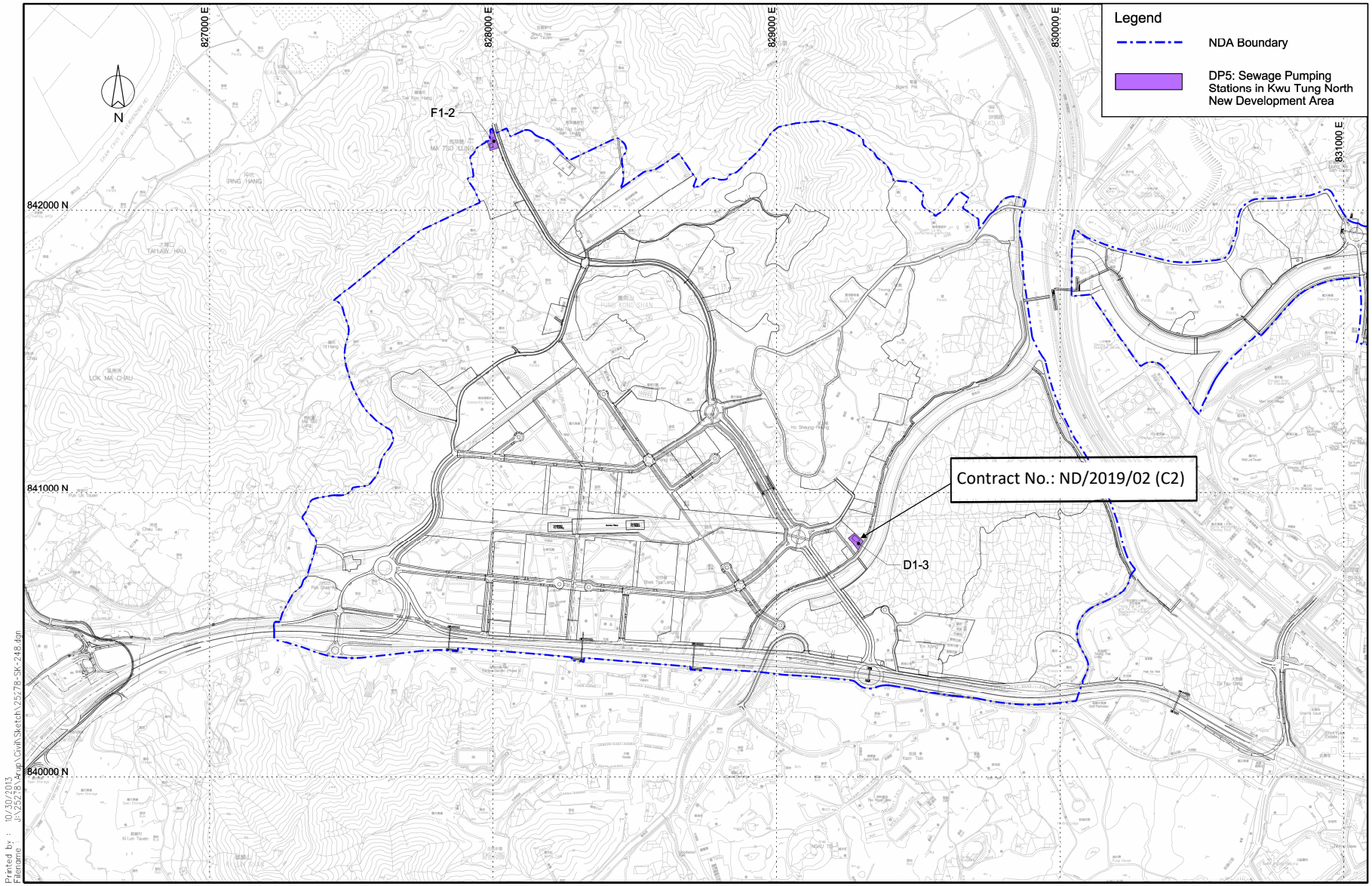
Plot File by: Yauky 11/6/2019
PATH P:\Projects\60335576\DRAWING\CONTRACT\C3\C3_C00_1000.dgn

Figure 16

Site Layout Plan of Contract ND/2019/02

under EP-469/2013



Project Title: Sewage Pumping Stations in Kwu Tung North New Development Area

Figure 1: Location Plan for the Proposed Pumping Stations

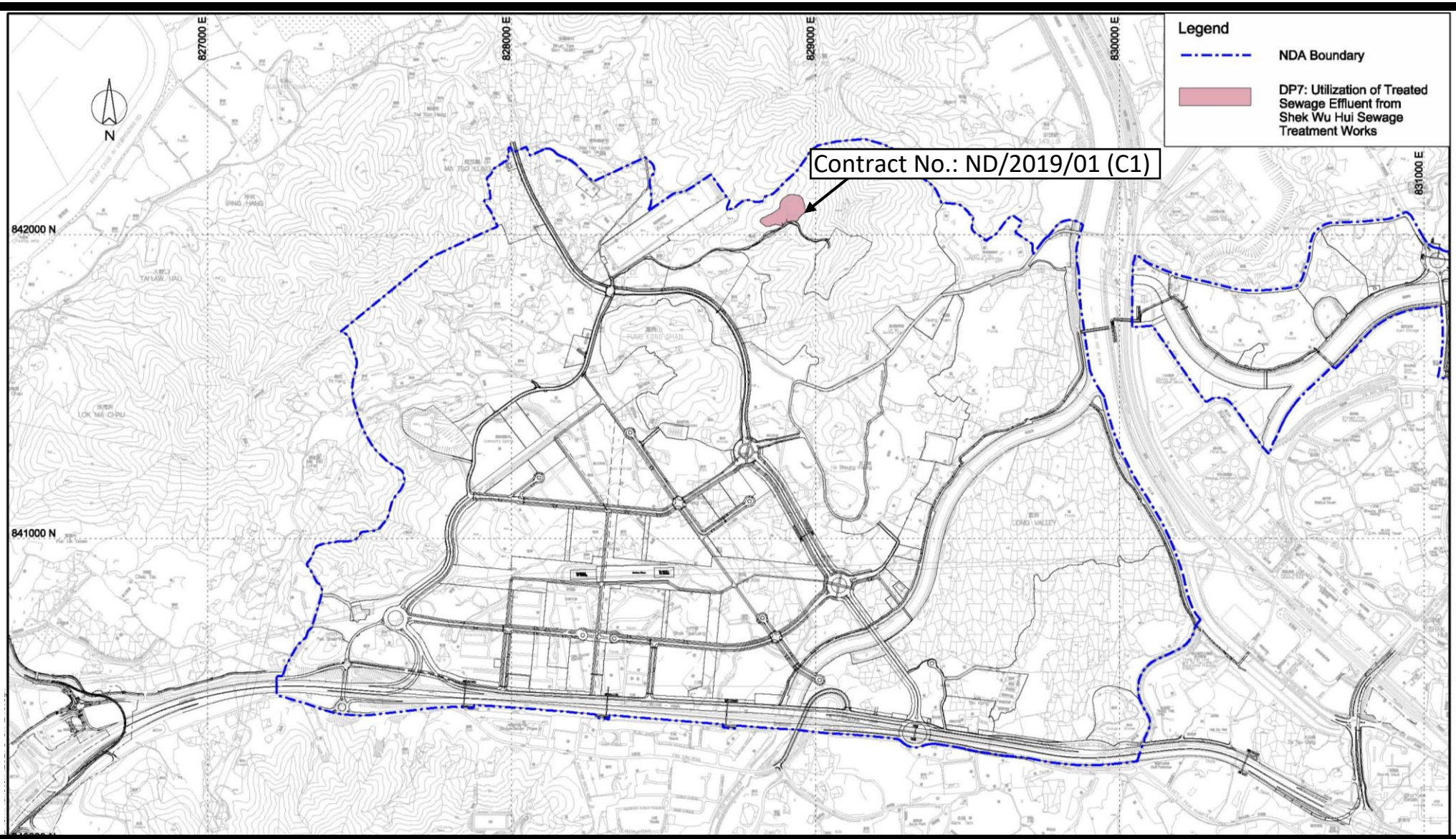
(Extracted from Drawing No. SK/248 of North East New Territories New Development Area Planning and Engineering Study)

Environmental Permit No: EP-469/2013

Figure 17

Site Layout Plan of Contract ND/2019/01

under EP-470/2013/A



Project Title: Utilization of Treated Sewage Effluent (TSE) from Shek Wu Hui Sewage Treatment Works

Figure 1: Location Plan for the Project

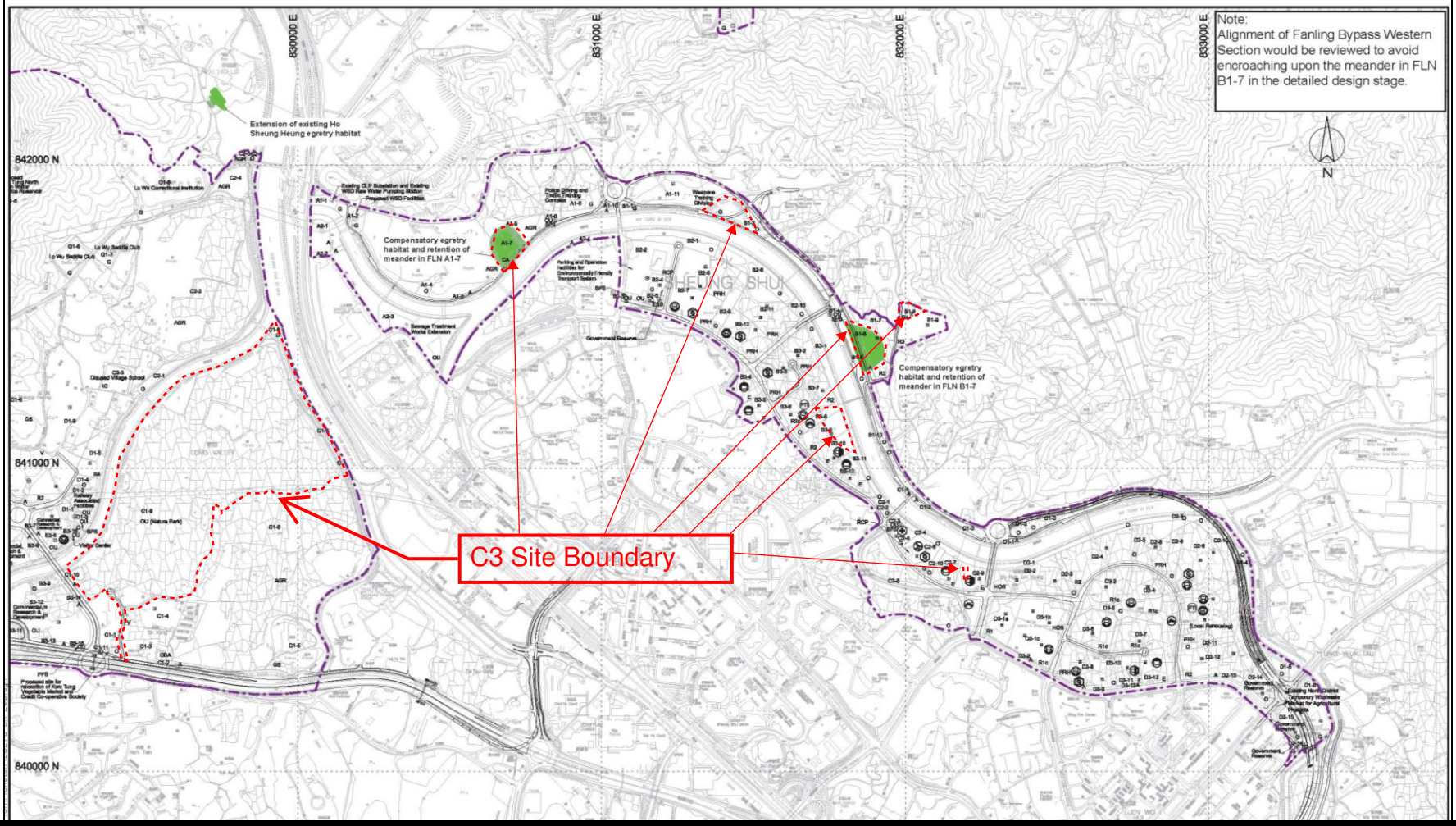
(Extracted from Drawing No. SK/249 of North East New Territories New Development Area Planning and Engineering Study)

Environmental Permit No: EP-470/2013/A

Figure 18

Site Layout Plan of Contract ND/2019/03

under EP-473/2013/A



Project Title: **Fanling Bypass Eastern Section**
工程名稱: 粉嶺繞道東段

Figure 2: **Location of Alternative Egretry Sites and Retained Meanders**
圖 2: 替代鷺鳥林選址和保留河曲的位置

(Extracted from Drawing No. SK/254 of North East New Territories New Development Area Planning and Engineering Study)

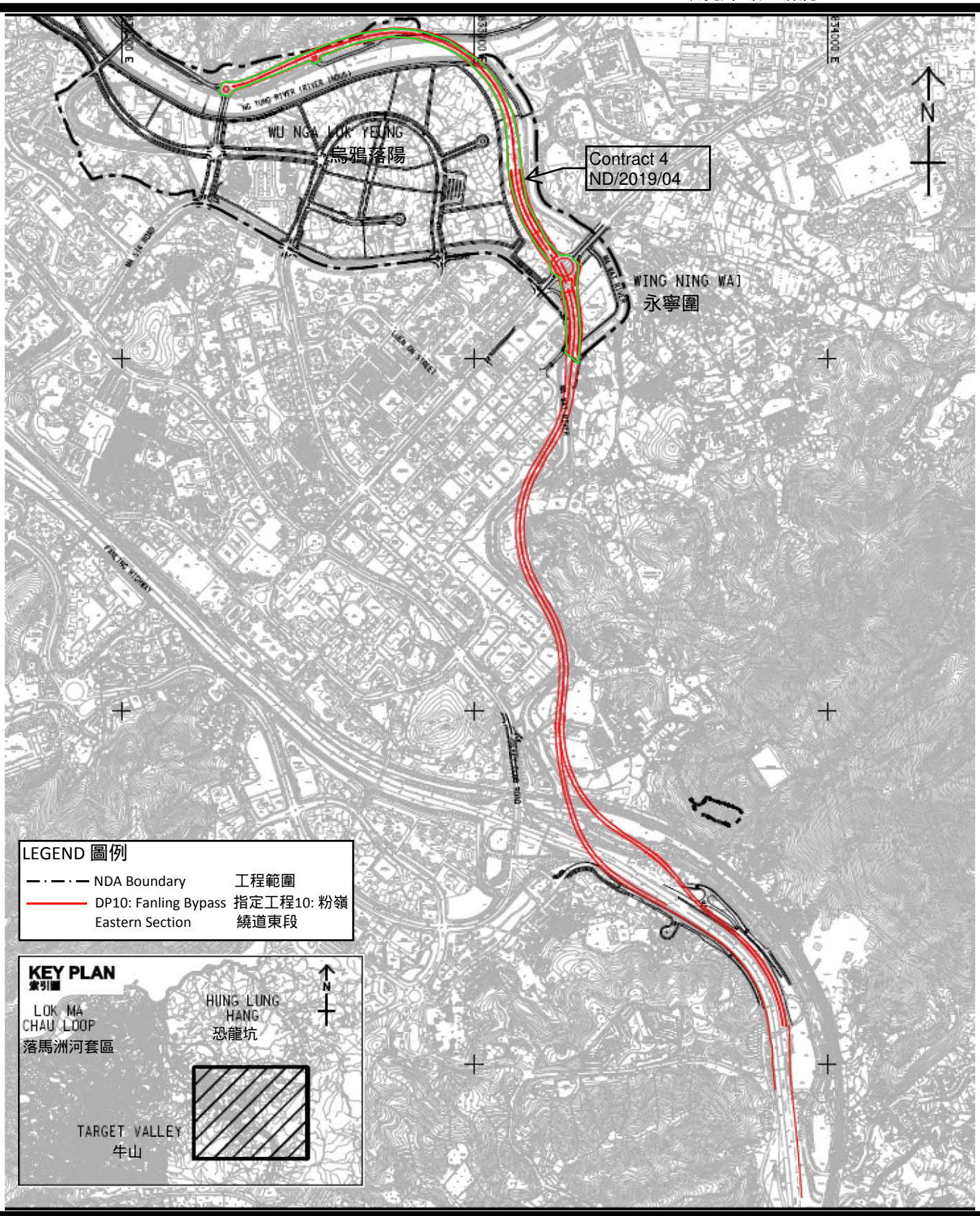
(摘錄自新界東北新發展區規劃及工程研究 圖: SK/254)

Environmental Permit No:
EP-473/2013/A
環境許可證編號：EP-473/2013/A

Figure 19

Site Layout Plan of Contract ND/2019/04

under EP-473/2013/A



Project Title: Fanling Bypass Eastern Section

工程名稱: 粉嶺繞道東段

Figure 1: Location Plan for the Project (Indicative)

圖 1: 工程項目位置 (示意圖)

This figure was prepared based on Figure 1.1 of VEP application (No.:VEP-526/2016)

本圖是根據申請更改環境許可證(編號: VEP-526/2016)圖1.1編制

Environmental Permit No: EP-473/2013/A

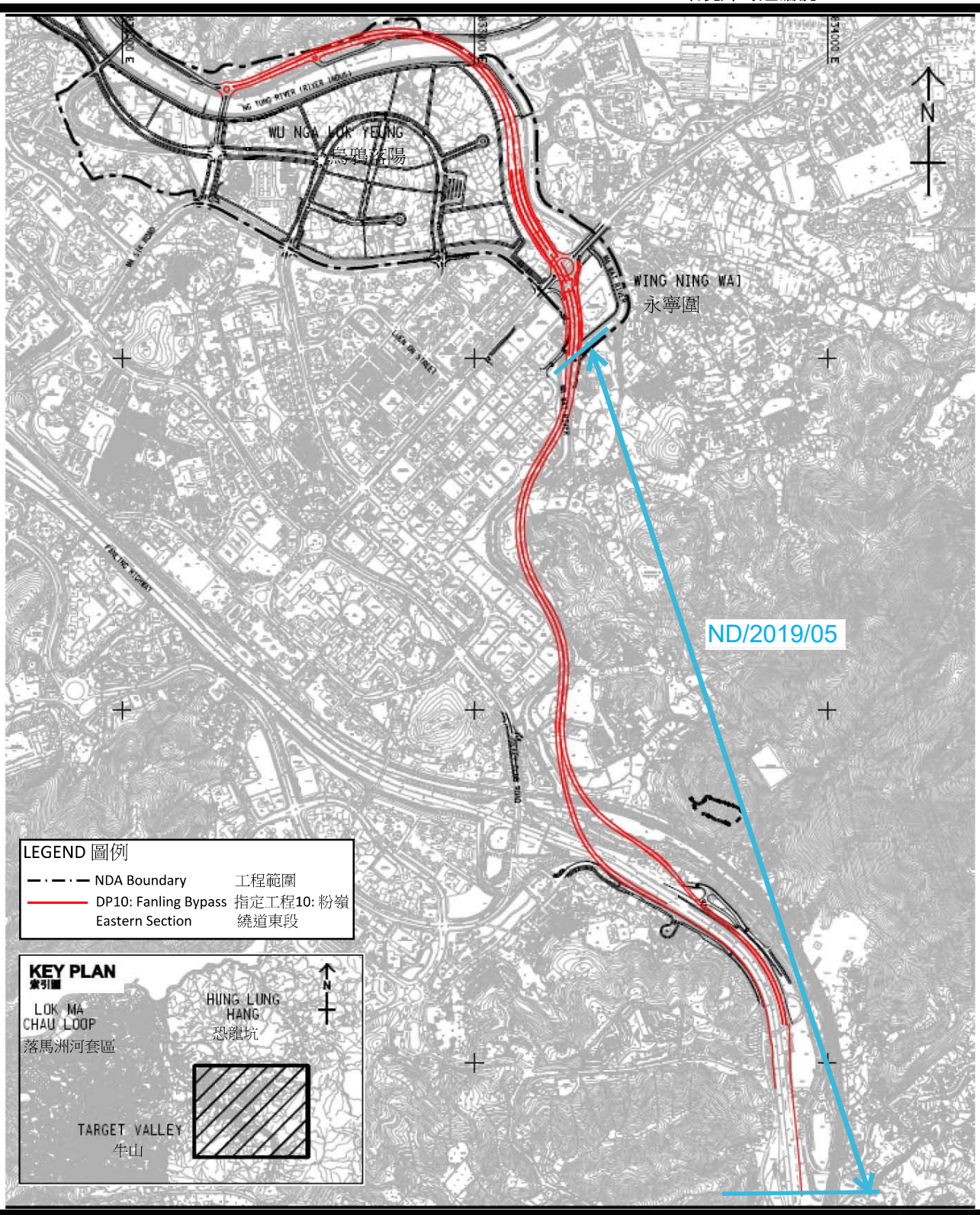
環境許可證編號:

EP-473/2013/A

Figure 20

Site Layout Plan of Contract ND/2019/05

under EP-473/2013/A



Project Title: Fanling Bypass Eastern Section

工程名稱: 粉嶺繞道東段

Figure 1: Location Plan for the Project (Indicative)

圖 1: 工程項目位置 (示意圖)

This figure was prepared based on Figure 1.1 of VEP application (No.:VEP-526/2016)

本圖是根據申請更改環境許可證(編號: VEP-526/2016)圖1.1編制

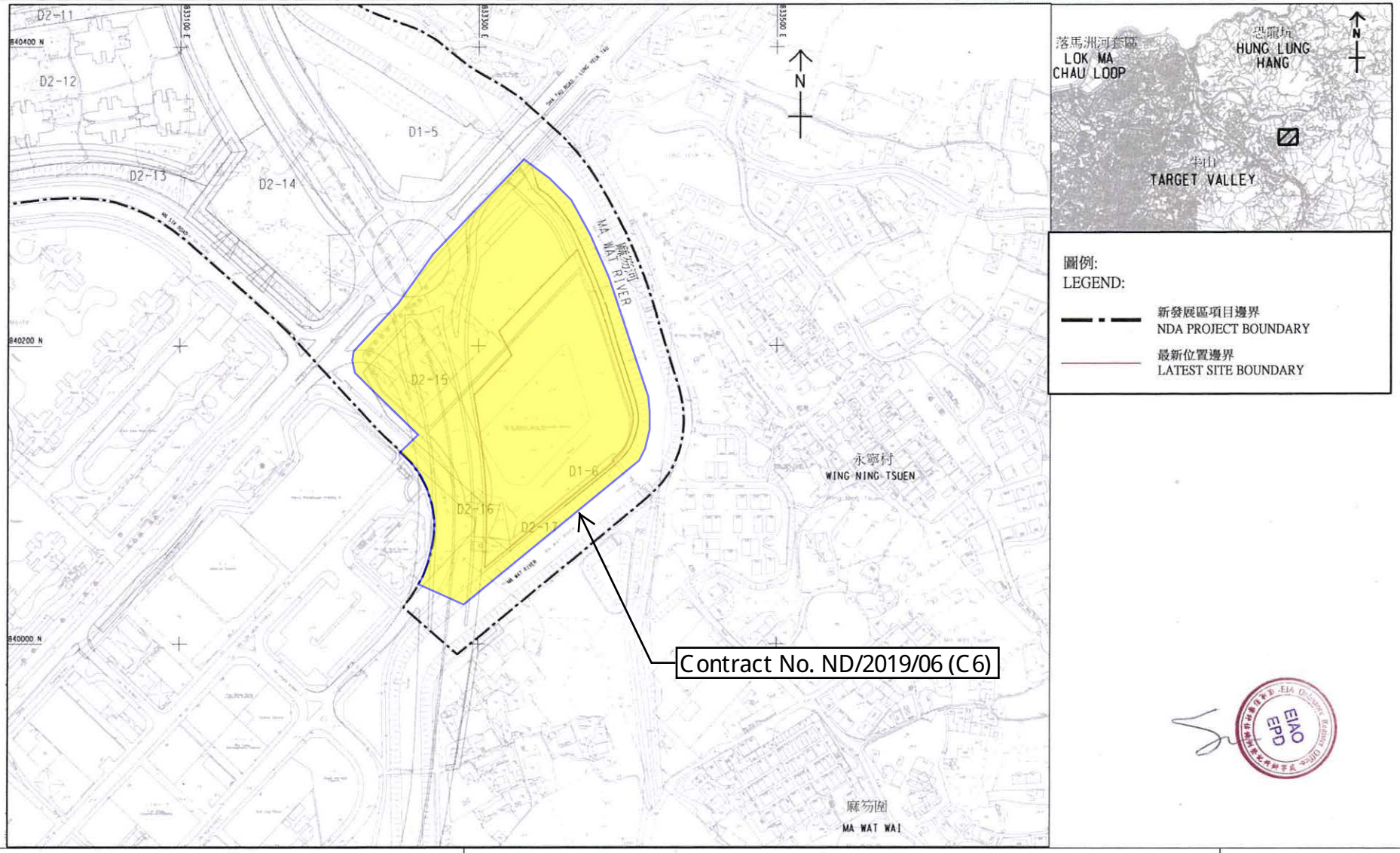
Environmental Permit No: EP-473/2013/A

環境許可證編號: EP-473/2013/A

Figure 21

Site Layout Plan of Contract ND/2019/06

under EP-475/2013/A



Project Title: NENT - Reprovision of temporary Wholesale Market in Fanling North New Development Area
工程名稱：粉嶺北新發展區重置臨時批發市場

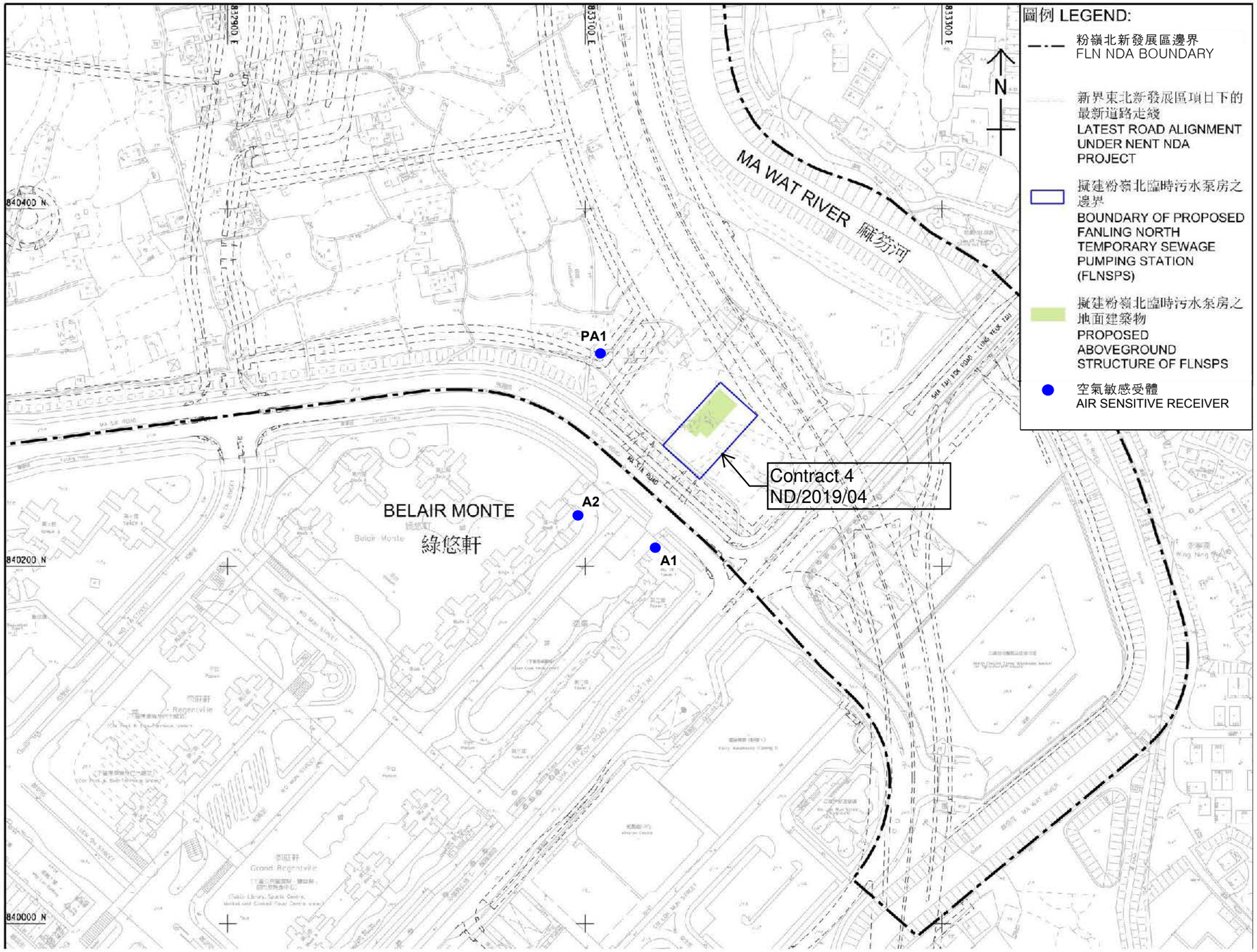
Environmental Permit No.: EP-475/2013/A
環境許可證編號 ：**EP-475/2013/A**

Figure 1: Project Location Plan (Indicative)
圖 1：工程項目位置圖 (示意圖)
(This figure was prepared based on Figure 1.1 of VEP application (No.: VEP-516/2016))
(本圖是根據申請更改環境許可證(編號 VEP-516/2016) 圖 1.1 編制)

Figure 22

Site Layout Plan of Contract ND/2019/04

under EP-546/2017



Project Title: Fanling North Temporary Sewage Pumping Station
工程名稱：粉嶺北臨時污水泵房

Environmental Permit No.: EP-546/2017
環境許可證編號　　：**EP-546/2017**

Figure 1: Project Location Plan (Indicative)
圖 1：工程項目位置圖 (示意圖)
(This figure was prepared based on Figure 1.1 of Project Profile No: PP-557/2017
(本圖是根據工程項目簡介編號: PP-557/2017 圖 1.1 編制)

APPENDIX A
CONSTRUCTION PROGRAMME

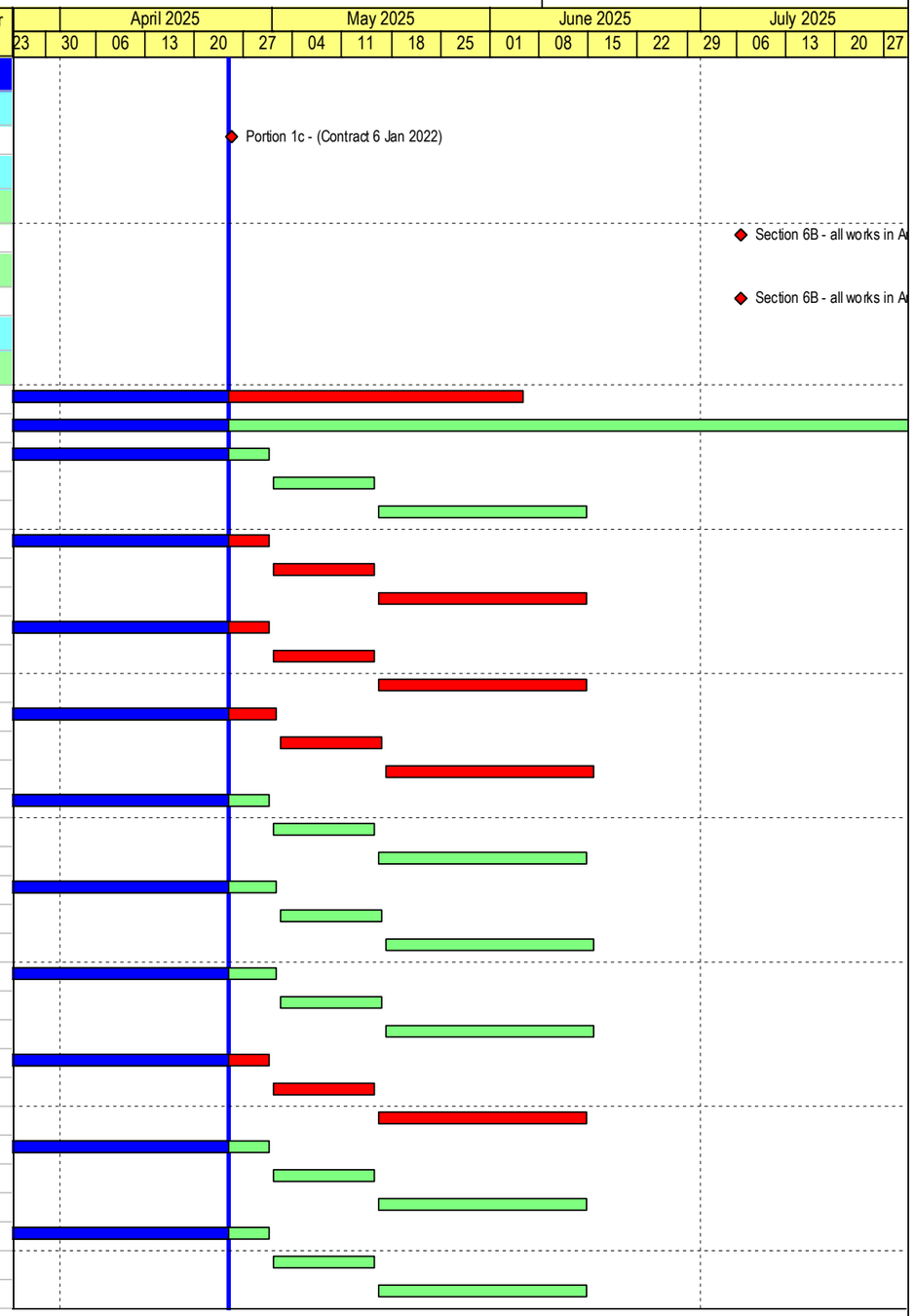
Construction Programme of ND/2019/01

ND/2019/01 - Kwu Tung North New Development Area, Phase 1:Site Formation and Infrastructure Works

AECOM

CEDD 土木工程拓展署 Civil Engineering and Development Department

Activity ID	Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar
Revised Programme (2025-04-25) Rev.0 draft						
2.0 - Site Access Dates						
AD-1020	Portion 1c - (Contract 6 Jan 2022)	0	25-Apr-25*		-1205	CD(7d)
3.0 - Site Completion Dates						
3.1 Sectional Work Completion (Orignial Contract Completion Date)						
SC0-1090	Section 6B - all works in Area G2	0		06-Jul-25*	0	CD(7d)
3.2 Planned Sectional Work Completeion						
SC-1090	Section 6B - all works in Area G2	0		06-Jul-25*	0	CD(7d)
6.0 - Prelimiaries and General Requirements						
6.2 - General Submissions						
GS-1230	Submission of Major Method Statements	42	06-Dec-19 A	05-Jun-25	-239	CD(7d)
GS-1290	Preparation and Submission of Fully Corodinated BIM	450	21-Aug-20 A	24-Jul-26	239	CD(7d)
GS-1310.0	Water Supply to WSD for Irrigation System (Road D1-1) - WWO542 Approval	6	12-Feb-25 A	30-Apr-25	95	CD(7d)
GS-1310.2	Water Supply to WSD for Irrigation System (Road D1-1) - WWO46 Part I II Submission	15	01-May-25	15-May-25	95	CD(7d)
GS-1310.4	Water Supply to WSD for Irrigation System (Road D1-1) - WWO46 Part I II Approval	30	16-May-25	14-Jun-25	95	CD(7d)
GS-1320.0	Water Supply to WSD for Irrigation System (Road P1) Along Footpath - WWO542 Approval	6	12-Feb-25 A	30-Apr-25	-71	CD(7d)
GS-1320.2	Water Supply to WSD for Irrigation System (Road P1) Along Footpath - WWO46 Part I II Submission	15	01-May-25	15-May-25	-71	CD(7d)
GS-1320.4	Water Supply to WSD for Irrigation System (Road P1) Along Footpath - WWO46 Part I II Approval	30	16-May-25	14-Jun-25	-71	CD(7d)
GS-1330.0	Water Supply to WSD for Irrigation System (Road P1) Along Slope - WWO542 Approval	6	12-Feb-25 A	30-Apr-25	-64	CD(7d)
GS-1330.2	Water Supply to WSD for Irrigation System (Road P1) Along Slope - WWO46 Part I II Submission	15	01-May-25	15-May-25	-64	CD(7d)
GS-1330.4	Water Supply to WSD for Irrigation System (Road P1) Along Slope - WWO46 Part I II Approval	30	16-May-25	14-Jun-25	-64	CD(7d)
GS-1340.0	Water Supply to WSD for Irrigation System Castle Peak Road (PKSA North) - WWO542 Approval (CE 268)	6	12-Feb-25 A	01-May-25	-215	CD(7d)
GS-1340.2	Water Supply to WSD for Irrigation System Castle Peak Road (PKSA North) - WWO46 Part I II Submission (CE 268)	15	02-May-25	16-May-25	-215	CD(7d)
GS-1340.4	Water Supply to WSD for Irrigation System Castle Peak Road (PKSA North) - WWO46 Part I II Approval (CE 268)	30	17-May-25	15-Jun-25	-215	CD(7d)
GS-1350.0	Water Supply to WSD for Irrigation System Kwu Tong Road (PKSA South) - WWO542 Approval (CE 268)	6	12-Feb-25 A	30-Apr-25	153	CD(7d)
GS-1350.2	Water Supply to WSD for Irrigation System Kwu Tong Road (PKSA South) - WWO46 Part I II Submission (CE 268)	15	01-May-25	15-May-25	153	CD(7d)
GS-1350.4	Water Supply to WSD for Irrigation System Kwu Tong Road (PKSA South) - WWO46 Part I II Approval (CE 268)	30	16-May-25	14-Jun-25	153	CD(7d)
GS-1360.0	Water Supply to WSD for Irrigation System (Road D1-2) - East Bound Footpath - WWO542 Approval	6	12-Feb-25 A	01-May-25	164	CD(7d)
GS-1360.2	Water Supply to WSD for Irrigation System (Road D1-2) - East Bound Footpath - WWO46 Part I II Submission	15	02-May-25	16-May-25	164	CD(7d)
GS-1360.4	Water Supply to WSD for Irrigation System (Road D1-2) - East Bound Footpath - WWO46 Part I II Approval	30	17-May-25	15-Jun-25	164	CD(7d)
GS-1370.0	Water Supply to WSD for Irrigation System (Road D1-2) - West Bound Footpath - WWO542 Approval	6	12-Feb-25 A	01-May-25	164	CD(7d)
GS-1370.2	Water Supply to WSD for Irrigation System (Road D1-2) - West Bound Footpath - WWO46 Part I II Submission	15	02-May-25	16-May-25	164	CD(7d)
GS-1370.4	Water Supply to WSD for Irrigation System (Road D1-2) - West Bound Footpath - WWO46 Part I II Approval	30	17-May-25	15-Jun-25	164	CD(7d)
GS-1380.0	Water Supply to WSD for Irrigation System (Road L1) - WWO542 Approval	6	12-Feb-25 A	30-Apr-25	-310	CD(7d)
GS-1380.2	Water Supply to WSD for Irrigation System (Road L1) - WWO46 Part I II Submission	15	01-May-25	15-May-25	-310	CD(7d)
GS-1380.4	Water Supply to WSD for Irrigation System (Road L1) - WWO46 Part I II Approval	30	16-May-25	14-Jun-25	-310	CD(7d)
GS-1390.0	Water Supply to WSD for Irrigation System (Road D3) - East Bound Footpath - WWO542 Approval	6	12-Feb-25 A	30-Apr-25	58	CD(7d)
GS-1390.2	Water Supply to WSD for Irrigation System (Road D3) - East Bound Footpath - WWO46 Part I II Submission	15	01-May-25	15-May-25	58	CD(7d)
GS-1390.4	Water Supply to WSD for Irrigation System (Road D3) - East Bound Footpath - WWO46 Part I II Approval	30	16-May-25	14-Jun-25	58	CD(7d)
GS-1400.0	Water Supply to WSD for Irrigation System (Road D3) - West Bound Footpath - WWO542 Approval	6	12-Feb-25 A	30-Apr-25	65	CD(7d)
GS-1400.2	Water Supply to WSD for Irrigation System (Road D3) - West Bound Footpath - WWO46 Part I II Submission	15	01-May-25	15-May-25	65	CD(7d)
GS-1400.4	Water Supply to WSD for Irrigation System (Road D3) - West Bound Footpath - WWO46 Part I II Approval	30	16-May-25	14-Jun-25	65	CD(7d)



Build King – Richwell Engineering Joint Venture

- Planned Work
- Critical Work
- Actual Work
- Milestone
- Milestone Critical
- Summary LOE
- Summary LOE Critical

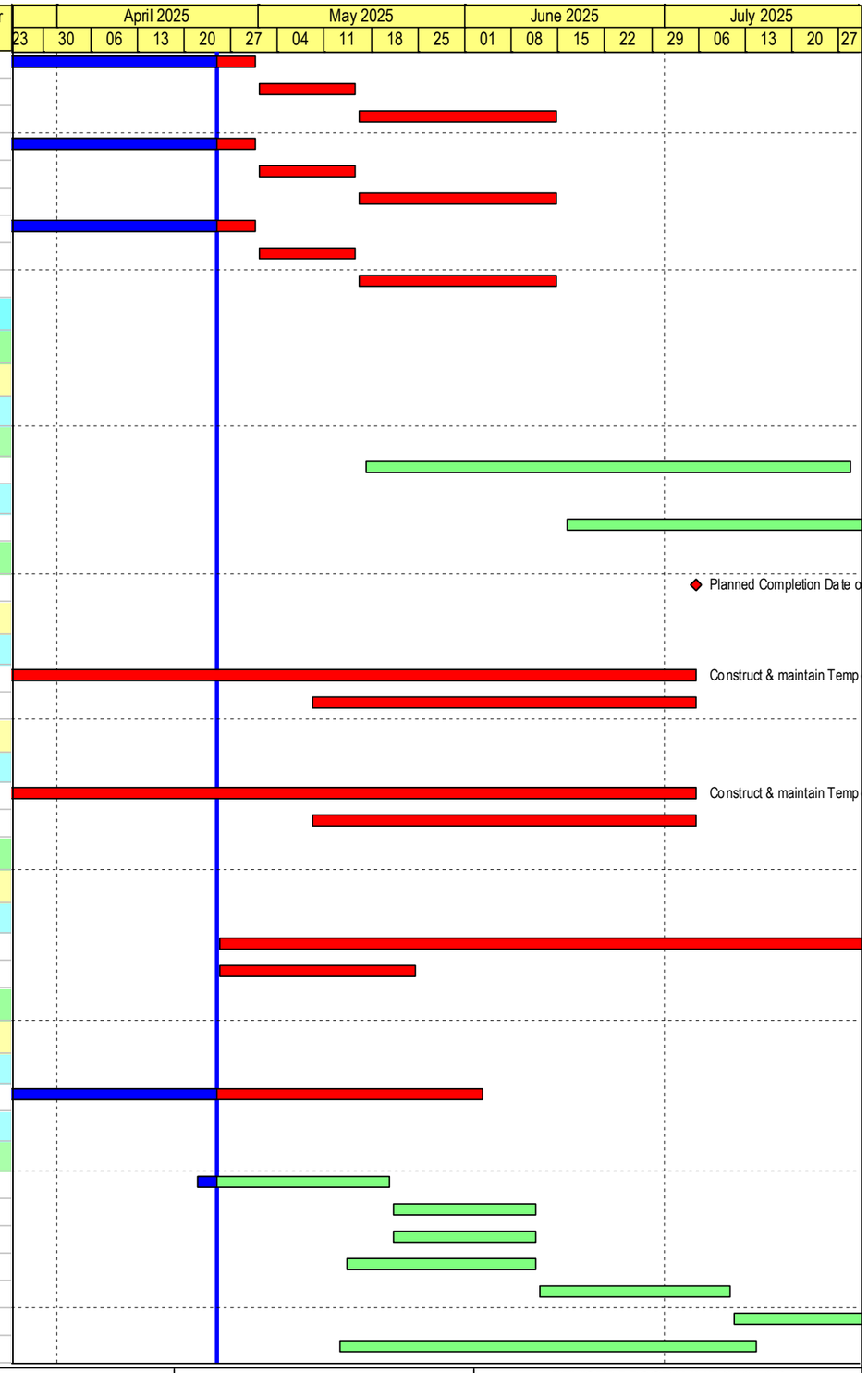
ND/2019/01 - 3 Month Rolling Programme (2025-04)

Data Date: 25-Apr-25 Run Date: 30-Apr-2025

Project ID: ND201901-RP 62
Lauyout: ND201901-3MRP with logo
Page 1 of 18

REVISED PROGRAMME (2025-04)			
Date	Revision	Checked	Approved
30-Apr-25	Rev.0	SC	BY

Activity ID	Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar
GS-1410.0	Application & Approval for Water Supply to WSD for Irrigation System (Road D4) - WWO542 Approval	6	12-Feb-25 A	30-Apr-25	-100	CD(7d)
GS-1410.2	Application & Approval for Water Supply to WSD for Irrigation System (Road D4) - WWO46 Part I II Submission	15	01-May-25	15-May-25	-100	CD(7d)
GS-1410.4	Application & Approval for Water Supply to WSD for Irrigation System (Road D4) - WWO46 Part I II Approval	30	16-May-25	14-Jun-25	-100	CD(7d)
GS-1420.0	Water Supply to WSD for Irrigation System (Road D5) - East Bound Footpath - WWO542 Approval	6	12-Feb-25 A	30-Apr-25	-257	CD(7d)
GS-1420.2	Water Supply to WSD for Irrigation System (Road D5) - East Bound Footpath - WWO46 Part I II Submission	15	01-May-25	15-May-25	-257	CD(7d)
GS-1420.4	Water Supply to WSD for Irrigation System (Road D5) - East Bound Footpath - WWO46 Part I II Approval	30	16-May-25	14-Jun-25	-257	CD(7d)
GS-1430.0	Water Supply to WSD for Irrigation System (Road D5) - West Bound Footpath - WWO542 Approval	6	12-Feb-25 A	30-Apr-25	-238	CD(7d)
GS-1430.2	Water Supply to WSD for Irrigation System (Road D5) - West Bound Footpath - WWO46 Part I II Submission	15	01-May-25	15-May-25	-238	CD(7d)
GS-1430.4	Water Supply to WSD for Irrigation System (Road D5) - West Bound Footpath - WWO46 Part I II Approval	30	16-May-25	14-Jun-25	-238	CD(7d)
7.0 Construction						
Section 1						
Portion 10a in Area H, H1, H2 (Soil Treatment & Provision of Site Access & EVA to MWSC)						
KD1 - Provision of Site Access and EVA to MWSC						
Smart Road Lightings System Installation						
S1K1-3060	Remaining Road Fixture and Road Furnitre at Junction of Road D1 & Road L1	60	17-May-25	28-Jul-25	175	WD(6d)
Remaining Road works in Area H						
S1P10a-2018	Road Works - Irrigation System Installation	60	16-Jun-25	25-Aug-25	80	WD(6d)
Section 6B						
S6B-1000	Planned Completion Date of Section 6B	0		05-Jul-25	0	CD(7d)
Portion 1e in Area G2 (Soil Treatment)						
Soil Treatment						
S6BP1e-2000	Construct & maintain Temporary drainage	58	25-Jan-25 A	05-Jul-25	0	WD(6d)
S6BP1e-2020	Backfilling to the formation levels	48	09-May-25	05-Jul-25	0	WD(6d)
Portion 11b in Area G2 (Soil Treatment)						
Soil Treatment						
S6BP11b-2000	Construct & maintain Temporary drainage	58	25-Jan-25 A	05-Jul-25	0	WD(6d)
S6BP11b-2020	Backfilling to the formation levels	48	09-May-25	05-Jul-25	0	WD(6d)
Section 6C						
Portion 11b in Area G3 (Soil Treatment)						
Soil Treatment						
S6CP11b-2000	Construct & maintain Temporary drainage	210	25-Apr-25	06-Jan-26	0	WD(6d)
S6CP11b-2010	Remove soil (original assumed 2685m3) (1 / 1 EGI completed, soil to be excavated / treated : 0m3 / 0m3) Clean Soil	24	25-Apr-25	24-May-25	-84	WD(6d)
Section 8						
Portion 2 in Area A (Soil Treatment & Construction of Pak Shek Au Junction)						
Soil Treatment						
S8P2-2020	Backfilling to the formation levels	31	05-Feb-25 A	03-Jun-25	-187	WD(6d)
Civil Work						
Construction of Pak Shek Au Junction						
S8P2-4100.14	Cut slope KS34 - Trim Sheet Pile along KS34 Bay 5 - 8 (slope side)	18	22-Apr-25 A	20-May-25	92	WD(6d)
S8P2-4100.16	Cut slope KS34 - Trim Sheet Pile along KS34 Bay 2 - 4 (slope side)	18	21-May-25	11-Jun-25	92	WD(6d)
S8P2-4100.18	Cut slope KS34 - No-fine for the slope toe Bay 2 - 4 (slope side)	18	21-May-25	11-Jun-25	92	WD(6d)
S8P2-4100.32	Cut slope KS34 - No-fine for the slope toe Bay 5 - 8 (slope side)	24	14-May-25	11-Jun-25	92	WD(6d)
S8P2-4100.38	Cut slope KS34 - Remaining Soil Nail	24	12-Jun-25	10-Jul-25	92	WD(6d)
S8P2-4100.40	Cut slope KS34 - Remaining U-channel & Maintenance Access	26	11-Jul-25	09-Aug-25	92	WD(6d)
S8P2-5000	New Formed Slope KS35 Rock fill	52	13-May-25	14-Jul-25	163	WD(6d)



Build King – Richwell Engineering Joint Venture

- Planned Work
- Critical Work
- Actual Work
- Milestone
- Milestone Critical
- Summary LOE
- Summary LOE Critical

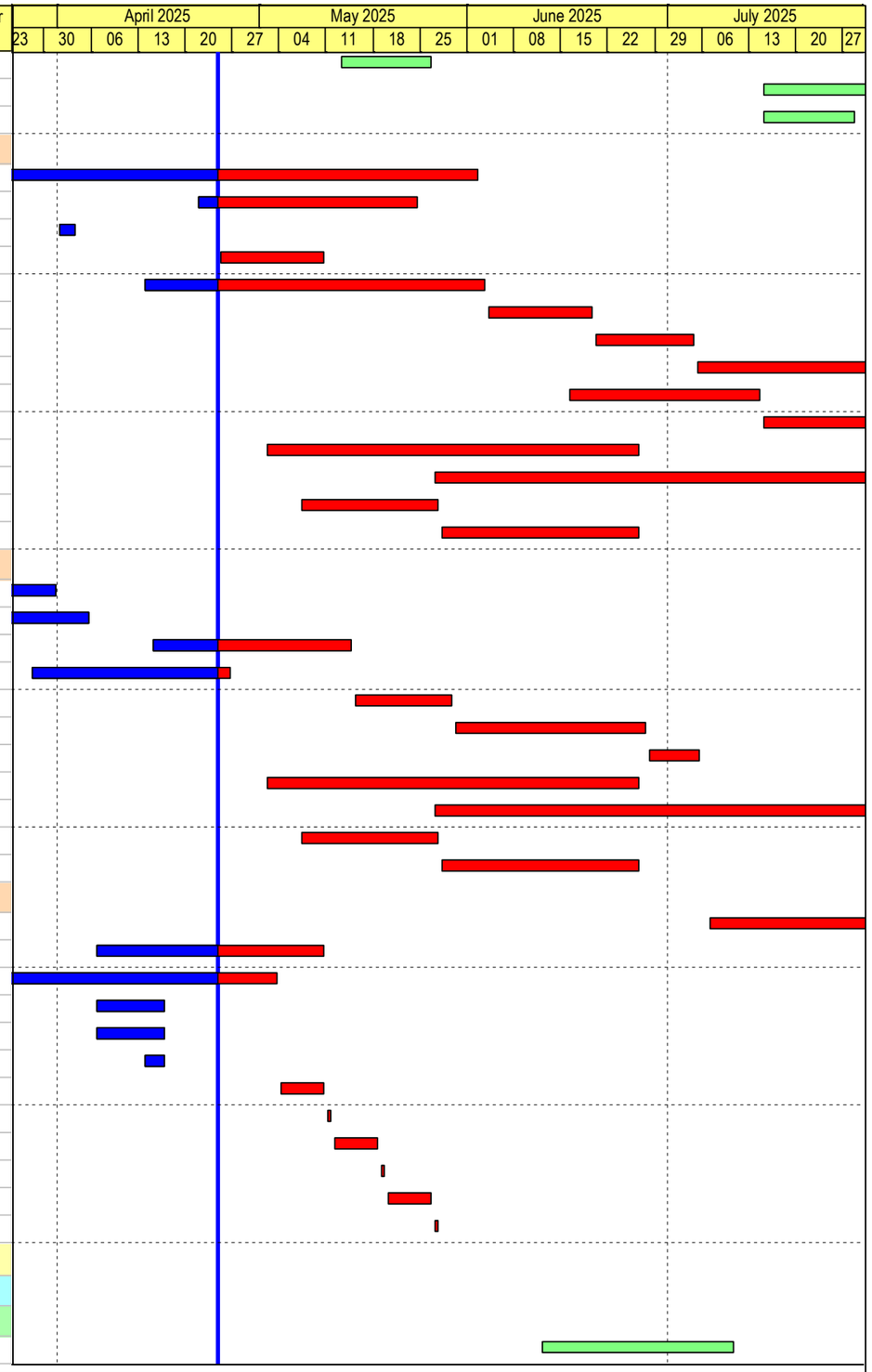
ND/2019/01 - 3 Month Rolling Programme (2025-04)

Data Date: 25-Apr-25 Run Date: 30-Apr-2025

Project ID: ND201901-RP 62
Lauyout: ND201901-3MRP with logo

REVISED PROGRAMME (2025-04)			
Date	Revision	Checked	Approved
30-Apr-25	Rev.0	SC	BY

Activity ID	Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar
S8P2-5002	New Formed Slope KS35 Rock fill - Construct Slope Drain	12	13-May-25	26-May-25	163	WD(6d)
S8P2-5010	Existing Feature 2SE-B/F97 Loose Fill to be Replaced by Compact fill	30	15-Jul-25	18-Aug-25	163	WD(6d)
S8P2-6000	New Formed Slope KS35 Compact fill - Hydroseeding	12	15-Jul-25	28-Jul-25	168	WD(6d)
Construction of Pak Shek Au Junction Stage 1						
S8P2-4120.110	ELS, Excav, Construct, Backfill Drainage SMHKT 1111a to KTRC1 (0 / 4 MH Complete) (Design changed)	30	02-Jan-25 A	02-Jun-25	-187	WD(6d)
S8P2-4120.112	Trial Trench, ELS, Excav, Construct Drainage SMHKTRC1a to KTRC1b (0 / 1 MH Complete)	24	22-Apr-25 A	24-May-25	-120	WD(6d)
S8P2-4120.116	Install SS Bar Screen	0	01-Apr-25 A	03-Apr-25 A		WD(6d)
S8P2-4120.117	Backfill to Slope Toe level of KS35	12	25-Apr-25	10-May-25	-168	WD(6d)
S8P2-4120.120	ELS, Excav, Laying Watermain and Back Filling (CHA 100 - CHA 150)	29	14-Apr-25 A	03-Jun-25	-187	WD(6d)
S8P2-4120.140	ELS, Excav, Laying Watermain and Back Filling (CHA 50 - CHA 100)	14	04-Jun-25	19-Jun-25	-187	WD(6d)
S8P2-4130.40	Back Filling and Construct Secondary Drainage M6.06 to M6.08 (0 / 3 MH Complete)	12	20-Jun-25	04-Jul-25	-187	WD(6d)
S8P2-4130.60	Road & Drain Construction Stage 1 - Road Formation (CE 520)	48	05-Jul-25	29-Aug-25	-153	WD(6d)
S8P2-4134	Irrigation System Installation (CE 268)	24	16-Jun-25	14-Jul-25	-171	WD(6d)
S8P2-4136	T&C for Irrigation System (CE 268)	30	15-Jul-25	13-Aug-25	-216	CD(7d)
S8P2-4146	UU Diversion (132KV & 11KV CLP)	46	02-May-25	26-Jun-25	-150	WD(6d)
S8P2-4148	UU Diversion (Telecom)	77	27-May-25	26-Aug-25	-150	WD(6d)
S8P2-4150	Road Lighting	18	07-May-25	27-May-25	-151	WD(6d)
S8P2-4160	T&C for smart road lightings system	30	28-May-25	26-Jun-25	-190	CD(7d)
Construction of Pak Shek Au Junction Stage 2						
S8P2-4120.122	Trial Pit Excavation / Detect and Exposure Underground Utilities	0	07-Feb-25 A	31-Mar-25 A		WD(6d)
S8P2-4120.124	Demolish Existing Retaining Wall (Bay 7 - 8)	0	20-Feb-25 A	05-Apr-25 A		WD(6d)
S8P2-4120.130	ELS, Excav, Construct Drainage, Backfilling SMHKT 1110 to MH1111a connection (0 / 2 MH Complete)	15	15-Apr-25 A	14-May-25	-187	WD(6d)
S8P2-4120.150	ELS, Excav, Laying Watermain and Back Filling (CHA 150 - CHA 200)	2	28-Mar-25 A	26-Apr-25	-187	WD(6d)
S8P2-4130.70	Back Filling and Construct Secondary Drainage M6.06 conne & M6.03A to M6.30C (0 / 5 MH Complete)	13	15-May-25	29-May-25	-126	WD(6d)
S8P2-4130.90	Road & Drain Construction Stage 2 - Road Formation (CE 520)	24	30-May-25	27-Jun-25	-126	WD(6d)
S8P2-4130.94	Laying Road Pavement (West Bound)	6	28-Jun-25	05-Jul-25	-126	WD(6d)
S8P2-4131.10	UU Diversion (132KV & 11KV CLP)	46	02-May-25	26-Jun-25	-150	WD(6d)
S8P2-4131.20	UU Diversion (Telecom)	77	27-May-25	26-Aug-25	-150	WD(6d)
S8P2-4131.30	Road Lighting	18	07-May-25	27-May-25	-151	WD(6d)
S8P2-4131.40	T&C for smart road lightings system	30	28-May-25	26-Jun-25	-190	CD(7d)
Construction of Pak Shek Au Junction Stage 5						
S8P2-4120.180	ELS, Excavation for Laying and Backfill CHA Watermain (CHA0 - CHA50)	41	07-Jul-25	22-Aug-25	-187	WD(6d)
S8P2-7010	EMSD erect temporary traffic light on oil drum	16	07-Apr-25 A	10-May-25	-195	CD(7d)
S8P2-7030	Pre-stage B - Setback kerb & Erect temporary bridge	9	19-Mar-25 A	03-May-25	-195	CD(7d)
S8P2-7040	Pre-stage C - Setback kerb	0	07-Apr-25 A	17-Apr-25 A		CD(7d)
S8P2-7050	Pre-stage D - Setback kerb and construct ATC duct	0	07-Apr-25 A	17-Apr-25 A		CD(7d)
S8P2-7060	Pre-stage E - road marking modification	0	14-Apr-25 A	17-Apr-25 A		CD(7d)
S8P2-7070	Pre-stage F - Setback kerb	7	04-May-25	10-May-25	-195	CD(7d)
S8P2-7080	Pre-stage G - road marking modification	1	11-May-25	11-May-25	-195	CD(7d)
S8P2-7090	Pre-stage H - Setback kerb	7	12-May-25	18-May-25	-195	CD(7d)
S8P2-7100	Pre-stage I - road marking modification	1	19-May-25	19-May-25	-195	CD(7d)
S8P2-7110	Pre-stage J - construct footpath	7	20-May-25	26-May-25	-195	CD(7d)
S8P2-7120	Pre-stage K - road marking modification	1	27-May-25	27-May-25	-195	CD(7d)
Portion 1a in Area A (Soil Treatment, Slope, Retaining Wall, Noise Barrier, Drainage & Roadwork)						
Civil Work						
South of Roundabout C3						
S8P1a-2048	Slopeworks for new feature KS34 Lower Bench - Slope Drainage and Maintenance Access (Stage 2)	24	12-Jun-25	10-Jul-25	498	WD(6d)



Build King – Richwell Engineering Joint Venture

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ND/2019/01 - 3 Month Rolling Programme (2025-04)

Data Date: 25-Apr-25 Run Date: 30-Apr-2025

Project ID: ND201901-RP 62
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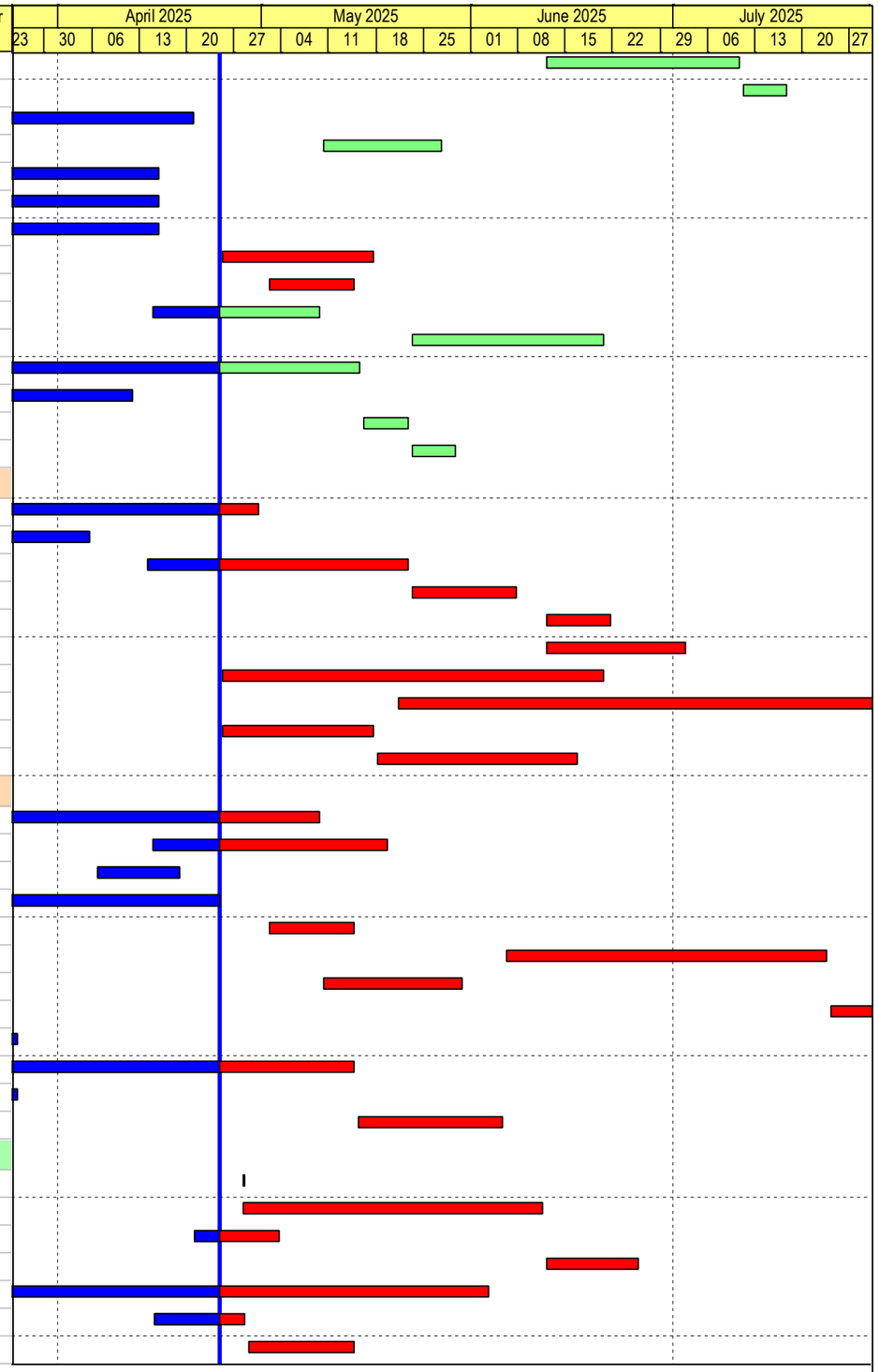
Activity ID	Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar
S8P1a-2050	Slopeworks for new feature KS34 Lower Bench - Soil Nail Installation & Soil Nail Head Rows BC+BB+BA (7 + 7 +7 Nos)	24	12-Jun-25	10-Jul-25	498	WD(6d)
S8P1a-2090	New Feature KS34 - Hydroseeding (Stage 2)	6	11-Jul-25	17-Jul-25	499	WD(6d)
S8P1a-2330	Laying Fresh Watermains CHAA 150 to CH 246	0	17-Feb-25 A	21-Apr-25 A		WD(6d)
S8P1a-2332	Swabbing & Pressure test for Fresh & Flushing watermain CHAA	18	10-May-25	27-May-25	27	CD(7d)
S8P1a-2350	New Formed Rock Fill Slope KS33 (Stage 2) CH 60 to 135	0	27-Nov-24 A	16-Apr-25 A		WD(6d)
S8P1a-2352	New Formed Rock Fill Slope KS33 (Stage 2) CH 60 to 135 - Slope Drainage	0	14-Mar-25 A	16-Apr-25 A		WD(6d)
S8P1a-2354	New Formed Rock Fill / No Fines Concrete Fill Slope KS33 (Stage 1) CH 60 to 135 - No fines	0	14-Mar-25 A	16-Apr-25 A		WD(6d)
S8P1a-2356	New Formed Rock Fill / No Fines Concrete Fill Slope KS33 (Stage 1) CH 60 to 135 - Maintenance Access	18	25-Apr-25	17-May-25	-33	WD(6d)
S8P1a-2360	UU Diversion (132KV & 11KV CLP)	10	02-May-25	14-May-25	-63	WD(6d)
S8P1a-2370	Backfilling to Formation & SRT	11	15-Apr-25 A	09-May-25	31	WD(6d)
S8P1a-2400	Slip Road - Formation and Roadworks	24	23-May-25	20-Jun-25	2	WD(6d)
S8P1a-2600	New Formed Slope KS32 - Backfill with compacted soil (with SRT) (CNE 168)	16	20-Jul-24 A	15-May-25	2	WD(6d)
S8P1a-2610	New Formed Slope KS32 - Cast of No-fine concrete (2nd) (CNE 168)	0	17-Mar-25 A	12-Apr-25 A		WD(6d)
S8P1a-2630	New Formed Slope KS32 - Trimming work and Remaining works (including Remaining Drainage)	6	16-May-25	22-May-25	2	WD(6d)
S8P1a-2640	New Formed Slope KS32 - Hydroseeding	6	23-May-25	29-May-25	20	WD(6d)
Construction of Pak Shek Au Junction Stage 3						
S8P1a-0050	Construct U-channel (Bay 11-13)	5	20-Mar-25 A	30-Apr-25	-107	WD(6d)
S8P1a-3004	Demolish Existing Retaining Wall (Bay 9 - 12)	0	11-Feb-25 A	05-Apr-25 A		WD(6d)
S8P1a-3010	Construct Secondary Drainage M6.11 to M6.14 (0 / 4 MH Complete)	14	14-Apr-25 A	22-May-25	-110	WD(6d)
S8P1a-3012	Construct Temp Cycle Track for Diversion & Implement TTA	13	23-May-25	07-Jun-25	-110	WD(6d)
S8P1a-3014	Construct Secondary Drainage M6.14 connection to M6.14A (0 / 1 MH Complete)	9	12-Jun-25	21-Jun-25	-110	WD(6d)
S8P1a-3016	Replace part of existing Cycle Track to Carriageway	17	12-Jun-25	02-Jul-25	-110	WD(6d)
S8P1a-6200	UU Diversion (132KV & 11KV CLP)	46	25-Apr-25	20-Jun-25	-145	WD(6d)
S8P1a-6210	UU Diversion (Telecom)	77	21-May-25	20-Aug-25	-145	WD(6d)
S8P1a-6220	Road Lighting	18	25-Apr-25	17-May-25	-143	WD(6d)
S8P1a-6230	T&C for smart road lightings system	30	18-May-25	16-Jun-25	-180	CD(7d)
Construction of Pak Shek Au Junction Stage 4						
S8P1a-2050.00	Backfill to Road Formation level & SRT	11	09-Jan-25 A	09-May-25	-141	WD(6d)
S8P1a-2050.12	ELS, Exc, Construct and backfilling Draiange SMH KT 1105C to 1110 connect (0 / 1 M/H complete)	19	15-Apr-25 A	19-May-25	-107	WD(6d)
S8P1a-2050.14	ELS, Exc, Construct and backfilling Draiange SMH KT 1109 connect to 1110	0	07-Apr-25 A	19-Apr-25 A		WD(6d)
S8P1a-6010	Laying Fresh Watermains CHAA 246 to CH 266	0	22-Mar-25 A	25-Apr-25 A		WD(6d)
S8P1a-6020	UU Diversion (132KV & 11KV CLP)	10	02-May-25	14-May-25	-63	WD(6d)
S8P1a-6030	Road & Drain Construction Stage 4 - Road Formation	40	06-Jun-25	23-Jul-25	-156	WD(6d)
S8P1a-6040	Swabbing & Pressure test for Fresh & Flushing watermain CHAA	18	10-May-25	30-May-25	-112	WD(6d)
S8P1a-6120	Road Lighting	16	24-Jul-25	11-Aug-25	-156	WD(6d)
S8P1a-6140	New Formed Rock Fill / No Fines Concrete Fill Slope KS33 (Stage 1) CH 0 to 60	0	10-Aug-24 A	26-Mar-25 A		WD(6d)
S8P1a-6150	New Formed Rock Fill / No Fines Concrete Fill Slope KS33 (Stage 1) CH 0 to 60 - Slope Drainage	15	18-Dec-24 A	14-May-25	-156	WD(6d)
S8P1a-6160	New Formed Rock Fill / No Fines Concrete Fill Slope KS33 (Stage 1) CH 10 to 60 - No fines	0	07-Mar-25 A	26-Mar-25 A		WD(6d)
S8P1a-6170	New Formed Rock Fill / No Fines Concrete Fill Slope KS33 (Stage 1) CH 0 to 60 - Maintenance Access	18	15-May-25	05-Jun-25	-156	WD(6d)
Roundabout C3						
S8P1a-4018	New Formed Cut Slope KS44 & KS44A-C - Remaining Soil Nail Head	1	28-Apr-25	28-Apr-25	-23	WD(6d)
S8P1a-4042	New Formed Cut Slope KS44 & KS44A-C - Slope Drainage Construction	36	28-Apr-25	11-Jun-25	0	WD(6d)
S8P1a-4044	New Formed Cut Slope KS44B - No Fines Concrete Slope	7	21-Apr-25 A	03-May-25	0	WD(6d)
S8P1a-4054	New Formed Cut Slope KS44 & KS44A-C Slope Hydroseeding	12	12-Jun-25	25-Jun-25	0	WD(6d)
S8P1a-5024	DCS Works by Others - Stage 1 (Anticipated Start Date - Jan 2025) 'To be Confirmed'	40	06-Jan-25 A	03-Jun-25	-118	CD(7d)
S8P1a-5030	Laying Watermain CHD	3	15-Apr-25 A	28-Apr-25	-78	WD(6d)
S8P1a-5040	Laying Watermain CHQ	12	29-Apr-25	14-May-25	-78	WD(6d)



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ND/2019/01 - 3 Month Rolling Programme (2025-04)

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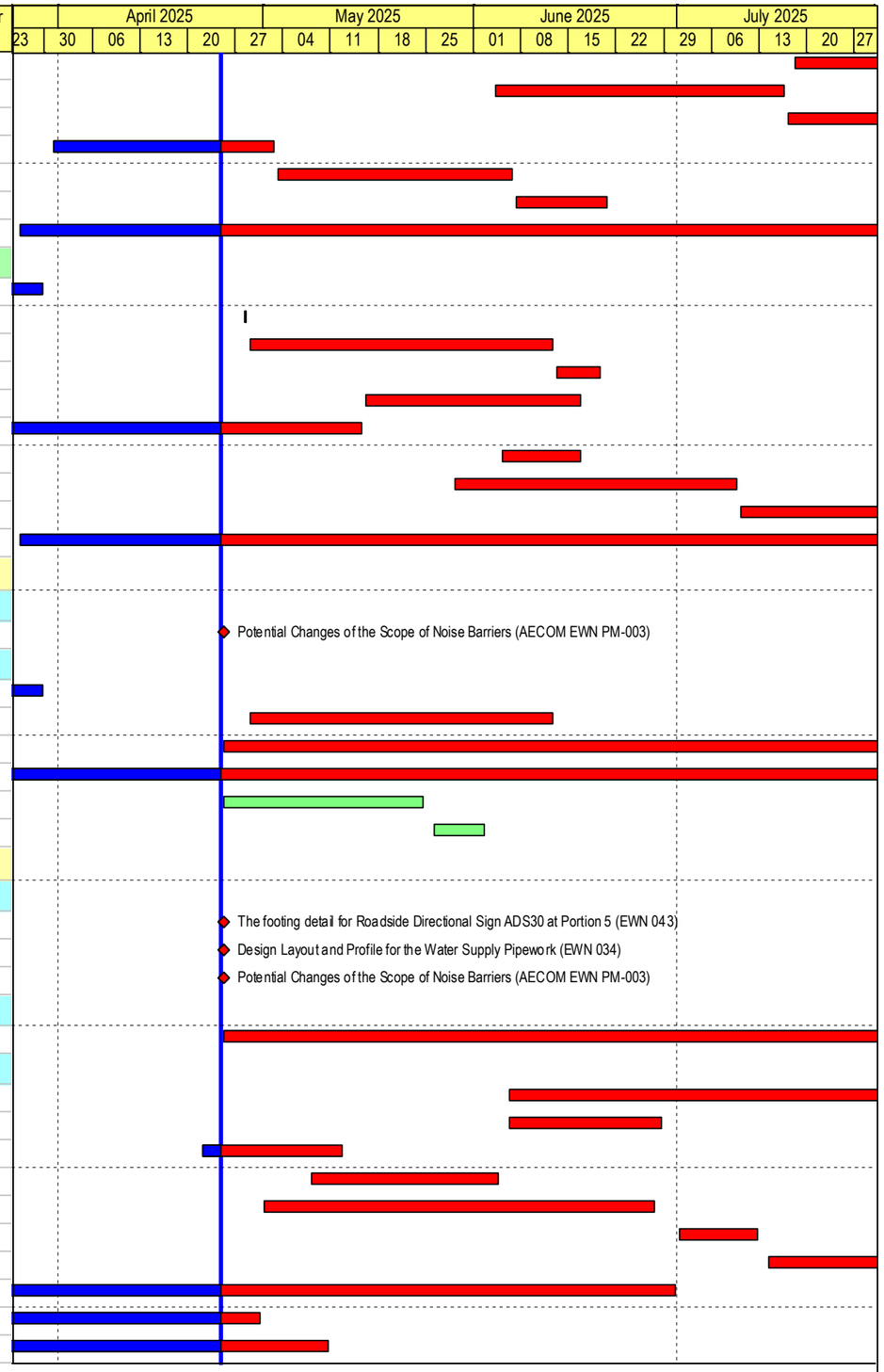
Activity ID	Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar
S8P1a-5140	Road Lighting	16	18-Jul-25	05-Aug-25	-94	WD(6d)
S8P1a-5222	Excavate, Laying and Backfilling Fresh & Flushing Watermains CHAA & CHWA	36	04-Jun-25	16-Jul-25	-94	WD(6d)
S8P1a-5224	Swabbing & Pressure test for Fresh & Flushing watermains CHAA & CHWA	24	17-Jul-25	09-Aug-25	-107	CD(7d)
S8P1a-5232	Construction of Sewerage FMH KT 3.01B Connection to 3.01D Connection (0 / 2 M/H complete)	6	31-Mar-25 A	02-May-25	-22	WD(6d)
S8P1a-5236.10	Construct Roundabout Drainage M1.80 to M1.84 & M1.88 (0 / 6 Completed)	28	03-May-25	06-Jun-25	-22	WD(6d)
S8P1a-5238	Backfill to Road Formation Level	12	07-Jun-25	20-Jun-25	-22	WD(6d)
S8P1a-5510	DCS Works by Others - Stage 2 (Anticipated Start Date - Mar 2025) 'To be Confirmed'	97	26-Mar-25 A	30-Jul-25	-184	CD(7d)
Within MTRC Protection Zone						
S8P1a-4020	New Formed Cut Slope KS53 to Road Formation level (Encountered Water main Thrust block, waiting Instructions)	0	18-Feb-25 A	29-Mar-25 A		WD(6d)
S8P1a-4032.04	New Formed Cut Slope KS44 & KS44A-C - Remaining Soil Nail Head	1	28-Apr-25	28-Apr-25	-23	WD(6d)
S8P1a-4036	New Formed Cut Slope KS03 Slope Drainage Construction	36	29-Apr-25	12-Jun-25	-23	WD(6d)
S8P1a-4038	New Formed Cut Slope KS03 Hydroseeding	6	13-Jun-25	19-Jun-25	-23	WD(6d)
S8P1a-4120	Underground Secondary Drainage M2.91 to M2.72 and Primary drainage pipe laying) (0 / 6 Completed)	26	16-May-25	16-Jun-25	-82	WD(6d)
S8P1a-4140	Laying Fresh and Flushing Watermains CHD & CHQ	16	21-Oct-24 A	15-May-25	-100	WD(6d)
S8P1a-4142	Swabbing & Pressure test for Fresh & Flushing watermains CHD & CHQ	12	05-Jun-25	16-Jun-25	-104	CD(7d)
S8P1a-4144	Laying UU by others (Handover to CLP, Towngas, HKT)	42	29-May-25	09-Jul-25	-127	CD(7d)
S8P1a-4148	Backfill to Road Formation	26	10-Jul-25	08-Aug-25	-101	WD(6d)
S8P1a-6000	DCS Works by Others (Anticipated Start Date - Mar 2025) 'To be Confirmed'	97	26-Mar-25 A	30-Jul-25	-184	CD(7d)
Portion 3 in Area A (Soil Treatment, Drainage & Roadwork)						
Preparation work						
S8P3-0106	Potential Changes of the Scope of Noise Barriers (AECOM EWN PM-003)	0		25-Apr-25	-13	CD(7d)
Civil Work						
S8P3-3005.	New Feature KS53 - Cut slope (Encountered Water main Thrust block, waiting Instructions)	0	03-Feb-25 A	29-Mar-25 A		WD(6d)
S8P3-3005.30	New Feature KS53 - Construct Slope drainage	36	29-Apr-25	12-Jun-25	-17	WD(6d)
S8P3-4000	DCS Works by Others (Anticipated Start Date Mar 2025)	97	25-Apr-25	30-Jul-25	-184	CD(7d)
S8P3-4010	DCS Works by Others - Jacking Pit (Anticipated Start Date Oct 2024)	189	15-Oct-24 A	30-Oct-25	-202	CD(7d)
S8P3-5002	New Formed Cut Slope KS51 - Slope Drainage	24	25-Apr-25	24-May-25	24	WD(6d)
S8P3-5010	New Formed Cut Slope KS51 - Hydroseeding	6	26-May-25	02-Jun-25	24	WD(6d)
Portion 5 in Area A (Soil Treatment, Bored Pile Wall, Drainage & Roadwork)						
Preparation work/Tree Survey/Site Clearance/GI						
S8P5-0000	The footing detail for Roadside Directional Sign ADS30 at Portion 5 (EWN 043)	0		25-Apr-25	-134	CD(7d)
S8P5-0102	Design Layout and Profile for the Water Supply Pipework (EWN 034)	0		25-Apr-25	-213	CD(7d)
S8P5-0110	Potential Changes of the Scope of Noise Barriers (AECOM EWN PM-003)	0		25-Apr-25	-134	CD(7d)
Construction according to CSD for Alternative on Bored Pile Wall						
S8P5-2005	Construct & maintain Temporary drainage	161	25-Apr-25	06-Nov-25	-169	WD(6d)
Civil Work						
S8P5-4004.30	Underground Fresh & Flushing watermains (South bound Carriageway) CHD 417 to 473 & CHQ 421 to 465	60	06-Jun-25	15-Aug-25	-116	WD(6d)
S8P5-4004.40	Remaining Secondary Drainage (South bound Carriageway CH 400 - CH 520)	20	06-Jun-25	28-Jun-25	-158	WD(6d)
S8P5-4008	Watermain CHA - CCTV & Pressure Test	18	22-Apr-25 A	12-May-25	-167	CD(7d)
S8P5-4012	Underground utilitiies (Handover to CLP, Towngas, HKT - 9 Apr 2025) (South bound CH 410 - CH 520)	28	08-May-25	04-Jun-25	-175	CD(7d)
S8P5-4014.020	Underground utilitiies (Handover to CLP, HKT - 3 Apr 2025) (CH 340 - CH 410)	58	01-May-25	27-Jun-25	-213	CD(7d)
S8P5-4014.030	Underground utilitiies (Handover to Towngas - 1 Jul 2025) (CH 340 - CH 410)	12	01-Jul-25	12-Jul-25	-213	CD(7d)
S8P5-4020	Remaining Roadwork - Formation & Sub base (CH 340 - CH 400)	36	14-Jul-25	23-Aug-25	-169	WD(6d)
S8P5-5010	DCS Works by Others - North bound CH 340 - CH 410 (Anticipated Start Date Oct 2024)	67	15-Oct-24 A	30-Jun-25	-201	CD(7d)
S8P5-5060	Formation / SRT for Footpath (South bound CH330 to 489) (CE 566, 634)	5	17-Feb-25 A	30-Apr-25	-171	WD(6d)
S8P5-5070	Formation / SRT for Footpath & Carriageway (North bound CH439 to489) (CE 566, 634)	12	17-Feb-25 A	10-May-25	-130	WD(6d)



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Activity ID	Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar
Portion 6a & 6b in Area A (Soil Treatment, Bored Pile Wall, Drainage & Roadwork)						
S8P6a-0005	Further Changes to the Works Information for the Construction of DCS Pipes at Road D4-1 (PMI 155 CE157) (CNE 095)	0		25-Apr-25	-213	CD(7d)
Construction according to CSD for Alternative on Bored Pile Wall						
S8P6a-2004	Construct & maintain Temporary drainage	171	25-Apr-25	18-Nov-25	-144	WD(6d)
Civil Work						
S8P6a-4024	Road D4 - Underground utilitiies (Handover to CLP, HKT, DCS - 26 Mar 2025)	63	26-Mar-25 A	25-Jul-25	-144	WD(6d)
S8P6a-6052	Construction of Concrete Barrier KB01 Stage 4 (Bay 15)	7	22-Feb-25 A	03-May-25	-151	WD(6d)
S8P6a-6060	Construction of Concrete Barrier KB01 Stage 4 (Bay 14)	0	10-Feb-25 A	21-Apr-25 A		WD(6d)
S8P6a-6076.12	Road D4 Junction - Construction of Temp Road (North bound) and Road Diversion (Stage 2 of 2)	12	12-Feb-25 A	28-May-25	-114	WD(6d)
S8P6a-6076.20	Watermain CHA - CCTV & Pressure Test (EWN 111)	8	23-Apr-25 A	02-May-25	-51	CD(7d)
S8P6a-6084.20	Road D4 - Underground Sewerage work (Lay Pipe FMH KT1.01 to Plug in)	18	29-May-25	19-Jun-25	-114	WD(6d)
S8P6a-6090	Road D4 Remainig Flushing Watermains CHQ	24	20-Jun-25	18-Jul-25	-114	WD(6d)
S8P6a-7000	Road D4 Swabbing & Pressure test for Fresh watermains CHD & CHQ	12	19-Jul-25	01-Aug-25	-102	WD(6d)
S8P6a-7032	Road D4 - Backfill to Road Formation CH 360 to CH 400	16	08-Oct-24 A	15-May-25	-70	WD(6d)
S8P6a-7050	KB01 (Bay 13 to 15) - Backfiiling to formation level	10	09-May-25	20-May-25	-151	WD(6d)
S8P6a-7060	KB01 (Bay 1 to 12) - Construct Drainage & Maintenance Access	24	21-May-25	18-Jun-25	-53	WD(6d)
S8P6a-7070	KB01 (Bay 13 to 15) - Construct Drainage & Maintenance Access	24	21-May-25	18-Jun-25	-53	WD(6d)
S8P6a-7080	Road D3 / D4 Junction - North Bound Lane Site formation (including gulley construction)	24	29-Apr-25	28-May-25	-158	WD(6d)
S8P6a-7090	Road D3 / D4 Junction - North Bound Lane Road Works & Divert traffic	6	29-May-25	05-Jun-25	-158	WD(6d)
S8P6a-7120	Road D3 / D4 Junction - Backfill to formation South Bound Lane CH 100 - CH 150	24	19-Jul-25	15-Aug-25	-114	WD(6d)
S8P6a-7130	Road D3 / D4 Junction - Repair CHA Watermain Damaged by DCS Contractor (EWN 111)	0	12-Feb-25 A	17-Apr-25 A		WD(6d)
S8P6a-7140	Formation & SRT for Footpath (South bound, CH 240 to 400)	18	24-Feb-25 A	17-May-25	-144	WD(6d)
S8P6a-7150	Formation & SRT for Footpath (North bound, CH 240 to 400)	12	28-Feb-25 A	10-May-25	-144	WD(6d)
S8P6a-7160	Formation & SRT for Carriageway (CH 355 to 400)	15	14-Apr-25 A	14-May-25	-84	WD(6d)
Portion 9b & 9d in Area A (Soil Treatment, Slope, Retaining Wall, Drainage & Roadwork)						
S8P9b-0004	Design Layout and Profile for the Water Supply Pipework (EWN 034)	0		25-Apr-25	-315	CD(7d)
S8P9b-3124	Suspension of Precast Concrete Manhole Supply due to the Severe Outbreak of COVID-19 in Mainland China (EWN 060)	0		25-Apr-25	-280	CD(7d)
S8P9b-3126	Increased Risk for Damages to Existing Donjiang Raw Water Mains (DJRWMs) (CNE 060)	0		25-Apr-25	-323	CD(7d)
S8P9b-3128	Additional Sewerage Pipes clash with the Proposed Watermains along Road D4 and D5 (EWN 065)	0		25-Apr-25	-315	CD(7d)
S8P9b-3132	Potential Changes of the Scope of Noise Barriers (AECOM EWN PM-003)	0		25-Apr-25	-207	CD(7d)
S8P9b-3140	Delay to the Diversion/Modificaton of Existing HKT Pillar Boxes & Associated ducts in Ma Tso Lung Rd (EWN 075) (CNE 096)	0		25-Apr-25	-315	CD(7d)
S8P9b-3142	Delay to the Diversion of Existing Fresh Watermains along/near Ma Tso Lung Road at Portion 9b of the Site (EWN 076)	0		25-Apr-25	-315	CD(7d)
S8P9b-3144	Delay to the Relocation of Existing Fire Hydrant in Ma Tso Lung Road at Portion 9b of the Site (EWN 077) (CNE 129)	0		25-Apr-25	-315	CD(7d)
S8P9b-3148	Further Changes to the Works Information for the Construction of DCS Pipes at Road D4-1 (PMI 155 CE157) (CNE 095)	0		25-Apr-25	-315	CD(7d)
S8P9b-3154	Late Provision of Add Work Area for the Construction of Drainages and Slopes Outside Site Boundary Portion 9b (CNE 098)	0		25-Apr-25	-289	CD(7d)
S8P9b-3156	Provision of Spare Pipes for the Proposed Watermains adopting Trenchless Construction Method at Road D4 (EWN 091)	0		25-Apr-25	-323	CD(7d)
S8P9b-3162	Additional Works for Installation of Watermains by Trenchless Construction Method along Road D4 (EWN 095) (CNE 136)	0		25-Apr-25	-160	CD(7d)
S8P9b-3166	Revised longitudinal profile & layout for the watermains & DN150 branch pipes to the fire hydrants Road D4,D5 (CNE 149)	0		25-Apr-25	-315	CD(7d)
S8P9b-3170	Temporary Lighting Proposal for the Temporary Road in Ma Tso Lung Road at Portion 9b of the Site (EWN 096)	0		25-Apr-25	-315	CD(7d)
S8P9b-3172	Revised Road Layout and Setting Out of Fill Slope KS12 at Road D4 in Portion 9b of the Site (CNE 154)	0		25-Apr-25	-64	CD(7d)
Preparation work/Tree Survey/Site Clearance/GI						
S8P9b-0006	Removal of Existing CLP Facilities (EWN No. 018)	0		25-Apr-25	-75	CD(7d)
Civil Work						
S8P9b-3000	Construct & maintain Temporary drainage	284	25-Apr-25	10-Apr-26	-262	WD(6d)
S8P9b-3001.04	Slopeworks for new feature KS19 - Berm, Stairs & Maintenance Access Construction	72	18-Jun-25	10-Sep-25	-93	WD(6d)
S8P9b-3012.20	Duration of TTA	82	25-Apr-25	15-Jul-25	-140	CD(7d)
S8P9b-3020.10	Road D4 (CH 780 to CH 970) - Back Filling Carriageway	0	25-Nov-24 A	17-Apr-25 A		WD(6d)

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ND/2019/01 - 3 Month Rolling Programme (2025-04)

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REVISED PROGRAMME (2025-04)			
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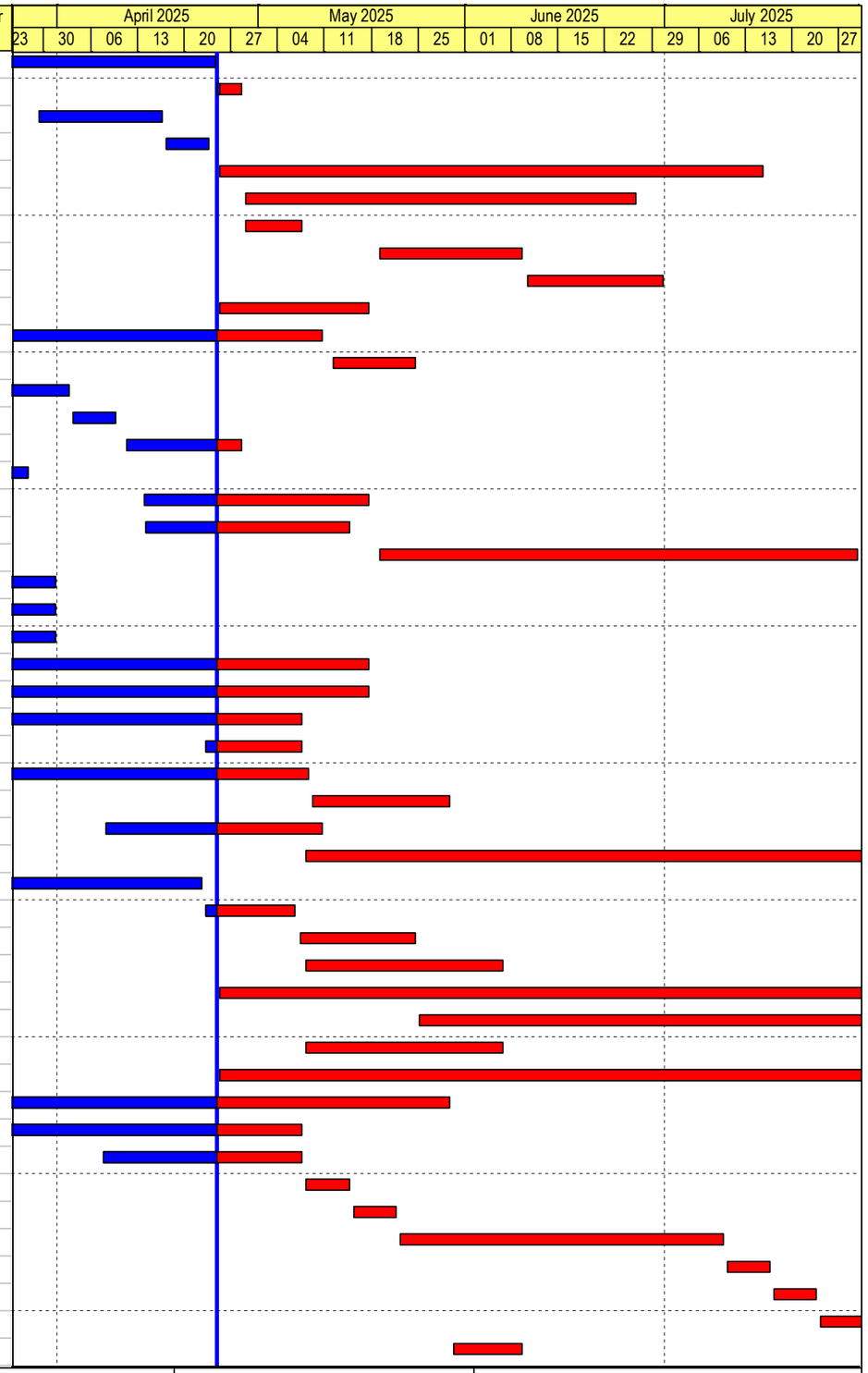
Activity ID	Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar
S8P9b-3020.12	Road D4 (CH 860 to CH 960) - Back - Road Formation, Sub base & Base Course	0	19-Feb-25 A	24-Apr-25 A		WD(6d)
S8P9b-3020.14	Road D4 (CH 860 to CH 960) - Preparation and Implement TTA	3	25-Apr-25 A	28-Apr-25	-132	WD(6d)
S8P9b-3021.20	Road D4 T&C for DCS Works (Stage 1, CH 805 to CH 994) - Pressure Test	0	29-Mar-25 A	16-Apr-25 A		CD(7d)
S8P9b-3021.30	Road D4 T&C for DCS Works (Stage 1, CH 805 to CH 994) - Chemical Cleaning	0	17-Apr-25 A	23-Apr-25 A		CD(7d)
S8P9b-3022	Road D4 (CH 780 to CH 970) - Remaining Back Filling and Road lighting	66	25-Apr-25	15-Jul-25	-112	WD(6d)
S8P9b-3022.30	Road D4 (CH 970 to CH 994) - Construction of Underground Drainage Manhole SMH KT 5016 connect to 7107 (0 / 2 Complete)	48	29-Apr-25	26-Jun-25	-132	WD(6d)
S8P9b-3036.0	Road W1 & Road D4 - Freshwater main Pressure Test (CHA1612 to CHBB 216)	6	29-Apr-25	07-May-25	-89	WD(6d)
S8P9b-3040.14	Retaining wall KW03 - Drainage Construction (Remaining)	18	19-May-25	09-Jun-25	-92	WD(6d)
S8P9b-3040.16	Retaining wall KW02 - Drainage Construction	18	10-Jun-25	30-Jun-25	-92	WD(6d)
S8P9b-3040.18	Retaining wall KW04 - Drainage Construction	18	25-Apr-25	17-May-25	-92	WD(6d)
S8P9b-3040.24	Retaining wall KW02, KW03 & KW04 - UU by others & Smart Lighting	12	25-Mar-25 A	10-May-25	-62	WD(6d)
S8P9b-3040.26	Retaining wall KW02, KW03 & KW04 - Foothpath Construction	12	12-May-25	24-May-25	-62	WD(6d)
S8P9b-3057.120	Road D4 T&C for DCS Works (Stage 2, CH 388 -670) - Cleaning & Swabbing Test	0	24-Feb-25 A	02-Apr-25 A		CD(7d)
S8P9b-3057.124	Road D4 T&C for DCS Works (Stage 2, CH 388 -670) - Pressure Test	0	03-Apr-25 A	09-Apr-25 A		CD(7d)
S8P9b-3057.126	Road D4 T&C for DCS Works (Stage 2, CH 388 -670) - Chemical Cleaning	4	11-Apr-25 A	28-Apr-25	-46	CD(7d)
S8P9b-3057.30	Road D4 (CH 400 - CH 630) - Backfilling & Laying Watermain CHD & CHQ	0	13-Dec-24 A	27-Mar-25 A		WD(6d)
S8P9b-3057.40	Road D4 (CH 400 to CH 630) - Underground Utilities by others & Road Lighting	16	14-Apr-25 A	17-May-25	-129	WD(6d)
S8P9b-3057.42	Road D4 (CH 400 to CH 630) - Formation & SRT for Carriageway (CH 400 - 630)	15	14-Apr-25 A	14-May-25	-126	WD(6d)
S8P9b-3057.50	Road D4 (CH 500 to CH 630) - Footpath and Carriageway Construction	60	19-May-25	29-Jul-25	-129	WD(6d)
S8P9b-3057.500	Road D4 (CH 400 to CH 630) - Excavation, DCS T Installation & Backfilling CH626	0	02-Jan-25 A	31-Mar-25 A		WD(6d)
S8P9b-3057.502	Road D4 (CH 400 to CH 630) - Excavation, DCS T Installation & Backfilling CH388	0	04-Jan-25 A	31-Mar-25 A		WD(6d)
S8P9b-3057.504	Road D4 (CH 400 to CH 630) - Excavation, DCS T Installation & Backfilling CH407	0	04-Jan-25 A	31-Mar-25 A		WD(6d)
S8P9b-3057.508	Road D4 (CH 400 to CH 630) - Formation / SRT for Footpath (South bound)	18	25-Feb-25 A	17-May-25	-129	WD(6d)
S8P9b-3057.510	Road D4 (CH 400 to CH 630) - Formation / SRT for Footpath (North bound)	12	10-Mar-25 A	17-May-25	-129	WD(6d)
S8P9b-3058.105	Road D5 - Laying Remaining Watermains CH D After DCS Works - Stage 2 (Return Dealyed by CGC)	9	08-Aug-24 A	07-May-25	-175	WD(6d)
S8P9b-3058.106	Road D5 - Laying Watermains CH QB After DCS Works at Portion A3 Stage 1	9	23-Apr-25 A	07-May-25	-175	WD(6d)
S8P9b-3058.110	Road D5 - Underground Utilities by others (North footpath)	10	10-Feb-25 A	08-May-25	-112	WD(6d)
S8P9b-3058.112	Road D5 - Foot path Construction (North footpath)	18	09-May-25	29-May-25	-112	WD(6d)
S8P9b-3058.116	Road D5 - Underground Utilities by others (South footpath)	12	08-Apr-25 A	10-May-25	-86	WD(6d)
S8P9b-3058.19	Road D5 - Remianing Road Works (CNE 221)	82	08-May-25	13-Aug-25	-175	WD(6d)
S8P9b-3058.30	Road D5 - DCS Works by Others Portion A3 (Commencement Date 4 Nov 2024) (CNE 221)	0	04-Nov-24 A	22-Apr-25 A		CD(7d)
S8P9b-3058.32	Road D5 - Remaining Watermains (within DCS works A3) (CNE 221)	8	23-Apr-25 A	06-May-25	-227	WD(6d)
S8P9b-3058.34	Road D5 - Construct Temp Rd and Divert Traffic (over DCS works A3) (CNE 221)	18	07-May-25	24-May-25	-282	CD(7d)
S8P9b-3058.60	Road D5 - Watermains T & C (CNE 221)	30	08-May-25	06-Jun-25	-149	CD(7d)
S8P9b-3101	Duration of TTA	160	25-Apr-25	05-Nov-25	-228	WD(6d)
S8P9b-3108.50	Reassign to DCS Contractor (After Road D5 A3 Road Diversion, Previously assigned to DCS Contractor 28 Apr - 1 Jun 24)	105	25-May-25	06-Sep-25	-282	CD(7d)
S8P9b-3244.00	Road D4 & W1 - Watermain CHA & CHBB CCTV & Pressure Test	30	08-May-25	06-Jun-25	-114	CD(7d)
S8P9b-3260	Construct & maintain Temporary drainage	122	25-Apr-25	18-Sep-25	-232	WD(6d)
S8P9b-3262.048	Jacking Pit - Installation for DCS Pipe (CNE 060, CE 246)	28	20-Mar-25 A	29-May-25	-207	WD(6d)
S8P9b-3262.060	Jacking Pit - Remove Platform and TBM Set up for Sewerage (CNE 060, CE 246)	9	11-Mar-25 A	07-May-25	-232	WD(6d)
S8P9b-3262.062	Jacking Pit - Prepare / Submit / Consent of Temp Design for New Access (CNE 060, CE 246)	6	08-Apr-25 A	07-May-25	-232	WD(6d)
S8P9b-3262.064	Jacking Pit - Construct New Access (CNE 060, CE 246)	6	08-May-25	14-May-25	-232	WD(6d)
S8P9b-3262.066	Jacking Pit - Backfill to ITC Level +11.431 mPD (CNE 060, CE 246)	6	15-May-25	21-May-25	-232	WD(6d)
S8P9b-3262.070	Jacking Pit - Construct Inspection Tee Chamber (Cast In-Situ Method) (CNE 060, CE 246)	40	22-May-25	09-Jul-25	-232	WD(6d)
S8P9b-3262.076	Jacking Pit - Backfilling to Sewerage Level +14.179mPD (CNE 060, CE 246)	6	10-Jul-25	16-Jul-25	-232	WD(6d)
S8P9b-3262.080	Jacking Pit - Construct Sewerage FMH KT7.08 (0 / 1 MH Complete) (CNE 060, CE 246)	6	17-Jul-25	23-Jul-25	-232	WD(6d)
S8P9b-3262.082	Jacking Pit - Backfilling to Gate Valve Chamber Level +17.02mPD (CNE 060, CE 246)	6	24-Jul-25	30-Jul-25	-232	WD(6d)
S8P9b-3262.092	Pipe Jacking - Pressure Test and Grouting of Sleeve Pipe for DCS (CNE 060, CE 246)	11	30-May-25	09-Jun-25	-259	CD(7d)



Build King – Richwell Engineering Joint Venture

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ND/2019/01 - 3 Month Rolling Programme (2025-04)

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REVISED PROGRAMME (2025-04)			
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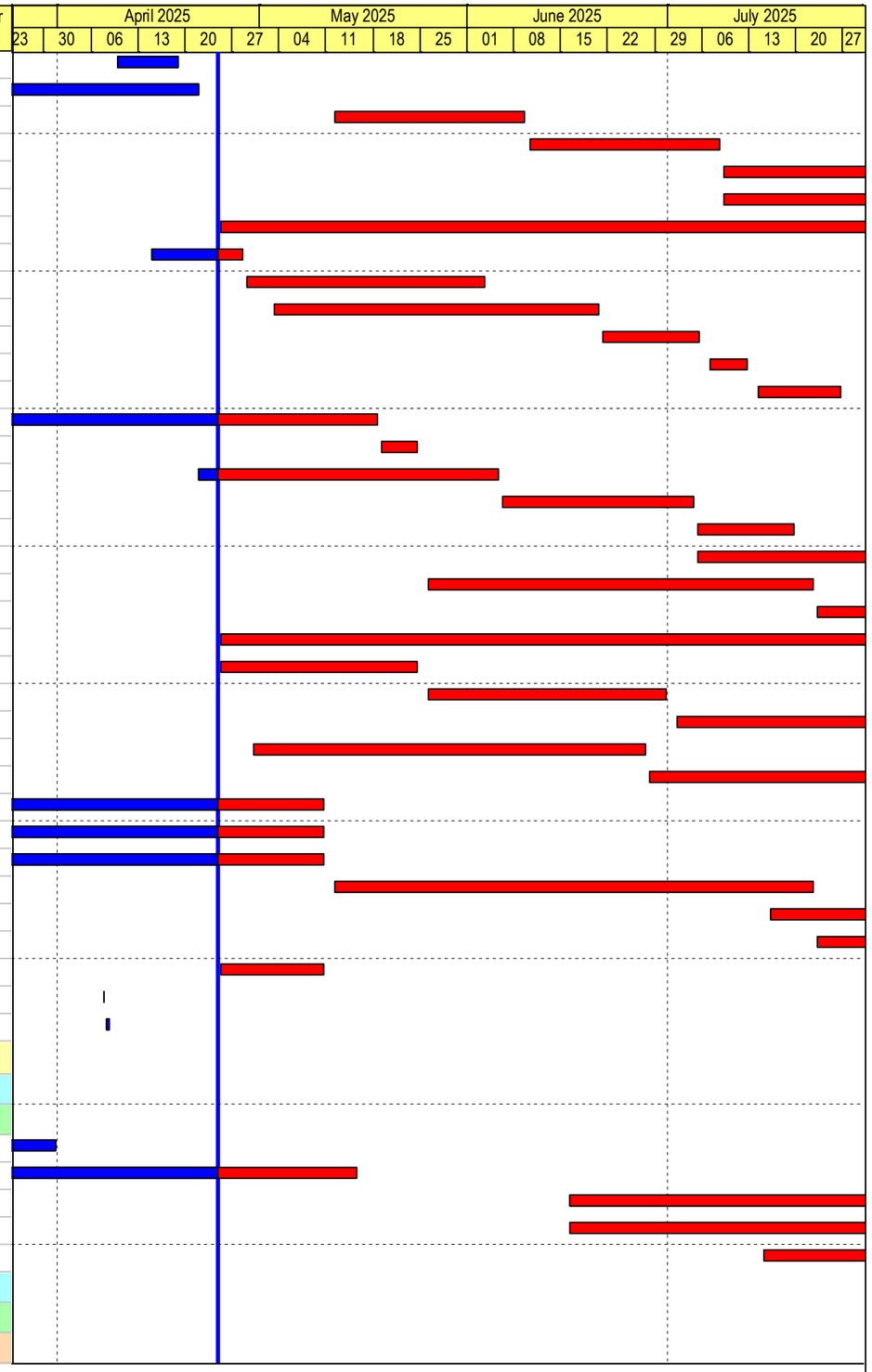
Activity ID	Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar
S8P9b-3262.094	Pipe Jacking - Pressure Test and Grouting of Sleeve Pipe for Watermains (CNE 060, CE 246)	0	10-Apr-25 A	19-Apr-25 A		CD(7d)
S8P9b-3262.096	Pipe Jacking - Pressure Test and Grouting of Sleeve Pipe for Sewerage (CNE 060, CE 246)	0	24-Mar-25 A	22-Apr-25 A		CD(7d)
S8P9b-3262.098	South of Jacking Pit - ELS & Excavation for DCS & Watermains	24	12-May-25	09-Jun-25	-173	WD(6d)
S8P9b-3262.102	South of Jacking Pit - Laying DCS Pipes	24	10-Jun-25	08-Jul-25	-173	WD(6d)
S8P9b-3262.1050	South of Jacking Pit - Testing and Commissioning (T&C) for DCS Works	30	09-Jul-25	07-Aug-25	-168	CD(7d)
S8P9b-3262.1054	South of Jacking Pit - Laying Fresh Watermain CHA & CHD & Construct Chambers (2 nos) (CE 150)	36	09-Jul-25	19-Aug-25	-173	WD(6d)
S8P9b-3262.111	Receving Pit - Duration of TTA (CNE 060, CE 246)	125	25-Apr-25	22-Sep-25	-262	WD(6d)
S8P9b-3263	Receiving Pit - Enhancement Work for lower the existing blinding level +9.60 mPD (CNE 060, CE 246)	3	15-Apr-25 A	28-Apr-25	-262	WD(6d)
S8P9b-3264	Receiving Pit - Construct DCS Chamber (Cast In-Situ Method) (CNE 060, CE 246)	28	29-Apr-25	03-Jun-25	-247	WD(6d)
S8P9b-3264.0	Receiving Pit - Construct Inspection Tee Chamber (Cast In-Situ Method) (CNE 060, CE 246)	40	03-May-25	20-Jun-25	-262	WD(6d)
S8P9b-3264.10	Receiving Pit - Backfilling to Sewerage Pipe Level +13.77 / +13.83mPD (CNE 060, CE 246)	12	21-Jun-25	05-Jul-25	-262	WD(6d)
S8P9b-3264.20	Receiving Pit - Construct Sewerage MH (0 / 2 Complete) (CNE 060, CE 246)	6	07-Jul-25	12-Jul-25	-262	WD(6d)
S8P9b-3270	Receiving Pit - Backfilling to Gate Valve Chamber Level +14.0mPD (CNE 060, CE 246)	12	14-Jul-25	26-Jul-25	-262	WD(6d)
S8P9b-3292	Additional Land Adjacent to Pipe Jacking - Seek Approal for Tree Felling and Transplant Report	24	01-Mar-25 A	18-May-25	-164	CD(7d)
S8P9b-3294	Additional Land Adjacent to Pipe Jacking - Tree Felling and Site Clearance	6	19-May-25	24-May-25	-128	WD(6d)
S8P9b-3300.00	North of Receiving Pit - ELS /Excavation for DCS Pipes and Burried Pit @ CH 770 + CHA & CHD WM Chambers	33	22-Apr-25 A	05-Jun-25	-207	WD(6d)
S8P9b-3302	North of Receiving Pit - Construct DCS Burried Pit @ CH 770 & Laying Pipes Across Road D4	24	06-Jun-25	04-Jul-25	-207	WD(6d)
S8P9b-3304	North of Receiving Pit - Testing and Commissioning (T&C) for DCS Works Burried Pit @ CH 770 to Tee Section	15	05-Jul-25	19-Jul-25	-243	CD(7d)
S8P9b-3318	North of Receiving Pit - Laying Fresh Watermain & Chanbers CHA & CHD	25	05-Jul-25	02-Aug-25	-207	WD(6d)
S8P9b-3364	Road D4 (CH 690 - 780) - Sheet Piling / ELS & Excavatoion For laying Flushing Watermain CHQ	48	26-May-25	22-Jul-25	-128	WD(6d)
S8P9b-3366	Road D4 (CH 690 - 780) - Laying Flushing Watermain CHQ & Backfilling	42	23-Jul-25	09-Sep-25	-128	WD(6d)
S8P9b-3530	Road A4 - Duration of TTA (Stage 1)	223	25-Apr-25	03-Dec-25	-163	CD(7d)
S8P9b-3540	Road A4 - Tree Felling and Site Clearance (CNE 217)	24	25-Apr-25	24-May-25	-235	WD(6d)
S8P9b-3542	Road A4 - Construct Temporary Village Access Road and Implement TTA (CNE 217)	30	26-May-25	30-Jun-25	-235	WD(6d)
S8P9b-3544	Road A4 - UU Detection, Trial Trench Excavation on Existing Ma Tso Lung Road to locate Existing UU (CNE 217)	60	02-Jul-25	09-Sep-25	-235	WD(6d)
S8P9b-3562	Road A4 - ELS & Excavation for Drainage SMHKT 5004 Connection to KT 5006A & CP6A-1 to CP-6A-2 (CNE 217)	48	30-Apr-25*	27-Jun-25	-136	WD(6d)
S8P9b-3564	Road A4 - Construction of Underground Drainage SMHKT 5004 Connection to KT 5006A (0 /2 MH complete) (CNE 217)	60	28-Jun-25	06-Sep-25	-136	WD(6d)
S8P9b-6000	Road D4 - New Formed Slope KS12 Compact fill (rock)	12	12-Apr-24 A	10-May-25	-81	WD(6d)
S8P9b-6000.0	Road D4 - New Formed Slope KS12 Compact fill (no fines)	12	02-Jan-25 A	10-May-25	-62	WD(6d)
S8P9b-6002	Road D4 - New Formed Slope KS12 Slope Drainage	12	16-Oct-24 A	10-May-25	-63	WD(6d)
S8P9b-6020	Road D4 - New Formed Sloping Ground KS14 Compact fill	60	12-May-25	22-Jul-25	-62	WD(6d)
S8P9b-6070	Road D4 - New Formed Slope KS60 Compact fill	60	16-Jul-25	23-Sep-25	-112	WD(6d)
S8P9b-7020	Road D4 - New Formed Sloping Ground KS14 Compact fill - Hydroseeding	12	23-Jul-25	05-Aug-25	-62	WD(6d)
S8P9b-7080	Road D5 - New Formed Sloping Ground KS20 Cut - Hydroseeding	12	25-Apr-25	10-May-25	-14	WD(6d)
S8P9b-7100	Road W1 - New Formed Sloping Ground KS22 Compact fill - Hydroseeding	0	08-Apr-25 A	08-Apr-25 A		WD(6d)
S8P9b-7110	Road W1 - New Formed Sloping Ground KS23 Compact fill - Hydroseeding	0	08-Apr-25 A	08-Apr-25 A		WD(6d)
Portion 8a in Area A (Soil Treatment, Reservoirs, Slope, Drainage & Roadwork)						
Forming Site Access and Site Formation						
Stage 2 General Excavation near Fresh Water Servie Reservior (Excavation Volume 299396 m3)						
S8P8a-1000	Landscape Works Road W1 - Soiling Works	0	10-Feb-25 A	31-Mar-25 A		WD(6d)
S8P8a-1010	Landscape Works Road W1 - Planting Works	16	18-Feb-25 A	15-May-25	-27	WD(6d)
S8P8a-1208	Construct & maintain Temporary drainage	48	16-Jun-25	11-Aug-25	-106	WD(6d)
S8P8a-1210	Rockfilling for New Feature KS30 and adjacent road / Remove Temp Stock Pile (CNE 220)	42	16-Jun-25	04-Aug-25	-106	WD(6d)
S8P8a-1210.00	Slopeworks for KS30 - Construct Slope Drainage (CNE 220)	24	15-Jul-25	11-Aug-25	-106	WD(6d)
KD8 - complete all works for fresh water and flushing water services reservoirs, pipe laying & road						
Construction of Kwu Tung North Flushing Water Service Reservoir (KTN FLWSR)						
Civil Works						



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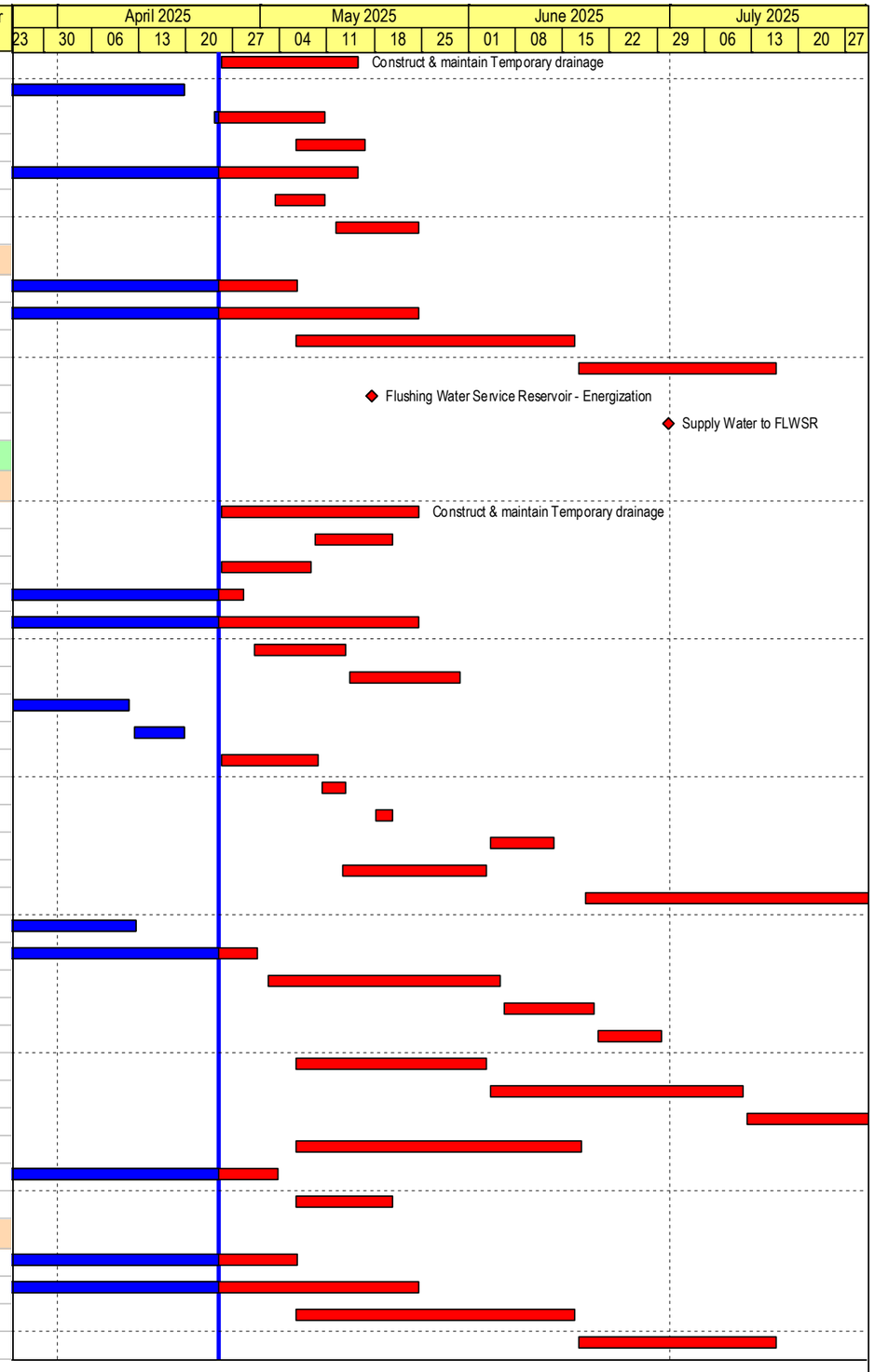
Activity ID	Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar
S8K8-1005	Construct & maintain Temporary drainage	16	25-Apr-25	15-May-25	-52	WD(6d)
S8K8-1034	Construct Recorder House	0	15-Jan-25 A	19-Apr-25 A		WD(6d)
S8K8-1038.0	Installation of Watermains inside Inlet Chamber (after design change) and Test (EWN 113)	12	24-Apr-25 A	10-May-25	-53	WD(6d)
S8K8-1038.10	Installation of Watermains inside Outlet Chamber and Test (EWN 113)	10	06-May-25	16-May-25	-53	WD(6d)
S8K8-1040	Backfilling (6559m3)	16	03-Jun-24 A	15-May-25	-52	WD(6d)
S8K8-1152	Tank No. 1 (North) - Install cat ladder	6	03-May-25	10-May-25	-35	WD(6d)
S8K8-1154	Tank No. 2 (South) - Install Remaining cat ladder	12	12-May-25	24-May-25	-35	WD(6d)
E&M Works						
S8K8-2030	Procurement of E&M equipment for KTN FLWSR	12	15-Aug-22 A	06-May-25	-80	CD(7d)
S8K8-2040	Supply, Factory Acceptance Test (FAT) & Delivery of E&M equipment for KTN FLWSR	24	07-Oct-24 A	24-May-25	-78	WD(6d)
S8K8-2050	Installation of E&M equipment for KTN FLWSR	35	06-May-25	16-Jun-25	-78	WD(6d)
S8K8-2060	Testing & Commissioning (T&C) of E&M equipment for KTN FLWSR	30	17-Jun-25	16-Jul-25	-99	CD(7d)
S8K8-2070	Flushing Water Service Reservoir - Energization	0		17-May-25	-69	CD(7d)
S8K8-2080	Supply Water to FLWSR	0		30-Jun-25	-83	CD(7d)
Construction of Kwu Tung North Freshwater Service Reservoir (KTN FWSR)						
Civil Works						
S8K8-3000	Construct & maintain Temporary drainage	24	25-Apr-25	24-May-25	-85	WD(6d)
S8K8-3037	Install Watermains inside Outlet Chamber and Overflow pipe Installation and Test (EWN 113)	10	09-May-25	20-May-25	-64	WD(6d)
S8K8-3037.0	Install Watermains inside Inlet Chamber and Test (EWN 113)	10	25-Apr-25	08-May-25	-64	WD(6d)
S8K8-3038.0	Construct Recorder House	3	10-Mar-25 A	28-Apr-25	-74	WD(6d)
S8K8-3040	Backfilling (9855m3, 2 gangs)	24	02-May-24 A	24-May-25	-85	WD(6d)
S8K8-3040.22	Tank No. 1 (North) - Grouting Works for Roof Remedial	10	30-Apr-25	13-May-25	-75	WD(6d)
S8K8-3040.24	Tank No. 1 (North) - Install cat ladder	15	14-May-25	30-May-25	-75	WD(6d)
S8K8-3040.50	Whole Structure - Fill up Tank No.1 and Pretest (EWN 110)	0	25-Mar-25 A	11-Apr-25 A		WD(6d)
S8K8-3040.60	Whole Structure - Tank No. 1 & 2 Water Tightness Test (EWN 110)	0	12-Apr-25 A	19-Apr-25 A		CD(7d)
S8K8-3040.68	Roof - Dewatering and Remedial works	11	25-Apr-25	09-May-25	-61	WD(6d)
S8K8-3040.70	Roof - Pond Roof for Water Tightness Test	3	10-May-25	13-May-25	-61	WD(6d)
S8K8-3040.80	Roof - Water Tightness Test	3	18-May-25	20-May-25	-82	CD(7d)
S8K8-3040.90	Whole Structure - Tank No. 1 & 2 Water Sterility Test (EWN 110)	10	04-Jun-25	13-Jun-25	-96	CD(7d)
S8K8-3040.92	Tank No. 2 (South) - Install cat ladder	18	13-May-25	03-Jun-25	-75	WD(6d)
S8K8-3060.10	Up Hill Receving Pit - Flushing Water Chambers Constuction (CE 142)	40	18-Jun-25	04-Aug-25	-225	WD(6d)
S8K8-3060.50	Up Hill Receving Pit - Backfill Pit to Chamber Level (CE 142)	0	15-Jan-25 A	12-Apr-25 A		WD(6d)
S8K8-3060.60	Up Hill Receving Pit - Construction of Fresh Water Chamber and Combined Access Manhole (CE 142)	5	30-Nov-24 A	30-Apr-25	-163	WD(6d)
S8K8-3060.80	Up Hill Receving Pit - Install Fresh & Flushing Watermain inside Combined Access Manhole (CE 142)	28	02-May-25	05-Jun-25	-163	WD(6d)
S8K8-3060.90	Up Hill Receving Pit - Fresh Water Chamber Watermain Installation & Connect to Trough Watermain (CE 142)	12	06-Jun-25	19-Jun-25	-63	WD(6d)
S8K8-3060.92	Road W5 - CCTV & Pressure Test for Fresh Watermains CHOD (CE 142) (PMI 137)	10	20-Jun-25	29-Jun-25	-82	CD(7d)
S8K8-3070.00	Road W5 - Construct Retaining Wall RW6 Bay 10 (0 / 1 bays complete) (CE 142) (PMI 137)	24	06-May-25	03-Jun-25	-225	WD(6d)
S8K8-3070.20	Road W5 - Construct Retaining Wall RW5 Bay 9 (0 / 1 bays complete) (CE 142) (PMI 137)	32	04-Jun-25	11-Jul-25	-162	WD(6d)
S8K8-3070.30	Road W5 - Construct Retaining Wall RW4 Bay 8 (0 / 1 bays complete) CE 142) (PMI 137)	32	12-Jul-25	18-Aug-25	-158	WD(6d)
S8K8-3070.40	Road W5 - Construct Retaining Wall RW4 Bay 7 (0 / 1 bays complete) CE 142) (PMI 137)	36	06-May-25	17-Jun-25	-225	WD(6d)
S8K8-3090	Road W5 - Construct Pipe Trough (CH 0 - CH 51.6) (CE 142) (PMI 137)	7	25-Nov-24 A	03-May-25	-225	WD(6d)
S8K8-3092	Road W5 - Laying Fresh & Flushing Watermain inside Trough (CE 142) (PMI 137)	13	06-May-25	20-May-25	-225	WD(6d)
E&M Works						
S8K8-4030	Procurement of E&M equipment for KTN FWSR	12	15-Aug-22 A	06-May-25	-80	CD(7d)
S8K8-4040	Supply, Factory Acceptance Test (FAT) & Delivery of E&M equipment for KTN FWSR	24	07-Oct-24 A	24-May-25	-78	WD(6d)
S8K8-4050	Installation of E&M equipment for KTN FWSR	35	06-May-25	16-Jun-25	-78	WD(6d)
S8K8-4060	Testing & Commissioning (T&C) of E&M equipment for KTN FWSR	30	17-Jun-25	16-Jul-25	-99	CD(7d)



Build King – Richwell Engineering Joint Venture

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ND/2019/01 - 3 Month Rolling Programme (2025-04)

Data Date: 25-Apr-25 Run Date: 30-Apr-2025

Project ID: ND201901-RP 62
Lauyout: ND201901-3MRP with logo

REVISED PROGRAMME (2025-04)			
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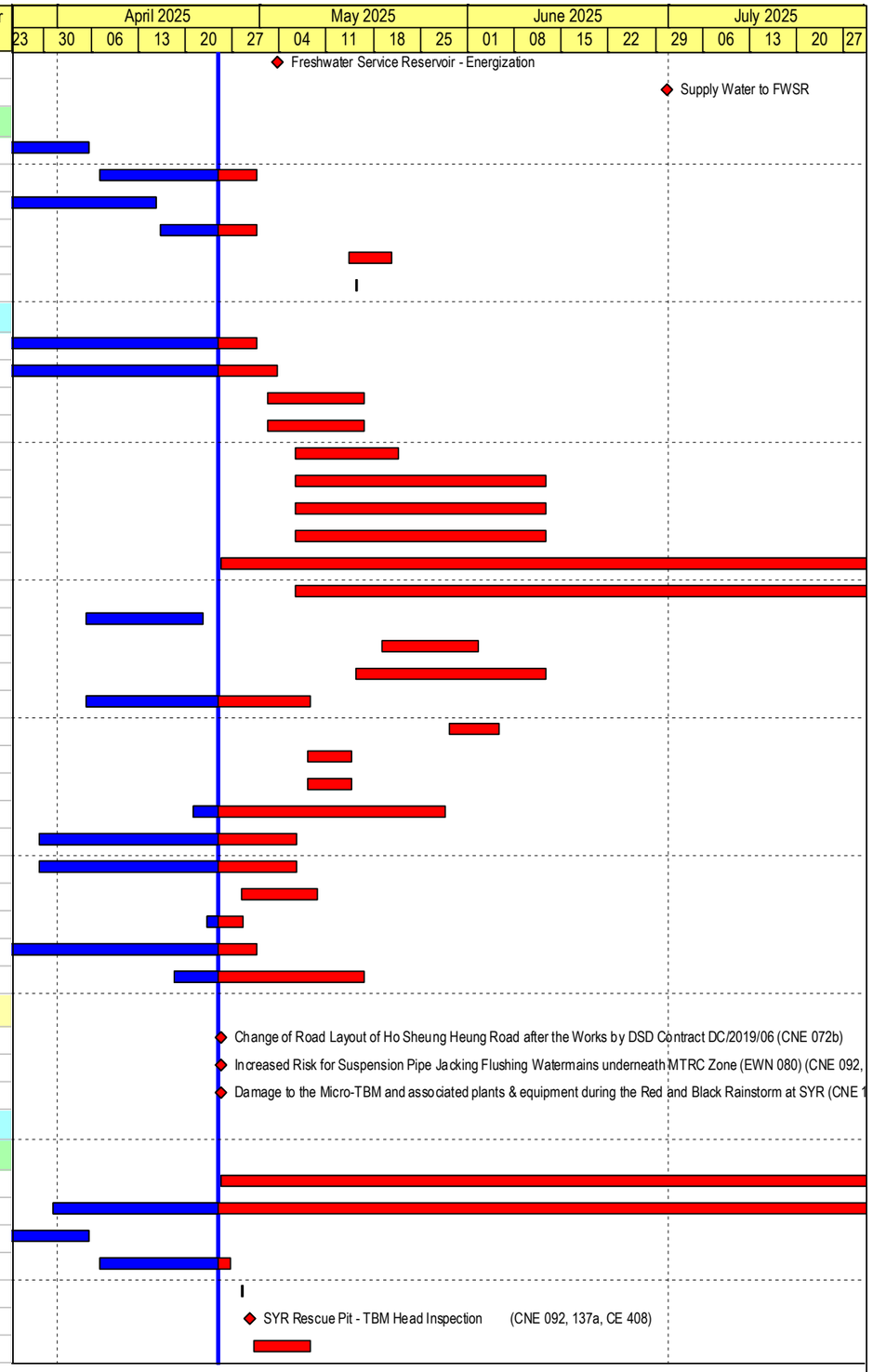
Activity ID	Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar
S8K8-4070	Freshwater Service Reservoir - Energization	0		03-May-25	-55	CD(7d)
S8K8-4080	Supply Water to FWSR	0		30-Jun-25	-83	CD(7d)
Remaining pipe laying work and roadworks within Road W1 & W2						
S8K8-4100.30	Road W3 - Backfilling to Road Formation Level	0	06-Mar-25 A	05-Apr-25 A		WD(6d)
S8K8-4100.40	Road W3 - Road Pavement Construction (9 / 10 bays Complete)	5	07-Apr-25 A	30-Apr-25	-35	WD(6d)
S8K8-4120.50	Road W4 - Backfilling to Road Formation Level CHYA & CHOD (40 to 0) (Ref KT7817)	0	03-Mar-25 A	15-Apr-25 A		WD(6d)
S8K8-4120.60	Road W4 - Road Pavement Construction (10 / 16 bays Complete)	5	16-Apr-25 A	30-Apr-25	-16	WD(6d)
S8K8-4206	Road W2 - Laying CHB connection to Outlet Chamber	6	14-May-25	20-May-25	-31	WD(6d)
S8K8-4504	Geo Feature KS63 - Hydroseeding	1	15-May-25	15-May-25	-27	WD(6d)
Remaining Civil Work in Portion 8a Area A						
S8P8a-2090.20	Slopeworks for KS27 - Construct Remaining Slope Drainage	5	15-Mar-25 A	30-Apr-25	-40	WD(6d)
S8P8a-2090.40	Slopeworks for KS27 - Reinstatement of Slope Toe	7	15-Mar-25 A	03-May-25	-106	WD(6d)
S8P8a-2200.10	Slopeworks for KS46 - Construct Remaining Slope Drainage	12	02-May-25	16-May-25	-40	WD(6d)
S8P8a-2200.12	Slopeworks for KS46 - Construct Slope Toe Drainage	12	02-May-25	16-May-25	-40	WD(6d)
S8P8a-2336	Slopeworks for KS47 - Reinstatement of Slope Toe	14	06-May-25	21-May-25	-106	WD(6d)
S8P8a-2564	Retaining wall KW06 - Drainage Construction	32	06-May-25	12-Jun-25	-50	WD(6d)
S8P8a-2604	Retaining wall KW05 - Drainage Construction	32	06-May-25	12-Jun-25	-50	WD(6d)
S8P8a-2664	Retaining wall KW11 - Drainage Construction	32	06-May-25	12-Jun-25	-50	WD(6d)
S8P8a-3046	Construct & maintain Temporary drainage	101	25-Apr-25	25-Aug-25	-106	WD(6d)
S8P8a-3090	Remove Temporary Haul Road from Additional Land Adjacent to Portion 8a (CNE 220)	94	06-May-25	25-Aug-25	-106	WD(6d)
S8P8a-5040	Road W1 - Construct New Formed Rock Fill Slope KS50 (No fines CH0 - CH80)	0	05-Apr-25 A	22-Apr-25 A		WD(6d)
S8P8a-5050.0	Slopeworks for KS50 - Construct Slope Drainage (CE 613)	12	19-May-25	02-Jun-25	-41	WD(6d)
S8P8a-5900.84	KW11 at CH775 to CH780 - Construct Outfall for PC2	24	15-May-25	12-Jun-25	-62	WD(6d)
S8P8a-6032.20	Road W1 - Road Pavement Construction SMH KT 7018A connection to KT 7019A connection (9 / 13 bays Complete)	10	05-Apr-25 A	08-May-25	-27	WD(6d)
S8P8a-6032.40	Road W1 - Footpath Construction	6	29-May-25	05-Jun-25	-44	WD(6d)
S8P8a-6034.60	Road W1 - Footpath Construction	6	08-May-25	14-May-25	-26	WD(6d)
S8P8a-6106	Road W1 - Footpath Construction	6	08-May-25	14-May-25	-26	WD(6d)
S8P8a-7200	Road W1 & W2 - Erect Security Fence and Install Gate	27	21-Apr-25 A	28-May-25	-54	WD(6d)
S8P8a-7230	Road W1 & W2 - Power Cable Laying by CLP (Road A5 to Fresh Water Reservior)	8	29-Mar-25 A	06-May-25	-19	WD(6d)
S8P8a-7240	Road W1 & W2 - Teleocm Cable Laying	8	29-Mar-25 A	06-May-25	-19	WD(6d)
S8P8a-7250	FLWSR Pillar Box Including Metal Works	9	28-Apr-25	09-May-25	-54	WD(6d)
S8P8a-7260	FWSR Pillar Box Including Metal Works	3	23-Apr-25 A	28-Apr-25	-43	WD(6d)
S8P8a-7270	Road W1 - Install Crash Beam Barriers	5	27-Jan-25 A	30-Apr-25	-28	WD(6d)
S8P8a-7280	Road W2 - Install Crash Beam Barriers	16	18-Apr-25 A	16-May-25	-28	WD(6d)
Portion 8b in Area A (Soil Treatment & Install Watermains by Trenchless / Open Trench Method)						
S8P8b-1008	Change of Road Layout of Ho Sheung Heung Road after the Works by DSD Contract DC/2019/06 (CNE 072b)	0		25-Apr-25	-165	CD(7d)
S8P8b-8170	Increased Risk for Suspension Pipe Jacking Flushing Watermains underneath MTRC Zone (EWN 080) (CNE 092, 092a, CE 408)	0		25-Apr-25	-241	CD(7d)
S8P8b-8174	Damage to the Micro-TBM and associated plants & equipment during the Red and Black Rainstorm at SYR (CNE 137a)	0		25-Apr-25	-241	CD(7d)
Construction of Watermains						
Construction of watermains by trenchless method						
S8P8b-4000	Construct & maintain Temporary drainage	346	25-Apr-25	24-Jun-26	-262	WD(6d)
S8P8b-4012.300	Preparation & Resume Inclined Driling & Grouting 9 / 18 (1 Rig / 3 Working nights per week) (CNE 092, 158, 160,CE 408)	49	31-Mar-25 A	21-Aug-25	-124	WD(3d)
S8P8b-4013.072	SYR Rescue Pit - S3 Preloading/ Fabricate Steel Cover/ Core Conc. Pipe (CNE 092, 137a, CE 408)	0	24-Mar-25 A	05-Apr-25 A		WD(6d)
S8P8b-4013.074	SYR Rescue Pit - Clean CSP (CNE 092, 137a, CE 408)	2	07-Apr-25 A	26-Apr-25	-194	WD(6d)
S8P8b-4013.076	SYR Rescue Pit - Rescue Drill for TBM Head Inspection	1	28-Apr-25	28-Apr-25	-194	WD(6d)
S8P8b-4013.08	SYR Rescue Pit - TBM Head Inspection (CNE 092, 137a, CE 408)	0		29-Apr-25	-112	WD(6d)
S8P8b-4013.080	SYR Rescue Pit - TBM Report (CNE 092, 137a, CE 408)	6	30-Apr-25	08-May-25	-112	WD(6d)



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ND/2019/01 - 3 Month Rolling Programme (2025-04)

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REVISED PROGRAMME (2025-04)			
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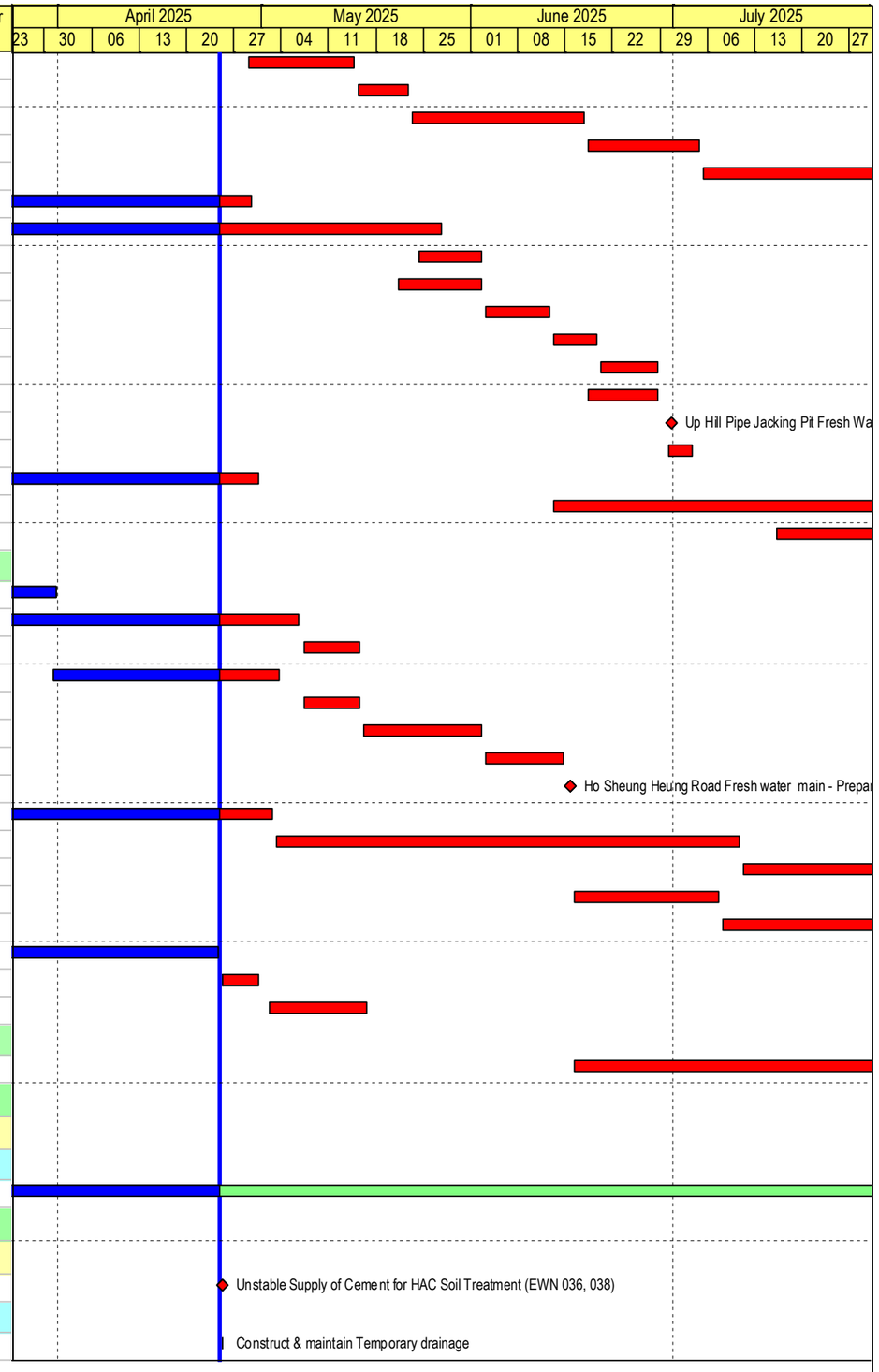
Activity ID	Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar
S8P8b-4013.081	SYR Rescue Pit - Clean or Reinstall Dewatering Well & Observation Well (CNE 092, 137a, CE 408)	12	29-Apr-25	14-May-25	-194	WD(6d)
S8P8b-4013.082	SYR Rescue Pit - Pumping Test (CNE 092, 137a, CE 408)	7	15-May-25	22-May-25	-194	WD(6d)
S8P8b-4013.083	SYR Rescue Pit - Excavate to Final Excavation Level (CNE 092, 137a, CE 408)	21	23-May-25	17-Jun-25	-194	WD(6d)
S8P8b-4013.084	SYR Rescue Pit - Stage 2 Grouting (CNE 092, 137a, CE 408)	14	18-Jun-25	04-Jul-25	-194	WD(6d)
S8P8b-4013.085	SYR Rescue Pit - Set up new TBM (CNE 092, 137a, CE 408)	35	05-Jul-25	14-Aug-25	-194	WD(6d)
S8P8b-4142	Up Hill Pipe Jacking Pit - Fresh Watermains (2 Nos DN 800) CCTV, Grouting & Pressure Test (CE 142)	4	03-Feb-25 A	29-Apr-25	-132	WD(6d)
S8P8b-4144	Up Hill Pipe Jacking Pit Fresh Water Chamber Stage U1 - Driving Sheet Pile, ELS, RC Chamber, Pipe Fitting	26	19-Mar-25 A	27-May-25	-132	WD(6d)
S8P8b-4144.0	Up Hill Pipe Jacking Pit Fresh Water Chamber Stage U1 - Watermain Installation and Fitting	7	24-May-25	02-Jun-25	-132	WD(6d)
S8P8b-4146	Up Hill Pipe Jacking Pit Fresh Water Chamber Stage L1 - ELS Modification, RC Chamber, Backfill, Remove ELS	10	21-May-25	02-Jun-25	-113	WD(6d)
S8P8b-4150	Up Hill Pipe Jacking Pit Fresh Water Chamber Stage L2 - ELS Modification, RC Chamber, Backfill, Remove ELS	9	03-Jun-25	12-Jun-25	-113	WD(6d)
S8P8b-4152	Up Hill Pipe Jacking Pit Fresh Water Chamber Stage L3 - ELS Modification, RC Chamber, Backfill, Remove ELS	6	13-Jun-25	19-Jun-25	-82	WD(6d)
S8P8b-4154	Up Hill Pipe Jacking Pit Fresh Water Chamber Stage L4 - Erect Fwk, Rebar fixing & Cast Roof Slab	8	20-Jun-25	28-Jun-25	-82	WD(6d)
S8P8b-4156	Up Hill Pipe Jacking Pit Fresh Water Chamber - Install Down Pipe & Connect to Uphill Watermain	10	18-Jun-25	28-Jun-25	-82	WD(6d)
S8P8b-4158	Up Hill Pipe Jacking Pit Fresh Water Chamber - Supply Water to Service Reserviors	0		30-Jun-25	-65	WD(6d)
S8P8b-4158.0	Up Hill Pipe Jacking Pit Fresh Water Chamber - Backfilling Works	3	30-Jun-25	03-Jul-25	-82	WD(6d)
S8P8b-4162	Up Hill Pipe Jacking Pit - Flushing Watermains (2 Nos DN 700) CCTV, Grouting & Pressure Test (CE 142)	5	20-Jan-25 A	30-Apr-25	-79	WD(6d)
S8P8b-4180.0	Up Hill Pipe Jacking Pit Flushing Water Chamber Stage 1 - RC Chamber, Pipe Fitting	48	13-Jun-25	08-Aug-25	-113	WD(6d)
S8P8b-4190	Up Hill Pipe Jacking Pit Flushing Water Chamber Stage 2 - ELS Modification, RC Chamber, Backfill, Remove ELS	72	16-Jul-25	09-Oct-25	-75	WD(6d)
Construction of watermains by open trench method						
S8P8b-7108.00	Ho Sheung Heung Road Fresh water main - Excavation, Laying Pipes and Backfilling (CHO 429 to 433) (CNE 072)	0	12-Mar-25 A	31-Mar-25 A		WD(6d)
S8P8b-7108.02	Ho Sheung Heung Road Fresh water main - Reinstatement, RA Application and TTA Implementation (CHO 411 - 428)	8	15-Mar-25 A	06-May-25	-132	WD(6d)
S8P8b-7108.04	Ho Sheung Heung Road Fresh water main - Excavation, Laying Pipes and Backfilling (CHO 411 to 428) (CNE 072)	8	07-May-25	15-May-25	-132	WD(6d)
S8P8b-7108.08	Ho Sheung Heung Road Fresh water main - Excavation, Laying Pipes and Backfilling (CH370 - 392)	7	31-Mar-25 A	03-May-25	-131	WD(6d)
S8P8b-7108.50	Ho Sheung Heung Road Fresh water main - Excavation, Laying Pipes and Backfilling (CHO 392 to 403) (CNE 072)	8	07-May-25	15-May-25	-132	WD(6d)
S8P8b-7108.60	Ho Sheung Heung Road Fresh water main - TTA / UU/ T pit/ Exca/ Laying Pipes and Backfilling (CHO 370 - Existing Conn)	14	16-May-25	02-Jun-25	-132	WD(6d)
S8P8b-7108.70	Ho Sheung Heung Road Fresh water main - CCTV, Pressure Test and Water Sample (CHO to Existing Connection)	12	03-Jun-25	14-Jun-25	-170	CD(7d)
S8P8b-7109	Ho Sheung Heung Road Fresh water main - Preparation Works / 2nd Suspension/ Diversion (CNE 072)	0		15-Jun-25	-68	CD(7d)
S8P8b-8010	HSH Rd Flushing water main - TTA, Excava, Remove Ext. DN 700, Laying Pipes and Backfilling (CHY 875 to 895) (CNE 072)	6	03-Feb-25 A	02-May-25	-230	WD(6d)
S8P8b-8020	HSH Rd Flushing water main - TTA, Excava, Remove Ext. DN 700, Laying Pipes and Backfilling (CHY 820 to 875) (CNE 072)	56	03-May-25	10-Jul-25	-230	WD(6d)
S8P8b-8040	HSH Rd Flushing water main - TTA,Excava, Remove Ext. DN 700, Laying Pipes and Backfilling (CHY 765 to 820) (CNE 072)	50	11-Jul-25	06-Sep-25	-230	WD(6d)
S8P8b-8120	HSH Rd Flushing water main - TTA, Excavation, Laying Pipes and Backfilling (CHY 587 to Jacking Pit) (CNE 072)	18	16-Jun-25	07-Jul-25	-135	WD(6d)
S8P8b-8140	HSH Rd Flushing water main - TTA,Excava, Remove Ext. DN 700, Laying Pipes and Backfilling (587 to 621) (CNE 072)	44	08-Jul-25	27-Aug-25	-135	WD(6d)
S8P8b-8330	Ho Sheung Heung Road (CHO 818 to 872) - Reinstate Existing Rd (CHO 818 to 872)	0	10-Feb-25 A	24-Apr-25 A		WD(6d)
S8P8b-8340	Ho Sheung Heung Road (CHO 818 to 872) - TTA & Divert Traffic to Permanent Road	5	25-Apr-25 A	30-Apr-25	-28	WD(6d)
S8P8b-8350	Ho Sheung Heung Road - Demolish and Remove Temporary Road	12	02-May-25	16-May-25	-28	WD(6d)
Testing and commissioning of watermains						
S8P8b-6000	Testing and commissioning of Fresh Watermains	72	16-Jun-25	08-Sep-25	-29	WD(6d)
Section 9						
Portion 12 in Area F (Soil Treatment & Interface with EMSD's Contractors)						
Soil Treatment						
S9P12-3060	Tunnel Monitoring during Construction Works within MTRC Protectiion Zone in Portion 1a	145	28-Dec-23 A	16-Sep-25	185	CD(7d)
Section 11						
Portion 6b in Area B (Soil Treatment & Operation of HAC Soil Treatment Plant)						
S11P6b-1002	Unstable Supply of Cement for HAC Soil Treatment (EWN 036, 038)	0		25-Apr-25	-75	CD(7d)
KD4 - Setting up and T&C of the High Arsenic-containing Soil Treatment Plant						
S11P6b-2005	Construct & maintain Temporary drainage	0	25-Apr-25	25-Apr-25	567	WD(6d)



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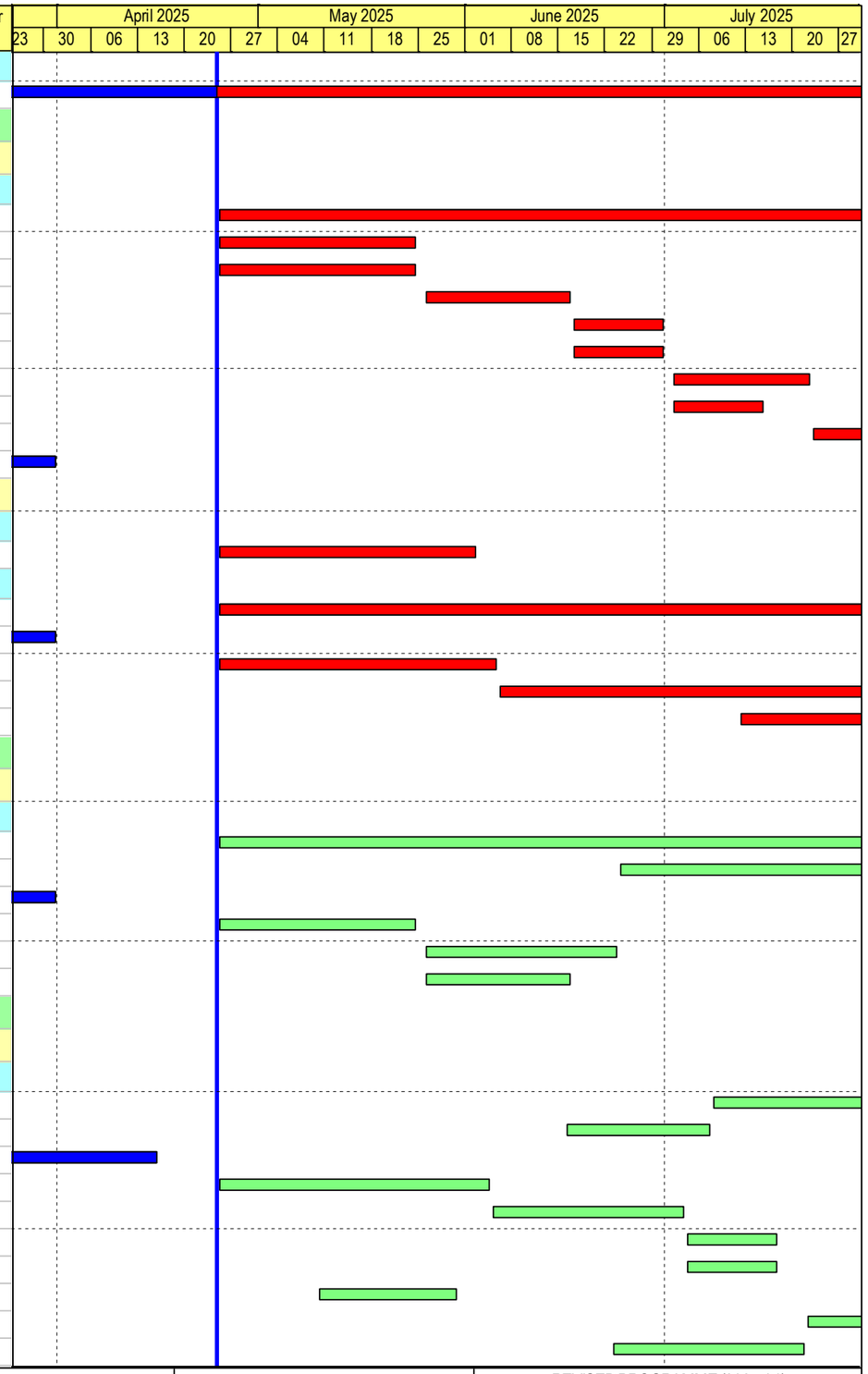
Activity ID	Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar
Operation and Dismantling of the Soil Treatment Plant						
S11P6b-3010	Provide treatment to high arsenic-containing soil	166	03-Dec-20 A	12-Nov-25*	-226	WD(6d)
Section 12A						
Portion 10b in Area L1 (Soil Treatment, Drainage & Roadwork)						
Civil Work						
S12P10b-3000	Construct & maintain Temporary drainage	120	25-Apr-25	16-Sep-25	-294	WD(6d)
S12P10b-3002	Underground Primary Drainage Laying DN900 Pipe SMHKT 8008 connection to 8008A to 8009 Connection (0/1 MH) (CNE 211)	24	25-Apr-25	24-May-25	-294	WD(6d)
S12P10b-3002.0	Underground Primary Drainage - Lay Inlet Pipe to SMHKT 8005 (CNE 211)	24	25-Apr-25	24-May-25	-276	WD(6d)
S12P10b-3002.10	Underground Primary Drainage - Lay Inlet Pipe to SMHKT 8008A (CNE 211)	18	26-May-25	16-Jun-25	-294	WD(6d)
S12P10b-3004	Underground Sewerage - Lay Inlet Pipe to FMHKT 4.03 (CNE 156) (CNE 211)	12	17-Jun-25	30-Jun-25	-294	WD(6d)
S12P10b-3006	Underground Sewerage - Laying DN450 Pipe from FMHKT 4.03 to 4.02 (Partial only) (CE 256) (CNE 211)	12	17-Jun-25	30-Jun-25	-294	WD(6d)
S12P10b-3012	Underground Secondary Drainage work M1.40 to M1.41 (0 / 2 SM/H) (CNE 211)	18	02-Jul-25	22-Jul-25	-294	WD(6d)
S12P10b-3014	Laying Underground Fresh & Flushing Watermains (CNE 211)	12	02-Jul-25	15-Jul-25	-288	WD(6d)
S12P10b-3016	Laying Underground utilities (CNE 211)	24	23-Jul-25	19-Aug-25	-294	WD(6d)
S12P10b-4010	DCS Works by Others - Stage 1 (Commencement Date Jan-2024) "Return Overdue" (CNE 211)	0	09-Jan-24 A	31-Mar-25 A		CD(7d)
Portion 11b in Area L1 (Soil Treatment, Drainage & Roadwork)						
Soil Treatment						
S12P11b-2020	Backfilling to the formation levels	30	25-Apr-25	02-Jun-25	-317	WD(6d)
Civil Work						
S12P11b-3000	Construct & maintain Temporary drainage	111	25-Apr-25	05-Sep-25	-320	WD(6d)
S12P11b-4002	DCS Works by Others (Anticipated Commencement Date 2 Jul 2024) "Return Overdue" (CNE 211)	0	04-Jul-24 A	31-Mar-25 A		CD(7d)
S12P11b-4030	Laying Underground Fresh & Flushing Watermains (CNE 211)	33	25-Apr-25	05-Jun-25	-320	WD(6d)
S12P11b-4040	Laying Underground utilities (CNE 211)	48	06-Jun-25	01-Aug-25	-320	WD(6d)
S12P11b-4050	Pressure test for Fresh & Flushing watermains (CNE 211)	18	12-Jul-25	01-Aug-25	-320	WD(6d)
Section 12B						
Portion 11b in Area L2 (Soil Treatment, Drainage & Roadwork)						
Civil Work						
S12BP11b-3000	Construct & maintain Temporary drainage	96	25-Apr-25	19-Aug-25	36	WD(6d)
S12BP11b-3020	Roadwork (1070m2)	48	24-Jun-25	19-Aug-25	36	WD(6d)
S12BP11b-3050	DCS Works by Others (Anticipated Commencement Date Sep 2024) "Return Overdue"	0	22-Aug-24 A	31-Mar-25 A		CD(7d)
S12P11b-4080	Laying Underground Fresh & Flushing Watermains	24	25-Apr-25	24-May-25	36	WD(6d)
S12P11b-4090	Laying Underground utilities	24	26-May-25	23-Jun-25	36	WD(6d)
S12P11b-4100	Pressure test for Fresh & Flushing watermains	18	26-May-25	16-Jun-25	43	WD(6d)
Section 13						
Portion 2 in Area N (Soil Treatment, Slope, Drainage & Pak Shek Au Junction)						
Civil Works						
S13P2- 4052.40	East Quadrant Kwu Tung Road - New Feature KS39 Construct Slope Drainage	24	08-Jul-25	04-Aug-25	157	WD(6d)
S13P2- 4052.52	East Quadrant Kwu Tung Road - Construct New Feature KS39 (Remaining Slope)	18	16-Jun-25	07-Jul-25	157	WD(6d)
S13P2- 5022	West Quadrant Additional Land - Formation & Road widening) (Clash w/ Ext Watermain EWN 112) Revd Dwgs recvd 16/Apr	0	09-Dec-24 A	16-Apr-25 A		WD(6d)
S13P2- 5030	West Quadrant Additional Land - Road Widening Works (Western Part Kwu Tung Road - Stage 2)	32	25-Apr-25	04-Jun-25	52	WD(6d)
S13P2- 5032	West Quadrant - Construction of Footpath (After Remaining Draiange & Backfilling KW37) (Stage 2 - West corner)	24	05-Jun-25	03-Jul-25	88	WD(6d)
S13P2- 5034	West Quadrant - Remaining Installation of smart road lightings system	12	04-Jul-25	17-Jul-25	88	WD(6d)
S13P2- 5036	Retaining Wall KW37 - Construct Maintenance Stair Case	12	04-Jul-25	17-Jul-25	88	WD(6d)
S13P2- 5292	South Quadrant - Slope KS38 Cut Lower slope	18	10-May-25	30-May-25	25	WD(6d)
S13P2- 5294	South Quadrant - Slope KS38 Lower slope Drainage and Maintenance Access Construction	12	22-Jul-25	04-Aug-25	25	WD(6d)
S13P2- 5300	South Quadrant - Construct U Channel Drainage and Berm (Row C to J)	24	23-Jun-25	21-Jul-25	25	WD(6d)



Build King – Richwell Engineering Joint Venture

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ND/2019/01 - 3 Month Rolling Programme (2025-04)

Data Date: 25-Apr-25 Run Date: 30-Apr-2025

Project ID: ND201901-RP 62
Layout: ND201901-3MRP with logo

REVISED PROGRAMME (2025-04)			
Date	Revision	Checked	Approved
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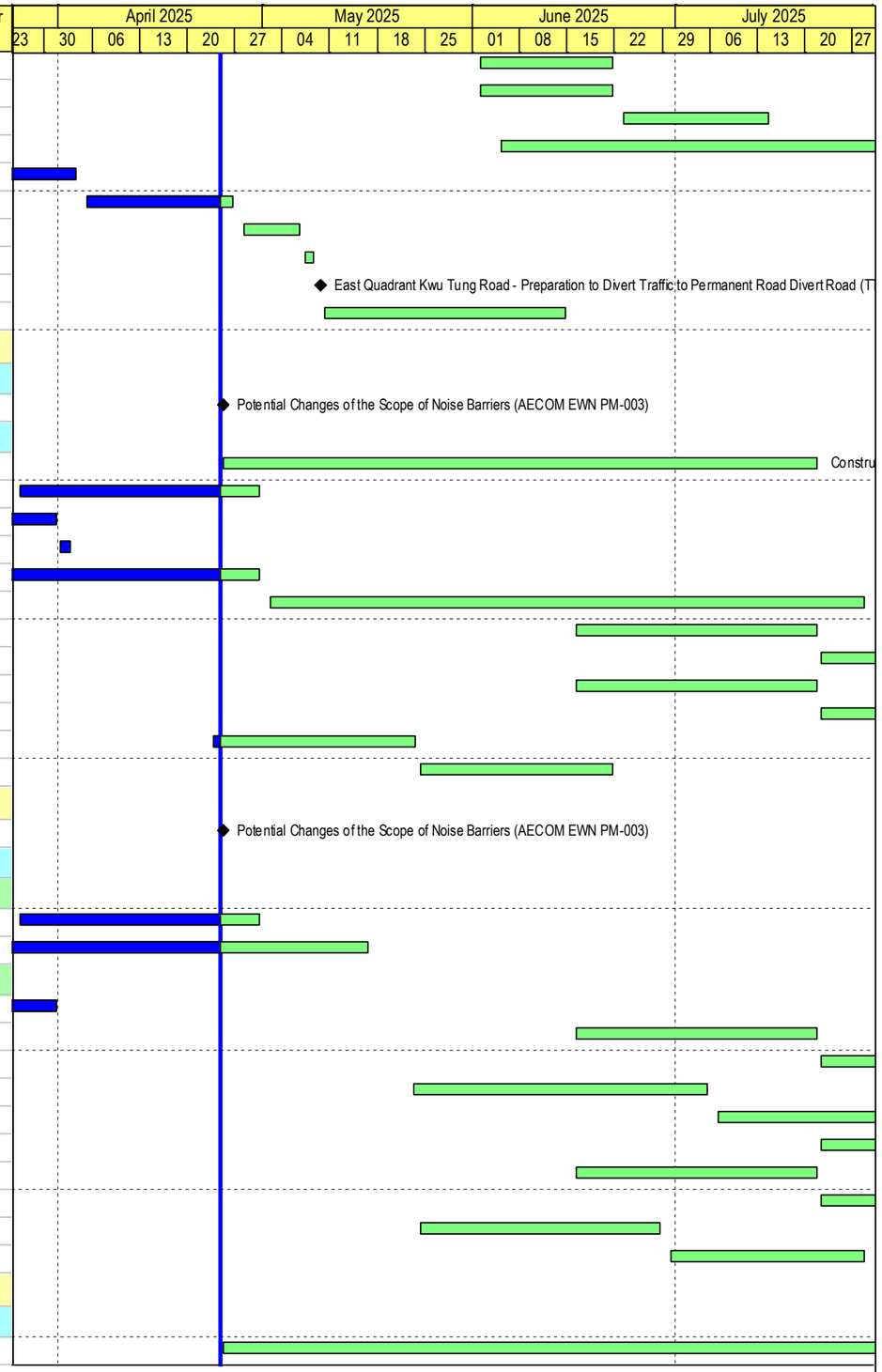
Activity ID	Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar
S13P2- 5320	South Quadrant - Erect Platform and Soil Nail (2SE-B/CR148 & KS38) Row B (38 Nos)	18	02-Jun-25	21-Jun-25	25	WD(6d)
S13P2- 5330	South Quadrant - Erect Platform and Soil Nail (2SE-B/CR148 & KS38) Row A (38 Nos)	18	02-Jun-25	21-Jun-25	25	WD(6d)
S13P2- 5340	South Quadrant - Construct U Channel Drainage and Berm (Row A & B)	18	23-Jun-25	14-Jul-25	43	WD(6d)
S13P2- 6020	West Quadrant - Existing Feature 2SE-B/C157 Loose Fill to be Replaced by Compact fill	72	05-Jun-25	28-Aug-25	52	WD(6d)
S13P2- 6680	East Quadrant Kwu Tung Road - Break Existing Rd pavement & Construction of Road Drainage MH M6.31 to 6.33A (4 / 4 MH)	0	17-Feb-25 A	03-Apr-25 A		WD(6d)
S13P2- 6682	East Quadrant Kwu Tung Road - Construct Road Gulley	2	05-Apr-25 A	26-Apr-25	25	WD(6d)
S13P2- 6684	East Quadrant Kwu Tung Road - Backfill and lay Sub base Course	6	28-Apr-25	06-May-25	25	WD(6d)
S13P2- 6686	East Quadrant Kwu Tung Road - Lay Base course and Blinder Course	2	07-May-25	08-May-25	25	WD(6d)
S13P2- 6700	East Quadrant Kwu Tung Road - Preparation to Divert Traffic to Permanent Road Divert Road (TTA Stage 3)	0		09-May-25	25	WD(6d)
S13P2- 6710	East Quadrant Kwu Tung Road - Demolish TTA Stage 2 Temp Road	30	10-May-25	14-Jun-25	133	WD(6d)
Portion 1a in Area N (Soil Treatment, Drainage & Roadwork)						
Preparation work/Tree Survey/Site Clearance/Gl						
S13P1a-0102	Potential Changes of the Scope of Noise Barriers (AECOM EWN PM-003)	0		25-Apr-25	173	CD(7d)
Civil Work						
S13P1a-3000	Construct & maintain Temporary drainage	71	25-Apr-25	21-Jul-25	137	WD(6d)
S13P1a-3024	Pressure test for Fresh & Flushing watermains	6	26-Mar-25 A	30-Apr-25	40	CD(7d)
S13P1a-3026.0	Sub base & SRT (CH 130 - 180)	0	24-Mar-25 A	31-Mar-25 A		WD(6d)
S13P1a-3026.00	Laying Road Base course (CH 130 - 180)	0	01-Apr-25 A	02-Apr-25 A		WD(6d)
S13P1a-3028	Laying Underground Utilities (Handover to CLP, Towngas, HKT - 19 Mar 2025)	6	19-Mar-25 A	30-Apr-25	167	CD(7d)
S13P1a-3030	Roadwork (1630m2)	72	02-May-25	28-Jul-25	137	WD(6d)
S13P1a-3032	Road Works - Irrigation System Installation - East bound Footpath	30	16-Jun-25	21-Jul-25	137	WD(6d)
S13P1a-3034	Testing and Commissioning (T&C) for Irrigation System - East bound Footpath	30	22-Jul-25	20-Aug-25	167	CD(7d)
S13P1a-3036	Road Works - Irrigation System Installation - West bound Footpath	30	16-Jun-25	21-Jul-25	137	WD(6d)
S13P1a-3038	Testing and Commissioning (T&C) for Irrigation System - West bound Footpath	30	22-Jul-25	20-Aug-25	167	CD(7d)
S13P1a-3060	South Footpath Formation, SRT & Road Lighting	23	24-Apr-25 A	23-May-25	167	WD(6d)
S13P1a-3070	South Footpath Paving	24	24-May-25	21-Jun-25	167	WD(6d)
Portion 7 in Area N (Soil Treatment, Drainage & Roadwork)						
S13P7-0000	Potential Changes of the Scope of Noise Barriers (AECOM EWN PM-003)	0		25-Apr-25	24	CD(7d)
Civil Work						
Underground Utilities						
S13P7-3013.20	Pressure test for Watermains	6	26-Mar-25 A	30-Apr-25	40	CD(7d)
S13P7-3025	Laying Underground Utilities (Handover to CLP, Towngas, HKT - 1 Mar 2025)	22	01-Mar-25 A	16-May-25	24	CD(7d)
Roadworks						
S13P7-3013.12	Footpath - Compaction/ SRT / Lay Road Lighting ducts	0	25-Oct-24 A	31-Mar-25 A		WD(6d)
S13P7-3022	Road Works Irrigation System Installation - East bound Footpath	30	16-Jun-25	21-Jul-25	137	WD(6d)
S13P7-3024	Testing and Commissioning (T&C) for Irrigation System - East bound Footpath	30	22-Jul-25	20-Aug-25	167	CD(7d)
S13P7-3030	Installation of smart road lightings system	36	23-May-25	05-Jul-25	166	WD(6d)
S13P7-3032	Road Fixture and Road Furnitre	46	07-Jul-25	28-Aug-25	166	WD(6d)
S13P7-3040	T&C for smart road lightings system	30	22-Jul-25	20-Aug-25	212	CD(7d)
S13P7-3050	Road Works Irrigation System Installation - West bound Footpath	30	16-Jun-25	21-Jul-25	137	WD(6d)
S13P7-3052	Testing and Commissioning (T&C) for Irrigation System - West bound Footpath	30	22-Jul-25	20-Aug-25	167	CD(7d)
S13P7-3100	South Footpath Formation, SRT & Road Lighting	30	24-May-25	28-Jun-25	193	WD(6d)
S13P7-3110	South Footpath Paving	24	30-Jun-25	28-Jul-25	193	WD(6d)
Portion 1b in Area N (Soil Treatment, Drainage & Roadwork)						
Civil Work						
S13P1b-3000	Construct & maintain Temporary drainage	187	25-Apr-25	06-Dec-25	21	WD(6d)



Build King – Richwell Engineering Joint Venture

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ND/2019/01 - 3 Month Rolling Programme (2025-04)

Data Date: 25-Apr-25 Run Date: 30-Apr-2025

Project ID: ND201901-RP 62
Lauyout: ND201901-3MRP with logo

REVISED PROGRAMME (2025-04)			
Date	Revision	Checked	Approved
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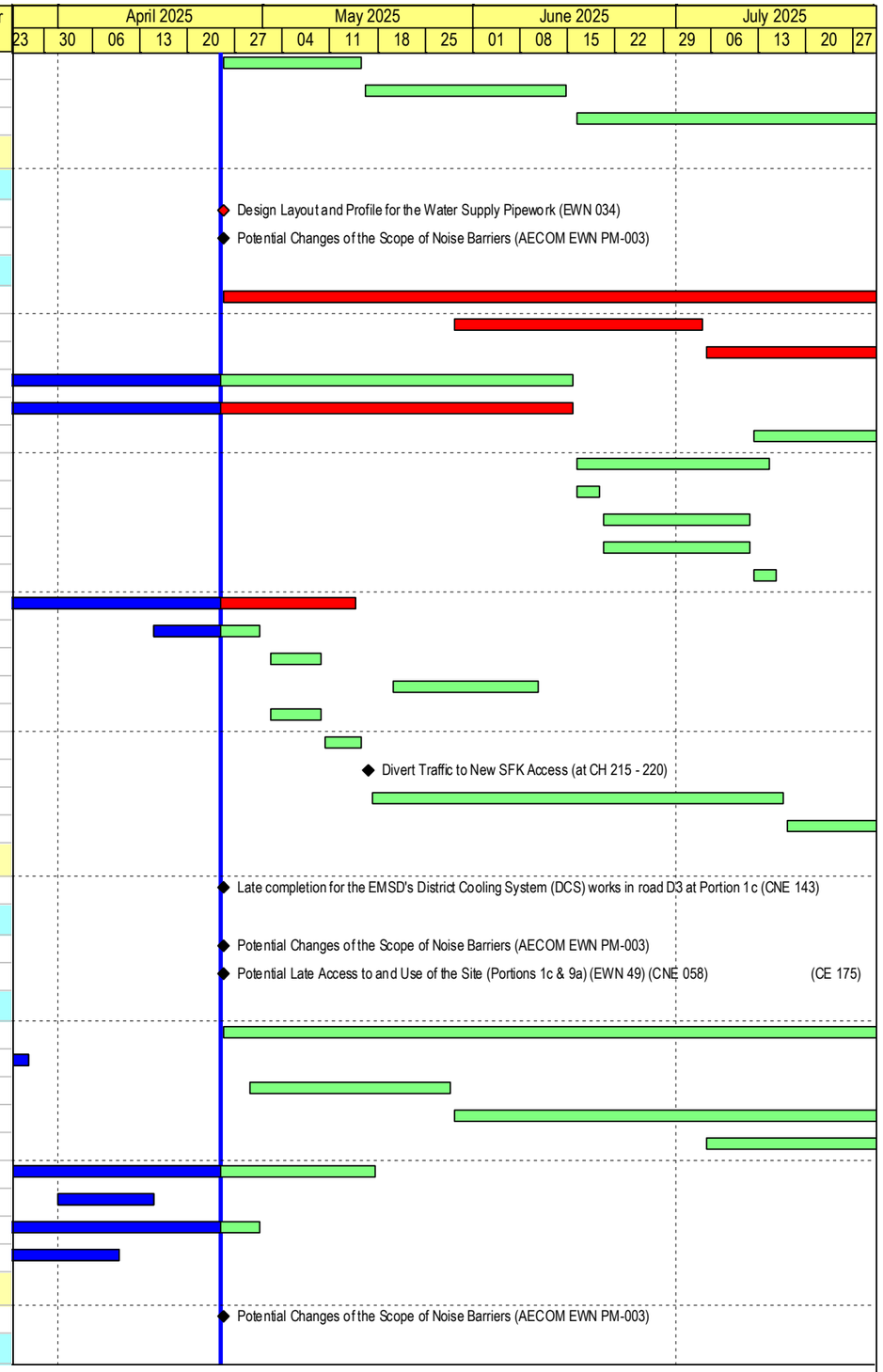
Activity ID	Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar
S13P1b-3012.10	Laying Remainig Sewerage Pipe	16	25-Apr-25	15-May-25	21	WD(6d)
S13P1b-3014.04	Backfilling to Formation Level	25	16-May-25	14-Jun-25	21	WD(6d)
S13P1b-3016	Laying Underground Utilities (Handover to CLP, Towngas, HKT - 01 Feb 2025)	38	16-Jun-25	30-Jul-25	21	WD(6d)
Portion 6a & 5 in Area N (Soil Treatment, Noise Barrier, Drainage & Roadwork)						
Preparation work/Tree Survey/Site Clearance/GI						
S13P6a-1003	Design Layout and Profile for the Water Supply Pipework (EWN 034)	0		25-Apr-25	-11	CD(7d)
S13P6a-1005	Potential Changes of the Scope of Noise Barriers (AECOM EWN PM-003)	0		25-Apr-25	103	CD(7d)
Civil Work						
S13P6a-3000	Construct & maintain Temporary drainage	217	25-Apr-25	14-Jan-26	-9	WD(6d)
S13P6a-3018	Laying of Fresh Watermain CH I & Flushing Watermain CH QA	30	29-May-25	04-Jul-25	-9	WD(6d)
S13P6a-3020	Site formation and SRT for Footpath	24	05-Jul-25	01-Aug-25	-9	WD(6d)
S13P6a-4000	DCS Works by Others - Stage 1 (Anticipated Commencement Date Sep-2024) 'To be Confirmed'	52	02-Sep-24 A	15-Jun-25	1	CD(7d)
S13P6a-4002	DCS Works by Others - Stage 2 (Anticipated Commencement Date Oct-2024) 'To be Confirmed'	52	15-Oct-24 A	15-Jun-25	-11	CD(7d)
S13P6a-4018	Pressure test for watermains	24	12-Jul-25	04-Aug-25	1	CD(7d)
S13P6a-4030	Secondary Drainage works - (0 / 10 MH complete)	24	16-Jun-25	14-Jul-25	7	WD(6d)
S13P6a-4032	Excavate CommonTrench for Watermains/ Civil Provisions/ CLP & HKT)	4	16-Jun-25	19-Jun-25	1	WD(6d)
S13P6a-4040	Laying of Fresh Watermain CH J & Flushing Watermain CH T	18	20-Jun-25	11-Jul-25	1	WD(6d)
S13P6a-4042	Civil Provision for CLP & HKT	18	20-Jun-25	11-Jul-25	1	WD(6d)
S13P6a-4050	Backfill to UU formation	3	12-Jul-25	15-Jul-25	6	WD(6d)
S13P6a-5110	Construct Valve Chamber and lay Watermain (CHI 0 - 14)	15	24-Mar-25 A	14-May-25	-114	WD(6d)
S13P6a-5120	Electro Magnetic Flow Meter	5	15-Apr-25 A	30-Apr-25	47	WD(6d)
S13P6a-5130	South Side Footpath - Formation and Sub base Course (CH 210 -230)	6	02-May-25	09-May-25	47	WD(6d)
S13P6a-5132	North Side Footpath - Formation and Sub base Course (CH 215 -265)	18	20-May-25	10-Jun-25	47	WD(6d)
S13P6a-5134	Carriageway - Formation & SRT (CH 215 to 234)	6	02-May-25	09-May-25	47	WD(6d)
S13P6a-5140	Laying Footpath Pavers, Road Binder course & Base course (CH 210 -380)	5	10-May-25	15-May-25	47	WD(6d)
S13P6a-5150	Divert Traffic to New SFK Access (at CH 215 - 220)	0		16-May-25	123	WD(6d)
S13P6a-5160	DCS Works by Others - Stage 3 (Anticipated Commencement Date 16 May 2025) 'To be Confirmed'	61	17-May-25	16-Jul-25	149	CD(7d)
S13P6a-5170	Complete Watermain, Secondary Drainage, UU and Road Works (DCS Stage 3 location)	77	17-Jul-25	16-Oct-25	125	WD(6d)
Portion 1c in Area N (Soil Treatment, Drainage & Roadwork)						
S13P1c-0004	Late completion for the EMSD's District Cooling System (DCS) works in road D3 at Portion 1c (CNE 143)	0		25-Apr-25	69	CD(7d)
Preparation work/Tree Survey/Site Clearance/GI						
S13P1c-0102	Potential Changes of the Scope of Noise Barriers (AECOM EWN PM-003)	0		25-Apr-25	69	CD(7d)
S13P1c-1000	Potential Late Access to and Use of the Site (Portions 1c & 9a) (EWN 49) (CNE 058) (CE 175)	0		25-Apr-25	330	CD(7d)
Civil Work						
S13P1c-3000	Construct & maintain Temporary drainage	99	25-Apr-25	22-Aug-25	97	WD(6d)
S13P1c-3010.08	Pressure test for watermains	0	25-Mar-25 A	27-Mar-25 A		CD(7d)
S13P1c-3010.10	Laying Underground Utilities North Footpath (CLP, Towngas, HKT - 28 Mar 2025) & Road lighting	24	29-Apr-25	28-May-25	97	WD(6d)
S13P1c-3020	Roadwork (1500m2)	72	29-May-25	22-Aug-25	97	WD(6d)
S13P1c-3022	Road Works - Irrigation System Installation - East bound Footpath	42	05-Jul-25	22-Aug-25	104	WD(6d)
S13P1c-5000.10	Backfill and Construct Underground Secondary Drainage M2.28 to M2.28a (0 / 2 MH Complete)	18	25-Mar-25 A	17-May-25	106	WD(6d)
S13P1c-5070	North Foothpath - Formation and SRT (CH325 to 390)	0	01-Apr-25 A	15-Apr-25 A		WD(6d)
S13P1c-5080	South Foothpath - Formation and SRT (CH320 to 394)	5	28-Feb-25 A	30-Apr-25	119	WD(6d)
S13P1c-5090	Carriageway - Formation and SRT (CH273 to 300)	0	03-Mar-25 A	10-Apr-25 A		WD(6d)
Portion 9a in Area N (Soil Treatment, Noise Barrier, Drainage & Roadwork)						
S13P9a-0100	Potential Changes of the Scope of Noise Barriers (AECOM EWN PM-003)	0		25-Apr-25	136	CD(7d)
Civil Work						



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ND/2019/01 - 3 Month Rolling Programme (2025-04)

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REVISED PROGRAMME (2025-04)			
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Activity ID	Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar
S13P9a-3000	Construct & maintain Temporary drainage	155	25-Apr-25	30-Oct-25	53	WD(6d)
S13P9a-3010.02	Backfill and Construct Underground Secondary Drainage (3 / 4 MH Complete)	9	07-Apr-25 A	07-May-25	85	WD(6d)
S13P9a-3010.12	Backfill to UU formation level	18	08-May-25	28-May-25	85	WD(6d)
S13P9a-3030	Roadwork (370m2)	72	05-Jul-25	26-Sep-25	55	WD(6d)
S13P9a-3086.00	Additional Noise barrier NB04 - Fabrication, Factory Testing & Delivery of Steel Frame & Panels	49	25-Mar-25 A	24-Jun-25	121	WD(6d)
S13P9a-3102.00	Additional Noise barrier NB55 - Fabrication, Factory Testing & Delivery of Steel Frame & Panels	49	25-Mar-25 A	24-Jun-25	121	WD(6d)
S13P9a-3108	Pressure test for watermains	2	01-Apr-25 A	26-Apr-25	69	CD(7d)
S13P9a-3110	Laying Underground Utilities (Handover to CLP, Towngas, HKT - 9 Apr 2025)	57	25-Apr-25	04-Jul-25	55	WD(6d)
S13P9a-3120	Construct SMH CKT 1203 & FMH KT 1.08B (CE 320)	15	20-Jan-25 A	14-May-25	85	WD(6d)
S13P9a-3130	Carriageway - Formation & SRT (CH 234 to 273)	5	03-Mar-25 A	30-Apr-25	53	WD(6d)
Section 14						
Portion 7 in Area P (Soil Treatment & KD3 - Tree Felling, General Site Clearance)						
KD3 - Tree felling, general site clearance (including the berm removal / levelling and general site						
Soil Treatment						
S14P7P-2040	Handover Area P back to JV	0		25-Apr-25*	252	WD(6d)
Portion 7 in Area S3 (Soil Treatment & Operation of HAC Soil Treatment Plant)						
Operation and Dismantling of the Soil Treatment Plant						
S14P7S3-3010	Stock Pile of Treated Soil	210	20-Nov-20 A	06-Jan-26	42	WD(6d)
Portion 7 in Area T1, T2, T3 (Soil Treatment & Temp. Noise Barrier along Castle Peak Road)						
Preparation work/Tree Survey/Site Clearance/GI						
S14P7T-1012	Ground investigation (0 / 1 GI completed) (Area T1)	30	03-Jun-25	08-Jul-25	192	WD(6d)
S14P7T-1020	Site clearance (Area T1)	30	25-Apr-25	02-Jun-25	192	WD(6d)
S14P7T-1024	Tree felling works (Area T1)	30	25-Apr-25	02-Jun-25	192	WD(6d)
Portion 1b in Area S2 (Soil Treatment)						
Soil Treatment						
S14P1b-2060	DCS Works by Others 'Date and Duration To be Confirmed'	90	25-Apr-25	23-Jul-25	219	CD(7d)
Portion 1c & 9a in Area S2 (Soil Treatment)						
Preparation work/Tree Survey/Site Clearance/GI						
S14P1c-1000	Potential Late Access to and Use of the Site (Portions 1c & 9a) (EWN 49) (CNE 058) (CE 175)	0		25-Apr-25	-75	CD(7d)
Portion 6a in Area S2 (Soil Treatment)						
Soil Treatment						
S14P6a-2000	Construct & maintain Temporary drainage	72	25-Apr-25	22-Jul-25	180	WD(6d)
S14P6a-2010	Remove soil (original assumed 126m3) (1 / 1 EGI completed, interim soil to be excavated / treated : 0m3 /0m3) Clean Soil	24	25-Apr-25	24-May-25	-84	WD(6d)
S14P6a-2020	Backfilling to the formation levels	48	26-May-25	22-Jul-25	180	WD(6d)
Portion 6b in Area S2 (Soil Treatment)						
Soil Treatment						
S14P6b-2000	Construct & maintain Temporary drainage	132	25-Apr-25	30-Sep-25	120	WD(6d)
S14P6b-2010	Remove soil (original assumed 2472m3) (3 / 3 EGI complete, interim soil to be excavted / treated : 0m3 / 0m3) Clean Soil	24	25-Apr-25	24-May-25	-84	WD(6d)
S14P6b-2020	Backfilling to the formation levels	48	26-May-25	22-Jul-25	120	WD(6d)
S14P6b-2100	Existing Feature 2SE-B/FR75 Existing Loose Fill to be Replaced by Compact Fill	48	23-Jul-25	16-Sep-25	120	WD(6d)
Portion 1f in Area R (Soil Treatment & Construction of Interim CLC)						
Soil Treatment						
S14P1f-3000	Construct & maintain Temporary drainage	162	25-Apr-25	07-Nov-25	21	WD(6d)
S14P1f-3010	Remove soil (original assumed 2566m3) (2 / 2 EGI completed, interim soil to be excavated / treated : 0m3 / 0m3) (Clean)	24	25-Apr-25	24-May-25	-84	WD(6d)
S14P1f-3020	Backfilling to the formation levels	48	26-May-25	22-Jul-25	21	WD(6d)

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REVISED PROGRAMME (2025-04)			
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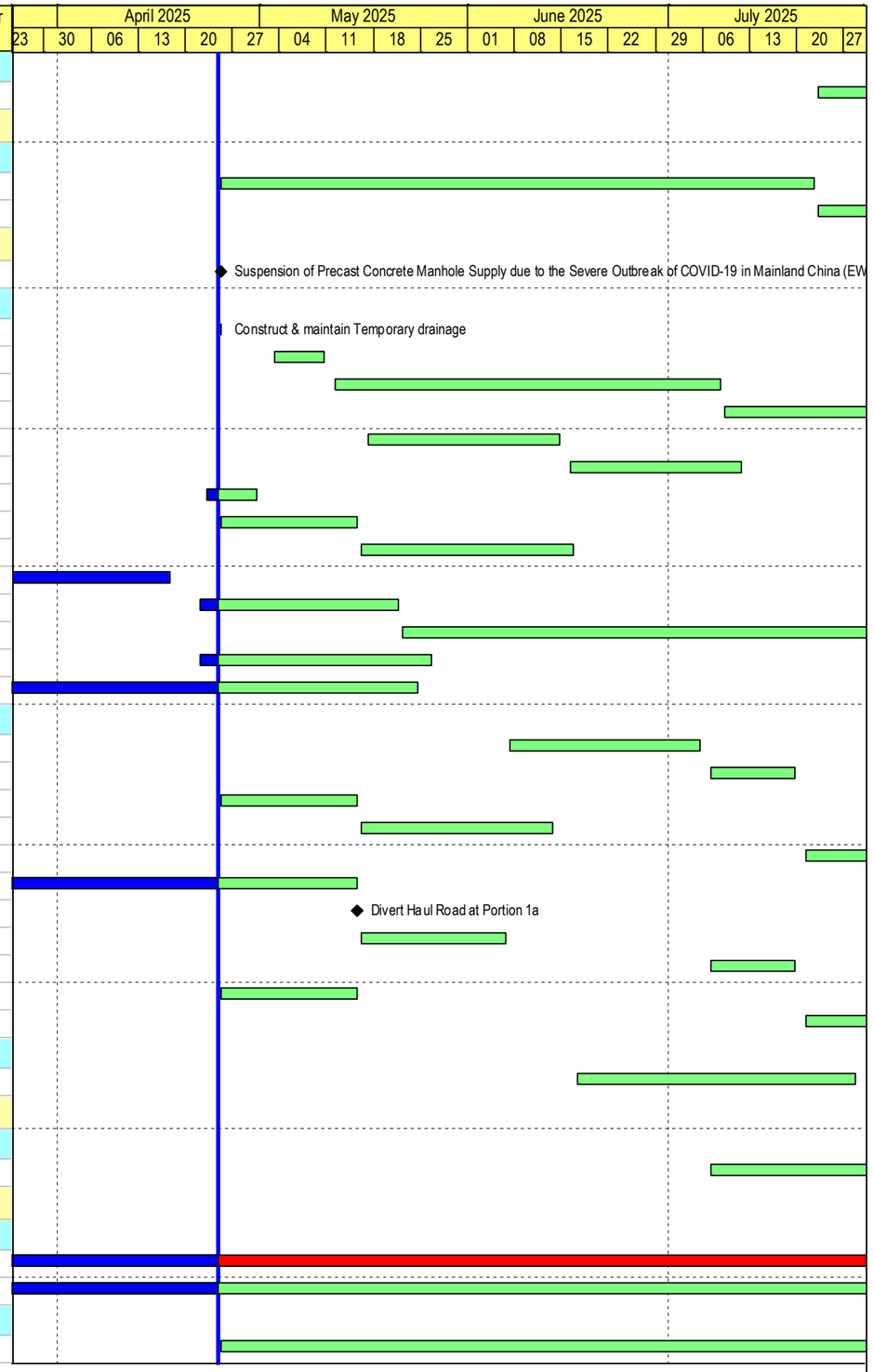
Activity ID	Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar
Civil Works						
S14P1f-4010	Roadwork (1470m2) (to be deleted)	90	23-Jul-25	07-Nov-25	21	WD(6d)
Portion 9c in Area S1 (Soil Treatment)						
Soil Treatment						
S14P9c-2030	Existing Feature 2SE-B/FR72 Existing Loose Fill to be Replaced by Compact Fill	72	25-Apr-25	22-Jul-25	168	WD(6d)
S14P9c-2040	Existing Feature 2SE-B/FR72 Existing Loose Fill to be Replaced by Compact Fill - Hydroseeding	12	23-Jul-25	05-Aug-25	168	WD(6d)
Cycle Track from Area H to Area N						
S14CT-0100	Suspension of Precast Concrete Manhole Supply due to the Severe Outbreak of COVID-19 in Mainland China (EWN 060)	0		25-Apr-25	31	CD(7d)
Underground Utilities underneath Cycle Track						
S14CT-1000	Construct & maintain Temporary drainage	0	25-Apr-25	25-Apr-25	567	WD(6d)
S14CT-1010.09	Road D1 Junction - Remove Haul Road at Portion 7	6	03-May-25	10-May-25	18	WD(6d)
S14CT-1010.10	Road D1 Junction - Excavate and Laying remaining Swerage Pipe between FMH KT1.17 to KT1.18	48	12-May-25	08-Jul-25	18	WD(6d)
S14CT-1010.20	Road D1 Junction - Backfill and Laying Underground Watermain in Portion 7 Flushing (CHU) & Fresh (CHK 400 - 412)	48	09-Jul-25	02-Sep-25	18	WD(6d)
S14CT-1029	Foramation & SRT / Smart Lighting Portion 7	24	17-May-25	14-Jun-25	117	WD(6d)
S14CT-1029.0	Laying Underground Utilities by Others (CLP & HKT) in Portion 7 (28 Apr 2025)	22	16-Jun-25	11-Jul-25	117	WD(6d)
S14CT-1090	Pressure test for Fresh & Flushing watermains Portion 5, 7 & 9a	5	23-Apr-25 A	30-Apr-25	87	WD(6d)
S14CT-1092	Foramation & SRT / Smart Lighting Portion 5 South	16	25-Apr-25 A	15-May-25	92	WD(6d)
S14CT-1100	Laying Underground Utilities by Others (CLP & HKT) in Portion 5 South (12 May 2025)	26	16-May-25	16-Jun-25	138	WD(6d)
S14CT-1160	Fix Watermain Defects (at 2 locations on Cycle Track) Portion 9a & 5 North	0	25-Mar-25 A	17-Apr-25 A		WD(6d)
S14CT-1172	Foramation & SRT / Smart Lighting Portion 9a & 5 North	16	22-Apr-25 A	21-May-25	87	WD(6d)
S14CT-1180	Laying Underground Utilities by Others (CLP & HKT) in Portions 9a & 5 North (Reassign 2 Apr 2025)	87	22-May-25	16-Aug-25	104	CD(7d)
S14CT-3000	Construct Remaining Catch Pit for Drainage (2 / 9 complete)	25	22-Apr-25 A	26-May-25	134	WD(6d)
S14CT-3010	Handover to DCS for Part E2 Remaining Works near CHU 212 - 220 (Commencement Date Mar-2025) To be Confirmed	30	03-Mar-25 A	24-May-25	188	CD(7d)
Underground Utilities underneath Cycle Track (within MTRC Protection Zone)						
S14CT-1020.00	Construct Underground Sewerage FMH KT1.16 at Portion 1a (0 / 1 Complete) & Backfill	24	07-Jun-25	05-Jul-25	50	WD(6d)
S14CT-1020.02	Laying Underground Watermain in Portion 1a	12	07-Jul-25	19-Jul-25	485	WD(6d)
S14CT-1020.04	Foramation & SRT / Smart Lighting Portion 1a	16	25-Apr-25 A	15-May-25	92	WD(6d)
S14CT-1020.06	Laying Underground Utilities by Others (CLP & HKT) Portions 1a (12 May 2025)	24	16-May-25	13-Jun-25	170	WD(6d)
S14CT-1022	Construct Underground Drainge Catch Pit (0 / 1 complete)	12	21-Jul-25	02-Aug-25	485	WD(6d)
S14CT-1072	Remove Sheet Piles and Backfill	16	17-Feb-25 A	15-May-25	50	WD(6d)
S14CT-1074	Divert Haul Road at Portion 1a	0		15-May-25	50	WD(6d)
S14CT-1076	Laying Drainge Pipe SMH KT 3007 connection (Approx 20m)	18	16-May-25	06-Jun-25	50	WD(6d)
S14CT-1080	Laying Underground Watermain in Portion 5	12	07-Jul-25	19-Jul-25	109	WD(6d)
S14CT-1084	Foramation & SRT / Smart Lighting Portion 5	16	25-Apr-25 A	15-May-25	92	WD(6d)
S14CT-1140	Laying Underground Utilities by Others (CLP & HKT) Portions 5 (12 May 2025)	26	21-Jul-25	19-Aug-25	109	WD(6d)
Construction of Cycle Track						
S14CT-2030	Lay Bitumen Paving for Cycle Track in Portion 5 (Stage 1) (CE 542)	35	17-Jun-25	28-Jul-25	168	WD(6d)
Portion 1b Open Area (Soil Treatment & Civil Works)						
Civil Works						
S14P1b-1316.0	Laying Underground Watermain CHX and CHL (CH 200 to 217) at Intersection with Cycle Track	24	07-Jul-25	02-Aug-25	50	WD(6d)
Portion 3 Open Area (Soil Treatment & Civil Works)						
Soil Treatment						
S14P3-1202	Remove soil (original assumed 4061m3) (2 / 2 EGI completed, interim soil to be excavated / treated : 16200m3 / 7200m3)	166	02-Dec-24 A	12-Nov-25	-226	WD(6d)
S14P3-1204	Backfilling to the formation levels (MTR Zone)	176	13-Dec-24 A	24-Nov-25	76	WD(6d)
Civil Works						
S14P3-1200	Construct & maintain Temporary drainage	176	25-Apr-25	24-Nov-25	76	WD(6d)



Build King – Richwell Engineering Joint Venture

- Planned Work
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- Milestone Critical
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- Summary LOE Critical

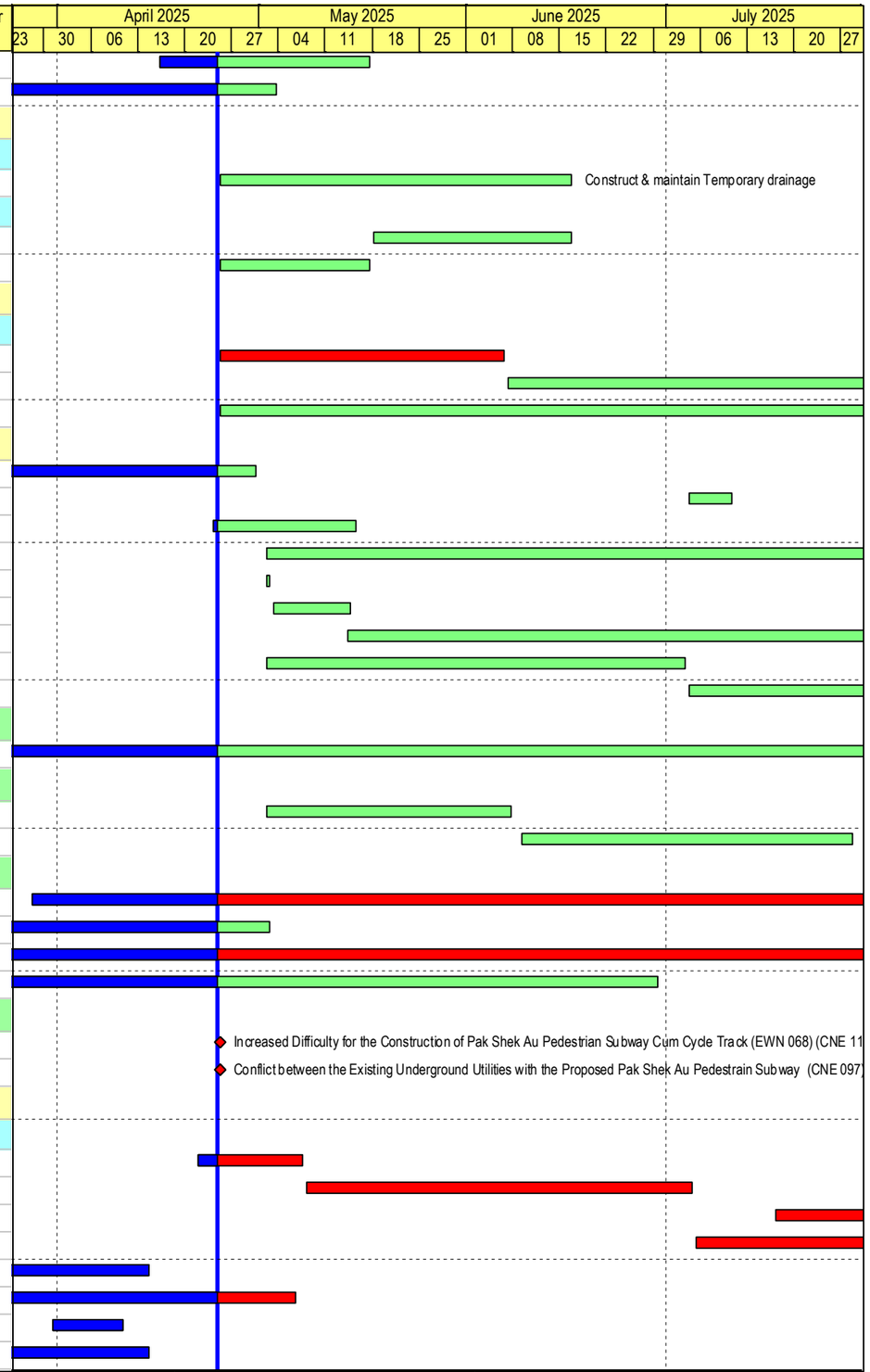
ND/2019/01 - 3 Month Rolling Programme (2025-04)

Data Date: 25-Apr-25 Run Date: 30-Apr-2025

Project ID: ND201901-RP 62
Lauyout: ND201901-3MRP with logo

REVISED PROGRAMME (2025-04)			
Date	Revision	Checked	Approved
30-Apr-25	Rev.0	SC	BY

Activity ID	Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar
S14P3-1302	Pressure test for Fresh & Flushing watermains	16	16-Apr-25 A	17-May-25	286	CD(7d)
S14P3-4000	DCS Works by Others (Agreed Return Date 19 Jun 2024) 'Return Delayed' (CNE 206)	9	19-Feb-24 A	03-May-25	258	CD(7d)
Portion 5 Open Area (Soil Treatment & Civil Works)						
Soil Treatment						
S14P5-1190	Construct & maintain Temporary drainage	42	25-Apr-25	16-Jun-25	210	WD(6d)
Civil Works						
S14P5-1304	Pressure test for Fresh & Flushing watermains	30	18-May-25	16-Jun-25	256	CD(7d)
S14P5-1306	Remaining Underground Fresh & Flushing watermains	18	25-Apr-25	17-May-25	211	WD(6d)
Portion 1e (Soil Treatment)						
Soil Treatment						
S14P1e-2070	Remove soil (original assumed 860m3) (1 / 1 EGI completed, interim soil to be excavated / treated : 0m3 / 0m3) Clean	34	25-Apr-25	06-Jun-25	-94	WD(6d)
S14P1e-2080	Backfilling to the formation levels	90	07-Jun-25	20-Sep-25	128	WD(6d)
S14P1e-3000	Construct & maintain Temporary drainage	124	25-Apr-25	20-Sep-25	128	WD(6d)
Ha Wong Yi Au Tai Po (CE 306, 396)						
TPHW-1120	XP Application (1, 2 & 3) (PMI 372) (CE 396) (EWN 102)	6	19-Feb-24 A	30-Apr-25	442	CD(7d)
TPHW-1332	Excavation for Hammer head PMI 372) (CE 396)	6	04-Jul-25	10-Jul-25	388	WD(6d)
TPHW-1334	Toe Channel Construction for Retaining Wall	16	24-Apr-25 A	15-May-25	428	WD(6d)
TPHW-1510	Trench Excavation & Laying Salt water main (South side Footpath TTA Stages 5 to 12) (PMI 372) (CE 396) (EWN 102, 114)	101	02-May-25	30-Aug-25	392	WD(6d)
TPHW-1600	TTA Implementation (Stage 13 - Yung Yi Road) (PMI 372) (CE 396) (EWN 102, 114)	1	02-May-25	02-May-25	433	WD(6d)
TPHW-1610	Trial Trench for Exposing the Existing Watermain (PMI 372) (CE 396) (EWN 102, 114)	9	03-May-25	14-May-25	433	WD(6d)
TPHW-1620	Pending for Watermain Connection (Temp Deck over) (PMI 372) (CE 396) (EWN 102, 114)	102	14-May-25	11-Sep-25	433	WD(6d)
TPHW-1650	UU by others (CLP, Town Gas, Telecom) (PMI 372) (CE 396) (EWN 102, 114)	51	02-May-25	03-Jul-25	358	WD(6d)
TPHW-1660	South bound Carriageway (PMI 372) (CE 396) (EWN 102, 114)	36	04-Jul-25	14-Aug-25	358	WD(6d)
Section 15						
S15-1000	Presevation and protection of tree	257	06-Dec-19 A	06-Jan-26	73	CD(7d)
Section 16						
S16-2000	Landscape Works Road D1 and Road L1 - Soiling Works	30	02-May-25	07-Jun-25	193	WD(6d)
S16-2010	Landscape Works Road D1 and Road L1 - Planting Works	42	09-Jun-25	28-Jul-25	193	WD(6d)
Section 18 (Subject to excision)						
S18-1000	Watermain laying work in Portion 2	107	28-Mar-25 A	01-Sep-25	-21	WD(6d)
S18-1050	Watermain laying work in Portion 6a & 6b	6	18-Jul-22 A	02-May-25	80	WD(6d)
S18-1070	Watermain laying work in Portion 9b	132	03-Nov-22 A	13-Oct-25	-55	WD(6d)
S18-1075	Watermain laying work in Portion 8a	66	30-Jan-24 A	29-Jun-25	39	CD(7d)
Section 20 (Subject to excision)						
S20-1022	Increased Difficulty for the Construction of Pak Shek Au Pedestrian Subway Cum Cycle Track (EWN 068) (CNE 116, CE 521)	0		25-Apr-25	-239	CD(7d)
S20-1026	Conflict between the Existing Underground Utilities with the Proposed Pak Shek Au Pedestrain Subway (CNE 097) (CE286)	0		25-Apr-25	-233	CD(7d)
Construction of Pedestrian Subway cum Cycle Track						
Civil and Structural Works						
S20S2-5022	Aluminium Roof - Take As-Built	9	22-Apr-25 A	07-May-25	-179	WD(6d)
S20S2-5030	Aluminium Roof - Fabrication & Delivery	48	08-May-25	04-Jul-25	-179	WD(6d)
S20S2-5040	Aluminium Roof - Installation (Bay 1 - 3)	66	17-Jul-25	02-Oct-25	-189	WD(6d)
S20S2-5060	Aluminium Roof - Installation (Bay 16)	51	05-Jul-25	02-Sep-25	-150	WD(6d)
S20S2-7520.20	Bay No. 12 - Waterproofing Membrane & 120mm Brick Work To walls	0	21-Feb-25 A	14-Apr-25 A		WD(6d)
S20S2-7850.40	Bay No. 15 & 16 - Remove Strut/ Backfill / Waterproofing Membrane & No Fines (Stage 2 of 2)	8	10-Mar-25 A	06-May-25	-180	WD(6d)
S20S2-7860.20	Bay No. 15 - Waterproofing Membrane & 50mm Screeding To Roof Slab	0	31-Mar-25 A	10-Apr-25 A		WD(6d)
S20S2-9020	Backfilling to formation level & Remove Strut for Subway in Portion 2 (CE 521)	0	28-Oct-24 A	14-Apr-25 A		WD(6d)



Build King – Richwell Engineering Joint Venture

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ND/2019/01 - 3 Month Rolling Programme (2025-04)

Data Date: 25-Apr-25 Run Date: 30-Apr-2025

Project ID: ND201901-RP 62
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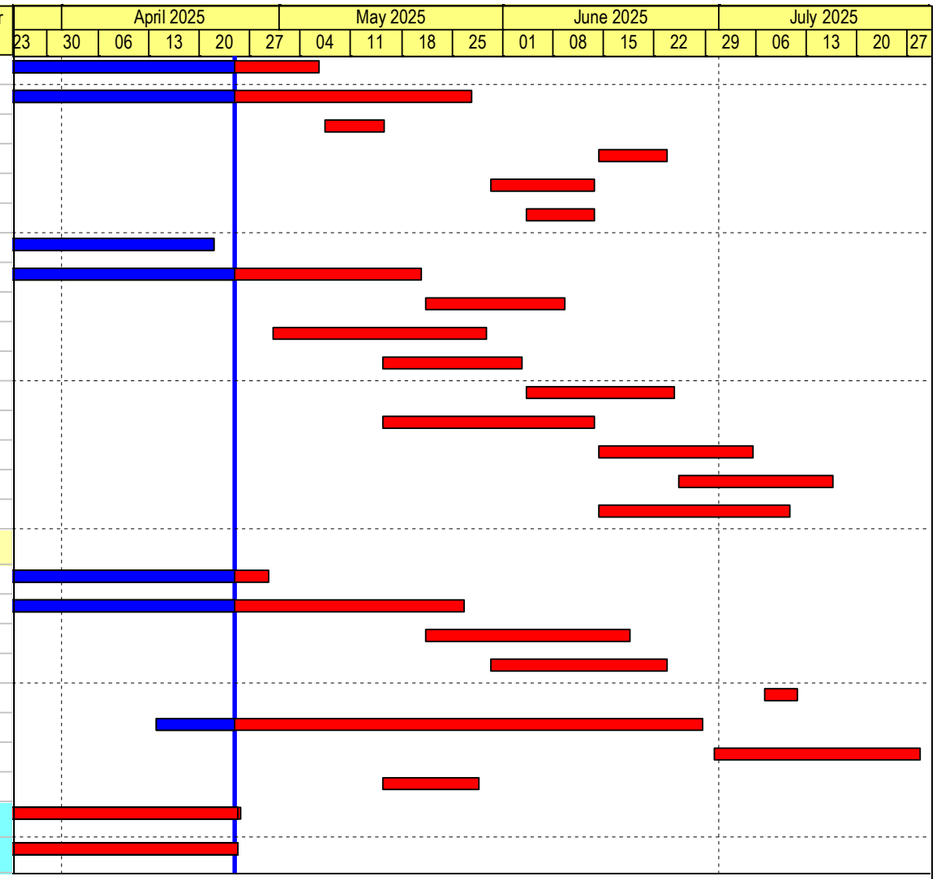
REVISED PROGRAMME (2025-04)			
Date	Revision	Checked	Approved
30-Apr-25	Rev.0	SC	BY

Activity ID	Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar
S20S2-9030	Extraction of Sheet pile for Subway in Portion 1a	8	26-Feb-25 A	06-May-25	-165	WD(6d)
S20S2-9040	Extraction of Sheet pile for Subway in Portion 2	18	26-Feb-25 A	27-May-25	-124	WD(6d)
S20S2-9050	Remove Debries (inside Bay 1 - 4)	8	07-May-25	15-May-25	-165	WD(6d)
S20S2-9150	Footpath & Cycle Track Construction (Bay 1 - 4)	8	14-Jun-25	23-Jun-25	-189	WD(6d)
S20S2-9160	Footpath & Cycle Track Construction (Bay 5 - 13)	12	30-May-25	13-Jun-25	-189	WD(6d)
S20S2-9170	Footpath & Cycle Track Construction (Bay 14 - 16)	9	04-Jun-25	13-Jun-25	-123	WD(6d)
S20S2-9180	Finishing Footpath and Cycle Track - Tile, Paint, Footpath Tile Approval	0	28-Jan-25 A	22-Apr-25 A		WD(6d)
S20S2-9190	Finishing Footpath and Cycle Track - Tile, Paint, Footpath Tile Procurement	20	28-Jan-25 A	20-May-25	-189	WD(6d)
S20S2-9200	Finishing Footpath and Cycle Track (Bays 1 to 4)	16	21-May-25	09-Jun-25	-185	WD(6d)
S20S2-9210	Finishing Footpath and Cycle Track (Bays 5 to 13)	24	30-Apr-25	29-May-25	-189	WD(6d)
S20S2-9220	Finishing Footpath and Cycle Track (Bays 14 to 16)	16	15-May-25	03-Jun-25	-123	WD(6d)
S20S2-9230	Install lighting and E&M (Bays 1 to 4)	18	04-Jun-25	24-Jun-25	-189	WD(6d)
S20S2-9240	Install lighting and E&M (Bays 5 to 13)	25	15-May-25	13-Jun-25	-170	WD(6d)
S20S2-9250	Install lighting and E&M (Bays 14 to 16)	18	14-Jun-25	05-Jul-25	-123	WD(6d)
S20S2-9260	Install Cladding for lighting (Bays 1 to 4)	18	25-Jun-25	16-Jul-25	-189	WD(6d)
S20S2-9270	Install Cladding for lighting (Bays 5 to 13)	22	14-Jun-25	10-Jul-25	-170	WD(6d)
E&M, Lift Installation and Finishing Work for Pedestrian Subway Lift Tower						
S20ELF-1030	Procurement of Lighting, E&M equipment	5	26-Feb-24 A	29-Apr-25	-145	CD(7d)
S20ELF-1040	Supply, Factory Acceptance Test (FAT) & Delivery of Lighting, E&M equipment	25	08-Aug-24 A	26-May-25	-135	WD(6d)
S20ELF-1070	Finishing Works - Tile and Painting	24	21-May-25	18-Jun-25	-159	WD(6d)
S20ELF-1090	Pillar Box - Construct & Install Fixing Inside	20	30-May-25	23-Jun-25	-113	WD(6d)
S20ELF-1100	Pillar Box - Telecom & CLP connection and Engerization	5	07-Jul-25	11-Jul-25	-123	WD(6d)
S20ELF-1120	Glazing and Louvre - Fabrication & Delivery	53	14-Apr-25 A	28-Jun-25	-192	WD(6d)
S20ELF-1130	Glazing and Louvre - Installation	24	30-Jun-25	28-Jul-25	-192	WD(6d)
S20ELF-1140	Lift Tower - Installation of Structural Steel	12	15-May-25	28-May-25	-166	WD(6d)
8.0 - PMI / CE						
9.0 - Major EWN / CNE						



Build King – Richwell Engineering Joint Venture

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ND/2019/01 - 3 Month Rolling Programme (2025-04)

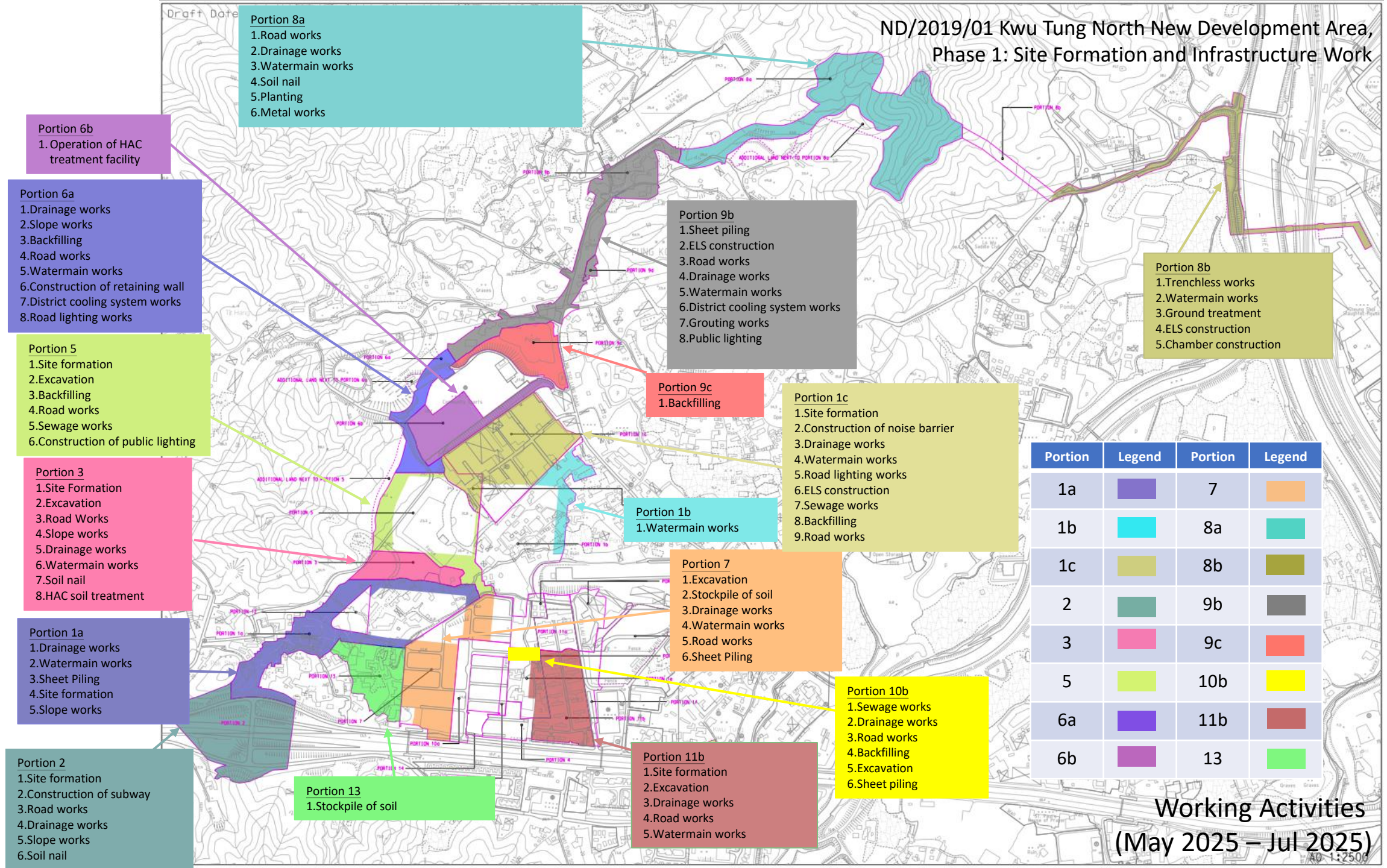
Data Date: 25-Apr-25 Run Date: 30-Apr-2025

Project ID: ND201901-RP 62
Lauyout: ND201901-3MRP with logo

REVISED PROGRAMME (2025-04)

Date	Revision	Checked	Approved
30-Apr-25	Rev. 0	SC	BY

ND/2019/01 Kwu Tung North New Development Area, Phase 1: Site Formation and Infrastructure Work



Portion	Legend	Portion	Legend
1a		7	
1b		8a	
1c		8b	
2		9b	
3		9c	
5		10b	
6a		11b	
6b		13	

Construction Programme of ND/2019/02

CEDD 土木工程拓展署 Civil Engineering and Development Department

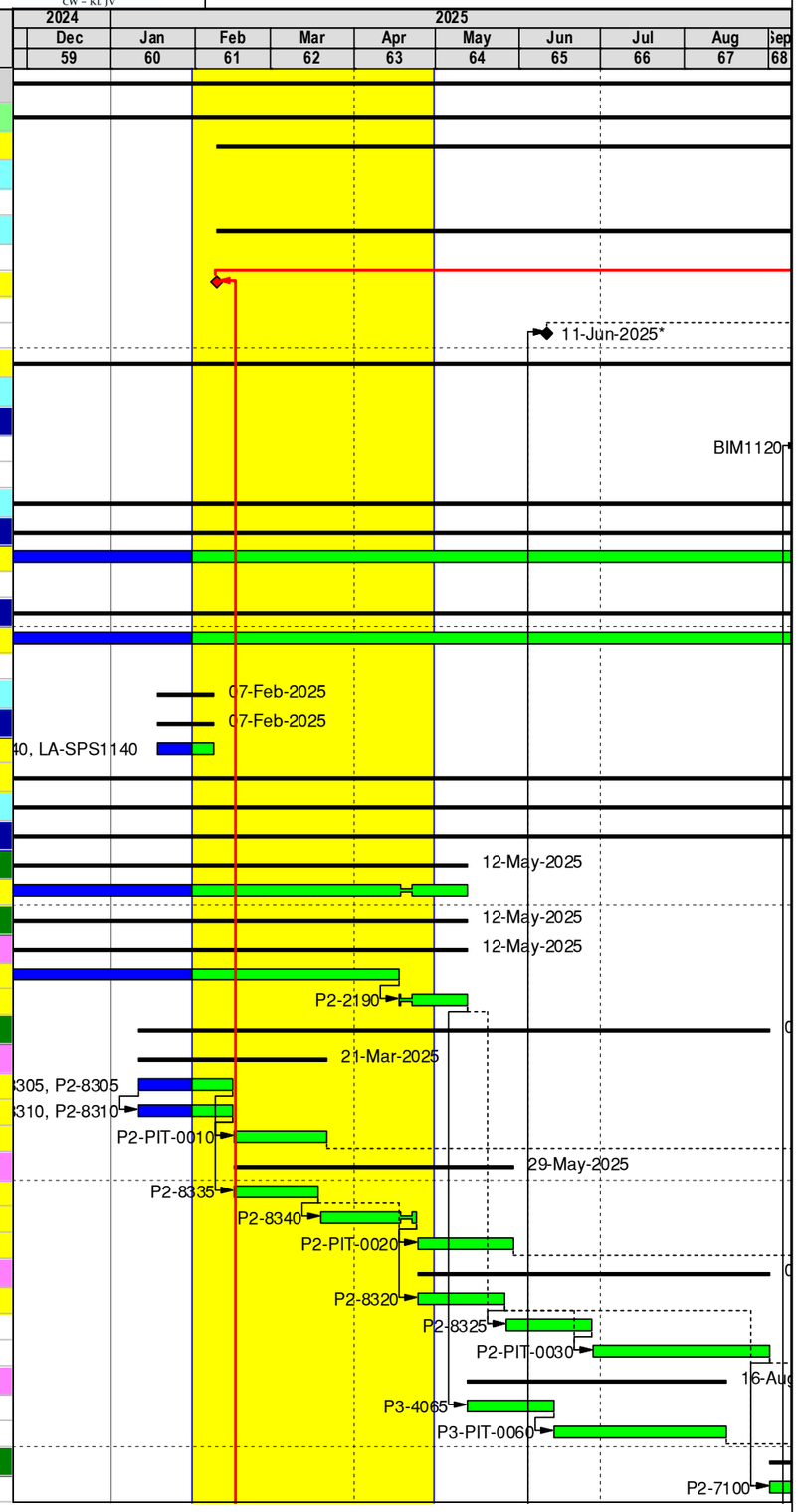
ND/2019/02 - Kwu Tung North New Development Area Phase 1: Roads & Drains between Kwu Tong North New Development Area and Shek Wu Hui

AECOM

俊和－群利聯營體 CW – KL JV

Monthly Programme Update (Jan 2025) as at 31-Jan-2025

#	Activity ID	Activity Name	Original Duration	TRA	Start	Finish	Total Float	Duration % Complete
1	**Monthly Programme Update (Jan 2025)**		2240		14-Apr-2020 A	14-Mar-2026	0	83.51%
2	**Programme Data**		2240		14-Apr-2020 A	14-Mar-2026	0	83.51%
3	**planned Completion**		362		08-Feb-2025	14-Mar-2026	-5	0%
4	**The Whole of the Works**		0		14-Mar-2026	14-Mar-2026	-4	0%
5	PD1020	Completion date for the whole of the works (1773 days after starting date) (25 Dec 24)	0	0		14-Mar-2026*	-4	0%
6	**Sectional Completion**		362		08-Feb-2025	14-Mar-2026	-5	0%
7	PD1050	Section 2 - Works in P2,3,4,5,6 & 7	0	0		14-Mar-2026*	-5	0%
8	PD1060	Section 3 - Works P8 & P9	0	0		08-Feb-2025*	-340	0%
9	PD1070	Section 4 - Works in P10	0	0		22-Sep-2025*	182	0%
10	PD1090	Section 5 - Works in P11	0	0		11-Jun-2025*	35	0%
11	**Preliminaries**		2083		30-Sep-2020 A	24-Dec-2025	69	85.6%
12	**BIM Submission**		33		13-Sep-2025	21-Oct-2025	130	0%
13	**3. Sewerage Pumping Station**		33		13-Sep-2025	21-Oct-2025	130	0%
14	BIM1120	Preparation and Submission of BIM Model for updating CSD and CBWD	27		13-Sep-2025	14-Oct-2025	130	0%
15	BIM1130	Submission of Fully Coordinated BIM Model (As-built)	0			21-Oct-2025	130	0%
16	**Site Offices & Preliminaries**		2568		30-Sep-2020 A	24-Dec-2025	88	85.81%
17	**Temporary office for RE**		2124		30-Sep-2020 A	24-Dec-2025	88	82.85%
18	SP-1000b	Maintenance of WA2 container office until removal	1324	0	30-Sep-2020 A	24-Dec-2025	88	72.48%
19	SP-1000c	Removal of container office in WA2	8	0	18-Dec-2025	24-Dec-2025*	88	0%
20	**Temporary office for Contractor**		1502		17-May-2023 A	24-Dec-2025	88	75.74%
21	SP-1010b	Maintenance of WA1 container office until removal (aligned with Section 4A completion	1502	0	17-May-2023 A	24-Dec-2025	88	75.74%
22	SP-1010c	Removal of container office in WA1 (aligned with Section 4A completion date)	7	0	19-Dec-2025	24-Dec-2025	88	0%
23	**Landscape Works Submission**		17		18-Jan-2025 A	07-Feb-2025	363	60.4%
24	**Landscape Method Statement Submission (Section 4A)**		17		18-Jan-2025 A	07-Feb-2025	363	60.4%
25	LA-SPS1140	Method Statement of Establishment Works - 2nd submission to PM & approval	17	0	18-Jan-2025 A	07-Feb-2025	363	60.4%
26	**Works**		1950		14-Apr-2020 A	14-Mar-2026	0	81.06%
27	**Works in Section 2**		1950		14-Apr-2020 A	14-Mar-2026	0	81.06%
28	**Portion 2 - Road & Drains**		1785		03-Aug-2020 A	02-Jan-2026	65	82.93%
29	**Pre-construction works**		1564		03-Aug-2020 A	12-May-2025	279	94.25%
30	P2-1070	Tree Protection and Preservation	1564	4	03-Aug-2020 A	12-May-2025	279	94.25%
31	**Pipe Jacking**		200		16-Sep-2024 A	12-May-2025	73	55.12%
32	**(KT6004A to KT6005A) (IL : 5.9mPD) 2100mm dia**		200		16-Sep-2024 A	12-May-2025	73	55.12%
33	P2-2180	Pipe Jacking from SMH_KT6004A to SMH_KT6005A (598.7m, 3m/day)	178	3	16-Sep-2024 A	17-Apr-2025	73	60.24%
34	P2-2190	Remove TBM (2.1m dia.) from SMH_KT6005A	19	0	17-Apr-2025	12-May-2025	73	0%
35	**Manhole Construction**		210		11-Jan-2025 A	01-Sep-2025	82	7.93%
36	**SMH_KT6003A & FMH_KT1.26A**		63		11-Jan-2025 A	21-Mar-2025	229	26.32%
37	P2-8305	Manhole FMH_KT1.26A construction	30	0	11-Jan-2025 A	14-Feb-2025	60	55.56%
38	P2-8310	Manhole SMH_KT6003A construction (Including 1 day TRA)	30	1	11-Jan-2025 A	14-Feb-2025	60	55.56%
39	P2-PIT-0010	Pit Backfilling and reinstatement of disturb landscape area after manholes 6003A & 1.2	33	1	15-Feb-2025	21-Mar-2025	229	0%
40	**SMH_KT6003B & FMH_KT1.27A**		93		15-Feb-2025	29-May-2025	169	0%
41	P2-8335	Manhole FMH_KT1.27A construction	30	1	15-Feb-2025*	18-Mar-2025	60	0%
42	P2-8340	Manhole SMH_KT6003B construction	30	0	19-Mar-2025*	23-Apr-2025	60	0%
43	P2-PIT-0020	Pit Backfilling and reinstatement of disturb landscape area after manholes 6003B & 1.2	33	15	24-Apr-2025	29-May-2025	169	0%
44	**SMH_KT6004A & FMH_KT1.29A**		120		24-Apr-2025	01-Sep-2025	60	0%
45	P2-8320	Manhole FMH_KT1.29A construction	30	0	24-Apr-2025*	26-May-2025	60	0%
46	P2-8325	Manhole SMH_KT6004A construction	30	1	27-May-2025	27-Jun-2025	60	0%
47	P2-PIT-0030	Pit Backfilling and reinstatement of disturb landscape area after manholes 6004A & 1.2	60		28-Jun-2025	01-Sep-2025	60	0%
48	**SMH_KT6005A & FMH_KT1.33A**		90		12-May-2025	16-Aug-2025	96	0%
49	P3-4065	Manhole SMH_KT6005A construction	30	1	12-May-2025	13-Jun-2025	96	0%
50	P3-PIT-0060	Pit Backfilling and reinstatement of disturb landscape area after manholes 6005A & 1.3	60		13-Jun-2025	16-Aug-2025	96	0%
51	**Utilities Works and Signage**		111		01-Sep-2025	02-Jan-2026	60	0%
52	P2-7100	Installation of Branch Pipe (NS250 PE Pipe) to KT1.29A	22	6	01-Sep-2025	24-Sep-2025	60	0%



Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 31-Jan-2025
Project Start: 03-Feb-2020
Project End: 14-Mar-2026
Baseline: N/A

4M ROLLING PROGRAMME - JAN - APR 2025

Date	Revision	Checked	Approved
03-Feb-2025	0	RP	PH/WW

Filter: TASK filter: DD+4M Lookahead.
Layout: VRA

CEDD 土木工程拓展署 Civil Engineering and Development Department

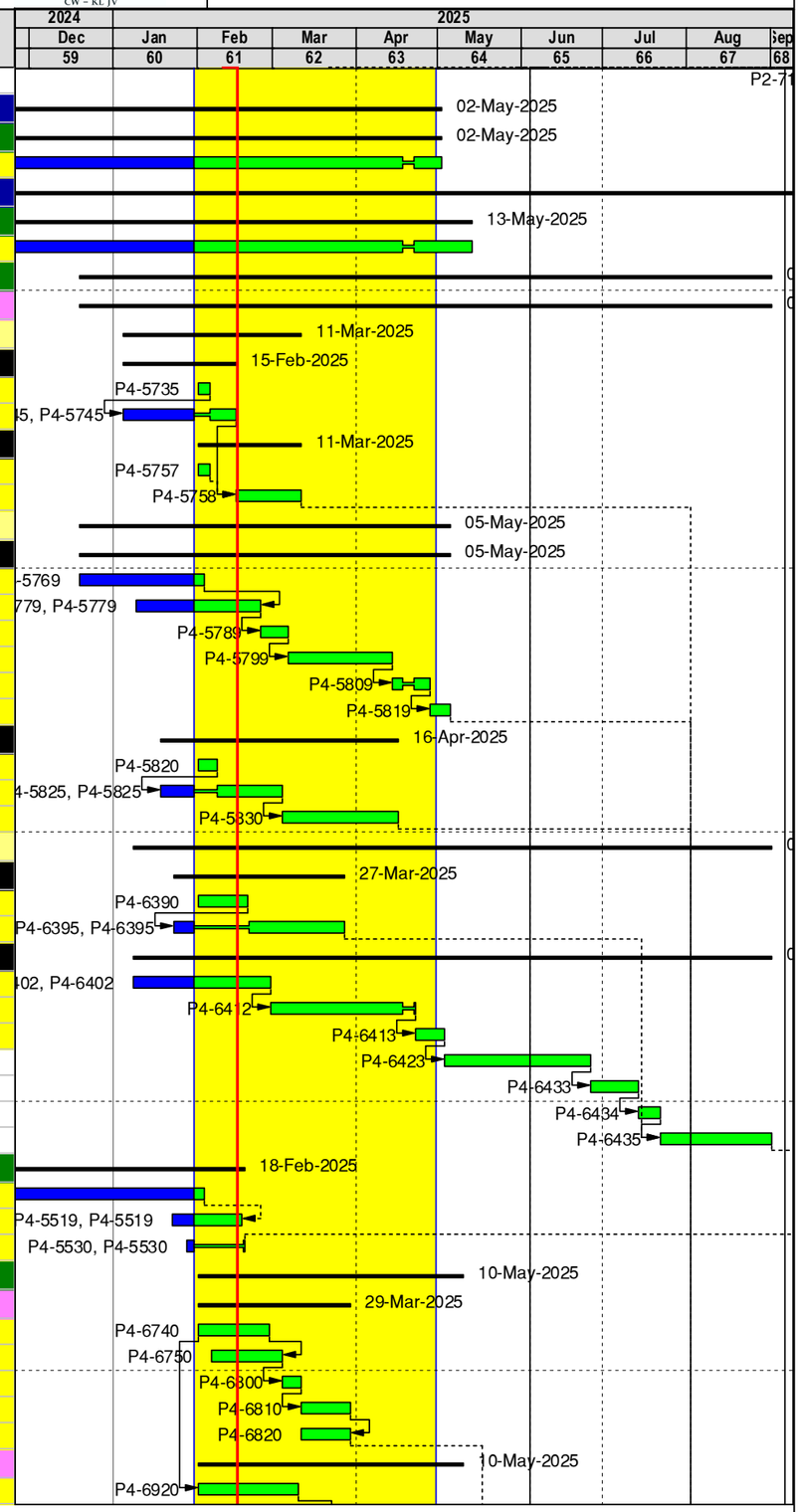
ND/2019/02 - Kwu Tung North New Development Area Phase 1: Roads & Drains between Kwu Tong North New Development Area and Shek Wu Hui

AECOM

俊和－群利聯營體 CW – KL JV

Monthly Programme Update (Jan 2025) as at 31-Jan-2025

#	Activity ID	Activity Name	Original Duration	TRA	Start	Finish	Total Float	Duration % Complete
53	P2-7120	UU (UG 11kV Cable) and signage works	89	14	24-Sep-2025	02-Jan-2026	60	0%
54	**Portion 3 - Road & Drains**		1561		03-Aug-2020 A	02-May-2025	288	94.82%
55	**Pre-construction works**		1561		03-Aug-2020 A	02-May-2025	288	94.82%
56	P3-1060	Tree Protection and Preservation	1561	4	03-Aug-2020 A	02-May-2025	288	94.82%
57	**Portion 4 - Road & Drains**		1705		03-Aug-2020 A	04-Oct-2025	145	86.81%
58	**Pre-construction works**		1564		03-Aug-2020 A	13-May-2025	278	94.18%
59	P4-1050	Tree Protection and Preservation	1564	4	03-Aug-2020 A	13-May-2025	278	94.18%
60	**Rising Main Installation by Open Cut (CHB 50 to 493 & CHB515 to 974)**		229		19-Dec-2024 A	01-Sep-2025	62	15.25%
61	**Gang 4**		229		19-Dec-2024 A	01-Sep-2025	62	15.25%
62	**Rising Main CHB700 to CHB750 (50M) Gang 4-3**		58		04-Jan-2025 A	11-Mar-2025	169	38.59%
63	**CHB700-CHB720 (20M)**		32		04-Jan-2025 A	15-Feb-2025	169	57.44%
64	P4-5735	Bedding and Pipe Laying (Twins DN700)	4		01-Feb-2025*	05-Feb-2025	169	0%
65	P4-5745	RC Works Inspection Chamber and Air Valve Chamber at CHB700	32		04-Jan-2025 A	15-Feb-2025	169	70.24%
66	**CHB720-CHB750 (30M)**		36		01-Feb-2025	11-Mar-2025	169	0%
67	P4-5757	Bedding and Pipe Laying (Twins DN700)	4		01-Feb-2025*	05-Feb-2025	178	0%
68	P4-5758	Backfilling of drain to at grade level from CHB700 to CHB750 (50m)	22		15-Feb-2025	11-Mar-2025	169	0%
69	**Rising Main CHB750 to CHB867 (118M) Gang 4-4**		118		19-Dec-2024 A	05-May-2025	122	29.66%
70	**CHB750-CHB810 (60M)**		118		19-Dec-2024 A	05-May-2025	122	29.66%
71	P4-5769	Soft Excavation to 1st strut level	37		19-Dec-2024 A	03-Feb-2025	122	94.59%
72	P4-5779	Installation of strut S1	40		09-Jan-2025 A	24-Feb-2025	122	45%
73	P4-5789	Wailing welding and testing	10		24-Feb-2025	06-Mar-2025	122	0%
74	P4-5799	Soft Excavation to F.L.	35		06-Mar-2025	14-Apr-2025	122	0%
75	P4-5809	Concrete Blinding	10		14-Apr-2025	28-Apr-2025	122	0%
76	P4-5819	Bedding and Pipe Laying (Twins DN700)	6		28-Apr-2025	05-May-2025	122	0%
77	**CHB810-CHB867 (57M)**		79		18-Jan-2025 A	16-Apr-2025	135	12.2%
78	P4-5820	Bedding and Pipe Laying (Twins DN700)	7		01-Feb-2025*	08-Feb-2025	135	0%
79	P4-5825	RC Works Inspection Chamber at CHB867	32		18-Jan-2025 A	04-Mar-2025	135	30%
80	P4-5830	Backfilling of drain to at grade level from CHB750 to CHB867	40		04-Mar-2025	16-Apr-2025	135	0%
81	**Rising Main CHB867 to CHB974 (107M) Gang 4-5**		214		08-Jan-2025 A	01-Sep-2025	62	9.33%
82	**CHB867-CHB900 (33M)**		40		23-Jan-2025 A	27-Mar-2025	165	0%
83	P4-6390	Bedding and Pipe Laying (Twins DN700)	18		01-Feb-2025*	19-Feb-2025	165	0%
84	P4-6395	RC Works DAV Chamber at CHB960	40		23-Jan-2025 A	27-Mar-2025	165	13.93%
85	**CHB900-CHB974 (74M)**		214		08-Jan-2025 A	01-Sep-2025	62	9.33%
86	P4-6402	Soft Excavation to 1st strut level	46		08-Jan-2025 A	28-Feb-2025	62	43.48%
87	P4-6412	Installation of strut S1	46		28-Feb-2025	22-Apr-2025	62	0%
88	P4-6413	Wailing welding and testing	10		22-Apr-2025	03-May-2025	62	0%
89	P4-6423	Soft Excavation to F.L.	50		03-May-2025	26-Jun-2025	62	0%
90	P4-6433	Concrete Blinding	15		26-Jun-2025	14-Jul-2025	62	0%
91	P4-6434	Bedding and Pipe Laying (Twins DN700)	8		14-Jul-2025	22-Jul-2025	62	0%
92	P4-6435	Backfilling of drain to at grade level from CHB900 to CHB974	39		22-Jul-2025*	01-Sep-2025	62	0%
93	**Rising Main Installation by Pipe Jacking CHB560 to CHB500 (60M)**		92		20-Nov-2024 A	18-Feb-2025	347	81.88%
94	P4-5509	Construction of inspection chamber at CH490	28	1	20-Nov-2024 A	03-Feb-2025	361	92.19%
95	P4-5519	Backfilling to at grade level at pit CHB500	29	2	23-Jan-2025 A	17-Feb-2025	347	45.74%
96	P4-5530	Extract sheet pile and Reinstatement of DSD Maintenance Access Road	14		28-Jan-2025 A	18-Feb-2025	347	92.06%
97	**NS 250 PE Pipe Installation (From KT6.07A to KT6.01) [190.226m]**		88		01-Feb-2025	10-May-2025	32	0%
98	**Sewer Pipeline FMH_KT6.06A to FMH_KT6.04A [62.86m] (53.153m+9.707m)**		54		01-Feb-2025	29-Mar-2025	66	0%
99	P4-6740	Sheet Pile Installation for open trench (2.5m embedment depth, 3.5m retaining height)	25		01-Feb-2025	27-Feb-2025	32	0%
100	P4-6750	Soft Excavation to F.L +3.2mPD	25		06-Feb-2025	04-Mar-2025	66	0%
101	P4-6800	Bedding and Pipe Laying (NS 250 HDPE Pipe)	7		04-Mar-2025	11-Mar-2025	66	0%
102	P4-6810	RC Works of KT6.05A and KT6.04A	17		11-Mar-2025	29-Mar-2025	66	0%
103	P4-6820	Backfilling of drain to at grade level and extraction of sheet pile	18		11-Mar-2025	29-Mar-2025	66	0%
104	**Sewer Pipeline FMH_KT6.04A to FMH_KT6.01A [127.366m] (16.208m+59.625m+51.533m)**		88		01-Feb-2025	10-May-2025	32	0%
105	P4-6920	Sheet Pile Installation to proposed toe level +0.7mPD (2.5m embedment depth, 3.5m re	35		01-Feb-2025	10-Mar-2025	32	0%



Completed Work
Remaining Work
Critical Remaining Work
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Non-Critical Milestone
Summary

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4M ROLLING PROGRAMME - JAN - APR 2025

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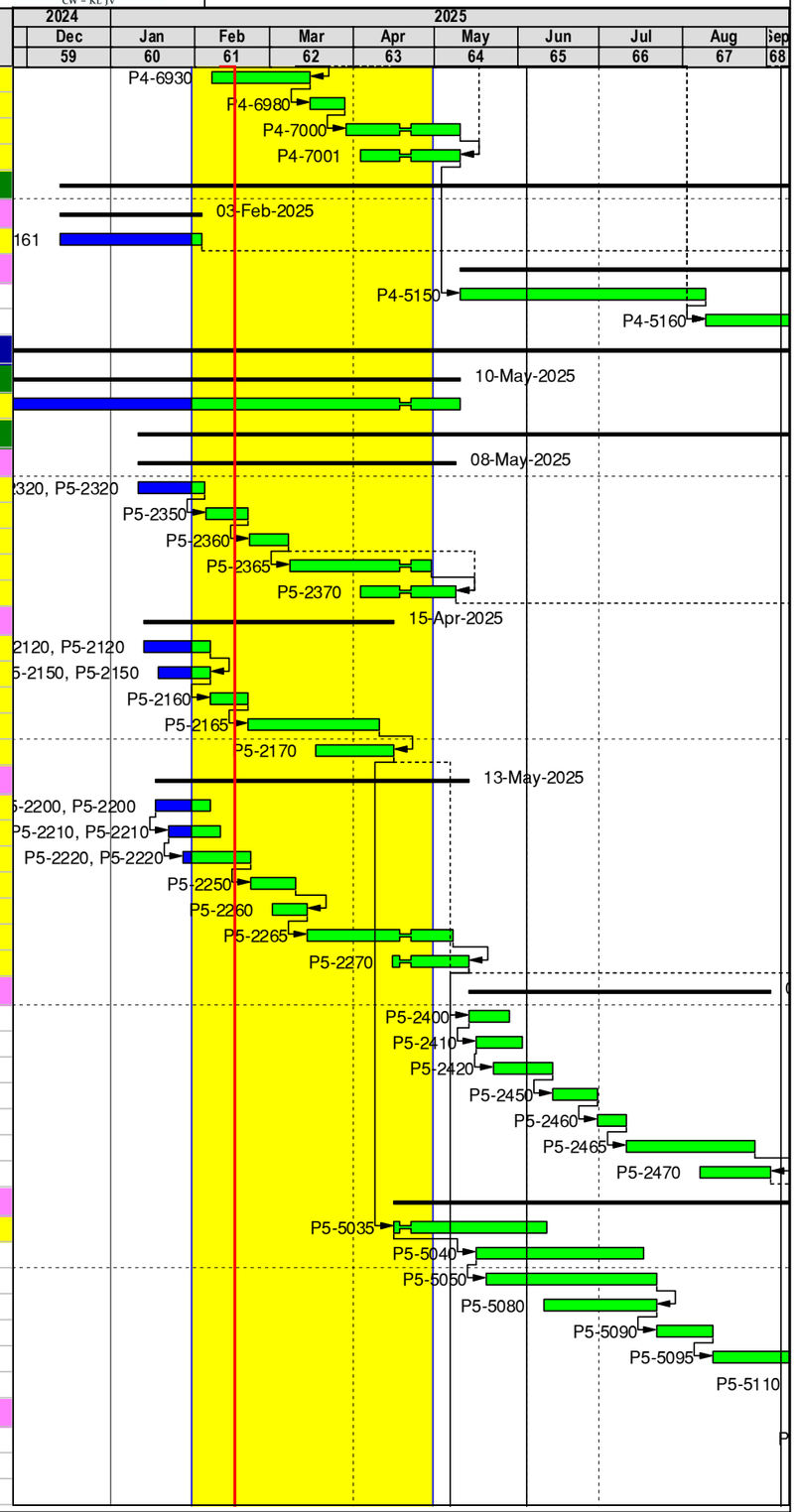
Layout: VRA

#	Activity ID	Activity Name	Original Duration	TRA	Start	Finish	Total Float	Duration % Complete
106	P4-6930	Lower down existing ground +6.7mPD to form final excavation level +3.2mPD with 35 d	35		07-Feb-2025	15-Mar-2025	32	0%
107	P4-6980	Bedding and Pipe Laying (NS 250 HDPE Pipe)	12		15-Mar-2025	28-Mar-2025	32	0%
108	P4-7000	RC Works of KT6.03A, KT6.02A and KT6.01A	35		29-Mar-2025	10-May-2025	32	0%
109	P4-7001	Backfilling of drain to at grade level and extraction of sheet pile	30		03-Apr-2025	10-May-2025	32	0%
110	**Reinstatement**		266		13-Dec-2024 A	04-Oct-2025	32	15.43%
111	**Slope Reinstatement**		43		13-Dec-2024 A	03-Feb-2025	254	94.86%
112	P4-5161	Grasscrete laying works for river embankment along Sheung Yue River from CHB860 -	43		13-Dec-2024 A	03-Feb-2025	254	94.86%
113	**Remaining Reinstatement Works**		136		10-May-2025	04-Oct-2025	32	0%
114	P4-5150	Utilities Works (Telecom & electricity)	84	14	10-May-2025	09-Aug-2025	32	0%
115	P4-5160	Reinstatement of Road, disturbed landscape area, and Tree Planting (2nos.)	52	30	09-Aug-2025	04-Oct-2025*	32	0%
116	**Portion 5 - Sewage Rising Main**		1933		14-Apr-2020 A	24-Feb-2026	18	81.8%
117	**Preparation Works**		1663		14-Apr-2020 A	10-May-2025	280	94.66%
118	P5-5030	Tree Protection and Preservation	1663	4	14-Apr-2020 A	10-May-2025	280	94.66%
119	**Sewage Rising Main Installation by Open Cut (CHB1056 to CHB1557)**		368		11-Jan-2025 A	24-Feb-2026	18	4.52%
120	**CHB1056 - CHB1102 (46m)**		103		11-Jan-2025 A	08-May-2025	235	16.13%
121	P5-2320	Installation of strut S1	20	2	11-Jan-2025 A	04-Feb-2025	235	83.33%
122	P5-2350	Soft Excavation to F.L.	15	2	05-Feb-2025	20-Feb-2025	235	0%
123	P5-2360	Bedding and Pipe Laying (Twins DN700)	14	2	21-Feb-2025	07-Mar-2025	235	0%
124	P5-2365	RC Works Inspection Chamber and Air Valve Chamber at CHB1050	46		08-Mar-2025	29-Apr-2025	235	0%
125	P5-2370	Backfilling to at grade level	29	2	03-Apr-2025	08-May-2025	235	0%
126	**CHB1102 - CHB1151 (49m)**		84		13-Jan-2025 A	15-Apr-2025	12	18.24%
127	P5-2120	Installation of strut S1	21	2	13-Jan-2025 A	06-Feb-2025	12	73.8%
128	P5-2150	Soft Excavation to F.L.	15	2	18-Jan-2025 A	06-Feb-2025	12	64.6%
129	P5-2160	Bedding and Pipe Laying (Twins DN700)	13	2	06-Feb-2025	20-Feb-2025	12	0%
130	P5-2165	RC Works Inspection Chamber and Air Valve Chamber at CHB1127	45		20-Feb-2025	10-Apr-2025	12	0%
131	P5-2170	Backfilling to at grade level	27	2	17-Mar-2025	15-Apr-2025	12	0%
132	**CHB1151 - CHB1200 (49m)**		101		17-Jan-2025 A	13-May-2025	126	10.04%
133	P5-2200	Sheet Pile Installation for open trench	15	2	17-Jan-2025 A	06-Feb-2025	126	65.47%
134	P5-2210	Soft Excavation to 1st strut level	15	2	22-Jan-2025 A	10-Feb-2025	126	43.07%
135	P5-2220	Installation of strut S1	21	2	27-Jan-2025 A	21-Feb-2025	126	5.82%
136	P5-2250	Soft Excavation to F.L.	15	2	21-Feb-2025	10-Mar-2025	126	0%
137	P5-2260	Bedding & Pipe Laying (Twins DN700)	12	2	01-Mar-2025	14-Mar-2025	126	0%
138	P5-2265	RC Works Inspection Chamber and Air Valve Chamber	46		14-Mar-2025	07-May-2025	126	0%
139	P5-2270	Backfilling to at grade level	22	2	15-Apr-2025	13-May-2025	126	0%
140	**CHB1300 - CHB 1359 (59m)**		105		13-May-2025	02-Sep-2025	126	0%
141	P5-2400	Sheet Pile Installation for open trench	15	2	13-May-2025	28-May-2025	126	0%
142	P5-2410	Soft Excavation to 1st strut level	15	2	16-May-2025	02-Jun-2025	126	0%
143	P5-2420	Installation of strut S1	20	2	22-May-2025	13-Jun-2025	126	0%
144	P5-2450	Soft Excavation to F.L.	15	2	13-Jun-2025	30-Jun-2025	126	0%
145	P5-2460	Bedding and Pipe Laying (Twins DN700)	10	2	30-Jun-2025	11-Jul-2025	126	0%
146	P5-2465	RC Works Inspection Chamber and Air Valve Chamber at CHB1337	45		11-Jul-2025	27-Aug-2025	126	0%
147	P5-2470	Backfilling to at grade level	25	2	07-Aug-2025	02-Sep-2025	126	0%
148	**CHB1359 - CHB 1478 (119m)**		157		15-Apr-2025	06-Oct-2025	12	0%
149	P5-5035	Sheet Pile Installation for open trench	49	2	15-Apr-2025	11-Jun-2025	12	0%
150	P5-5040	Soft Excavation to 1st strut level	57	2	16-May-2025	17-Jul-2025	12	0%
151	P5-5050	Installation of strut S1	58	2	20-May-2025	22-Jul-2025	12	0%
152	P5-5080	Soft Excavation to F.L.	39	2	10-Jun-2025	22-Jul-2025	12	0%
153	P5-5090	Bedding and Pipe Laying (Twins DN700)	20	2	22-Jul-2025	12-Aug-2025	12	0%
154	P5-5095	RC Works Inspection Chamber and Air Valve Chamber at CHB1457	45		12-Aug-2025	27-Sep-2025	12	0%
155	P5-5110	Backfilling to at grade level	20	2	13-Sep-2025	06-Oct-2025	12	0%
156	**CHB1478 - CHB 1557 (79m)**		84		06-Oct-2025	07-Jan-2026	12	0%
157	P5-5115	Sheet Pile Installation for open trench	36	2	06-Oct-2025	14-Nov-2025	12	0%
158	P5-5120	Soft Excavation to 1st strut level	39	2	16-Oct-2025	27-Nov-2025	12	0%
159	P5-5130	Installation of strut S1	40	2	18-Oct-2025	01-Dec-2025	12	0%



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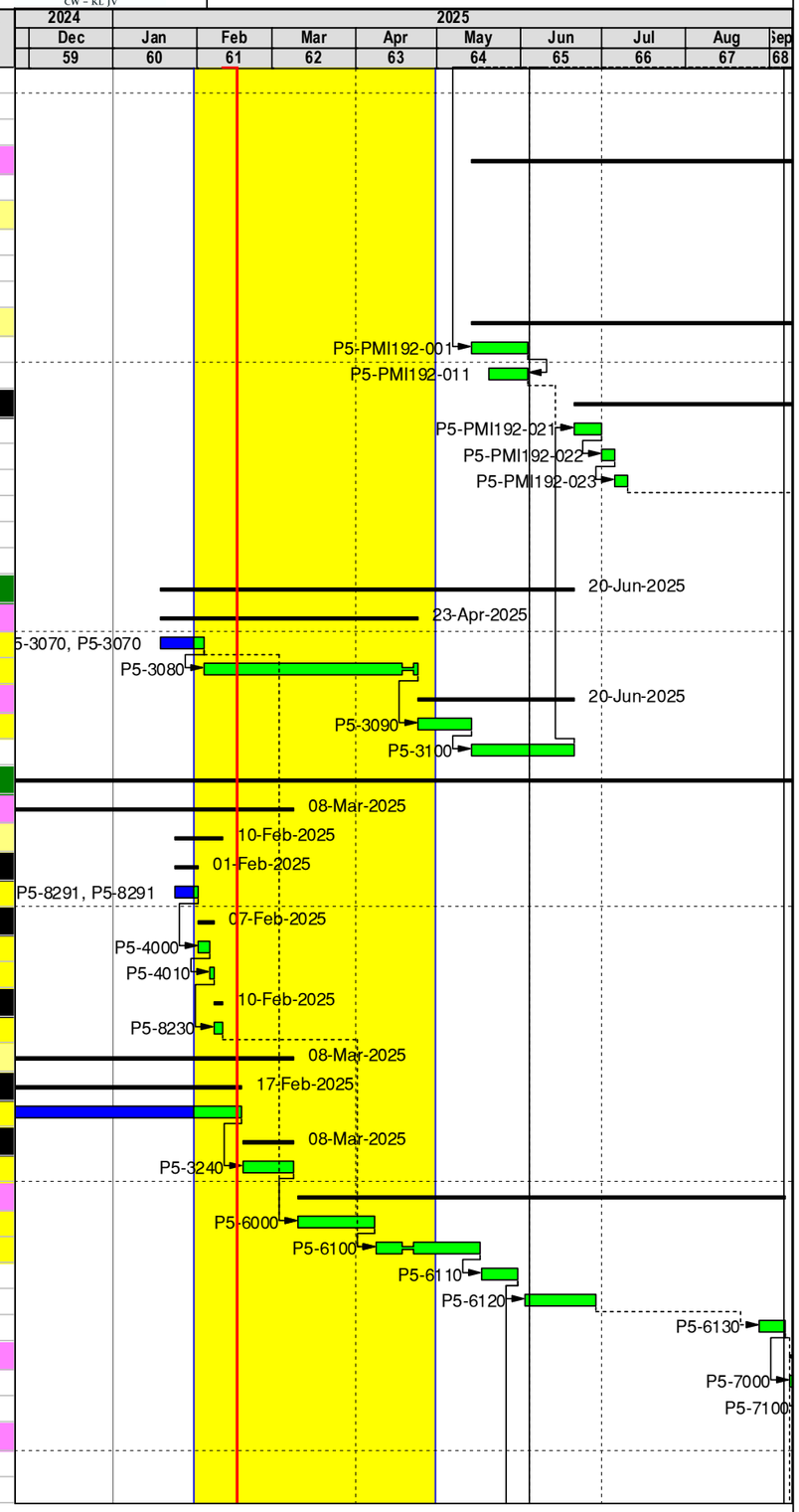
160	P5-5160	Soft Excavation to F.L.	21	2	08-Nov-2025	01-Dec-2025	12	0%
161	P5-5170	Bedding and Pipe Laying (Twins DN700)	20	2	01-Dec-2025	22-Dec-2025	12	0%
162	P5-5190	Backfilling to at grade level	20	2	13-Dec-2025	07-Jan-2026	12	0%
163	**Reinstatement**		261		13-May-2025	24-Feb-2026	18	0%
164	P5-5000	Underground Utilities & Road reinstatement and Reinstatement of disturbed landscape	42	14	07-Jan-2026	24-Feb-2026	12	0%
165	**Additional Landscaping Works**		36		15-Dec-2025	24-Jan-2026	38	0%
166	P5-Planting-0050	Shrubs Planting 591m along Shek Sheung River (6nos. Ficus microcarpa (golden) x 3m	27		15-Dec-2025	15-Jan-2026	38	0%
167	P5-Planting-0060	Shrubs Planting 591m along Shek Sheung River (6 nos. Lxora chinensis x 3m intervals)	27		15-Dec-2025	15-Jan-2026	38	0%
168	P5-Planting-0070	Planter watering	9		15-Jan-2026	24-Jan-2026	38	0%
169	**PMI No. 192 - Additional Soiling, Planting & Assoc. Reinstatement Works**		256		13-May-2025	14-Feb-2026	23	0%
170	P5-PMI192-001	5 tree stumps (existing tree pits), debris and weeds removal works	19	6	13-May-2025	03-Jun-2025	185	0%
171	P5-PMI192-011	Removal of 14 sets of existing tree grilles	12		20-May-2025	03-Jun-2025	185	0%
172	**Tree Plantation (14 Lagerstroemia Speciosa Tree)**		220		20-Jun-2025	14-Feb-2026	23	0%
173	P5-PMI192-021	Installation of 2 Trees (at existing pits) near CHB1060	9	2	20-Jun-2025	30-Jun-2025	168	0%
174	P5-PMI192-022	Installation of 1 Tree (at existing pit) near CHB1150	4	1	30-Jun-2025	05-Jul-2025	168	0%
175	P5-PMI192-023	Installation of 1Tree (at existing pit) near CHB1210	4	1	05-Jul-2025	10-Jul-2025	168	0%
176	P5-PMI192-024	Installation of 10 Trees (at existing pits) located between CHB1470 to CHB1569	44	10	13-Dec-2025	02-Feb-2026	23	0%
177	P5-PMI192-031	Reinstatement of 14 sets of tree grilles after Tree planting	12		02-Feb-2026	14-Feb-2026	23	0%
178	P5-PMI192-041	Obtain PM/Supervisor Acceptance for Tree Planting works	0			14-Feb-2026	31	0%
179	**CHB982 to CHB1046 [64M] Sewage Rising Main Installation across Sheung Yue River by Pipejacking**		136		18-Jan-2025 A	20-Jun-2025	168	6.72%
180	**Pipe Jacking**		82		18-Jan-2025 A	23-Apr-2025	168	11.08%
181	P5-3070	Removal of TBM (2.1m dia) & Transfer to Launching Pit at Shek Sheung River	11	0	18-Jan-2025 A	03-Feb-2025	43	82.83%
182	P5-3080	Rising Main pipe laying (Triple DN700 housed in DN3000 Sleeve Pipe, 2.6m/day), Grou	71	3	03-Feb-2025	23-Apr-2025	168	0%
183	**Reinstatement**		53		23-Apr-2025	20-Jun-2025	168	0%
184	P5-3090	Construction of Switch Over chamber/D.A.V chamber at CHB1035	18	1	23-Apr-2025	13-May-2025	168	0%
185	P5-3100	Backfilling to at grade level	36	2	13-May-2025	20-Jun-2025	168	0%
186	**CHB1680 to CHB1560 [120M] Sewage Rising Main Installation across Shek Sheung River by Pipejacking**		419		21-Oct-2024 A	26-Jan-2026	37	22%
187	**ELS**		127		21-Oct-2024 A	08-Mar-2025	37	72.81%
188	**RECEIVING PIT CHB1560**		21		24-Jan-2025 A	10-Feb-2025	63	61.05%
189	**Stage 3**		3		24-Jan-2025 A	01-Feb-2025	63	100%
190	P5-8291	Dewatering 1000mm below final excavation level	3	1	24-Jan-2025 A	01-Feb-2025	63	100%
191	**Stage 4**		6		01-Feb-2025	07-Feb-2025	63	0%
192	P5-4000	Excavate to final excavation level	4	1	01-Feb-2025	05-Feb-2025	63	0%
193	P5-4010	Construct 200mm thick Blinding Layer at T.L=-8.20mPD	2	1	05-Feb-2025	07-Feb-2025	63	0%
194	**Stage 5**		2		07-Feb-2025	10-Feb-2025	63	0%
195	P5-8230	Dismantle and remove 5th layer wailing and strut	2	1	07-Feb-2025	10-Feb-2025	63	0%
196	**JACKING PIT CHB1680**		127		21-Oct-2024 A	08-Mar-2025	10	72.81%
197	**Construction of Jacking Pit at CHB1680 (DJ water viaduct zone)**		68		21-Oct-2024 A	17-Feb-2025	10	76.97%
198	P5-3232	(c) Excavation works up to formation level	68		21-Oct-2024 A	17-Feb-2025	10	76.97%
199	**Trial grout at CHB1680 for horizontal grout**		19		18-Feb-2025	08-Mar-2025	10	0%
200	P5-3240	Trial grout at CHB1680 for horizontal grout	19		18-Feb-2025	08-Mar-2025	10	0%
201	**PIPE JACKING (CHB1680 to CHB1560)**		165		10-Mar-2025	06-Sep-2025	38	0%
202	P5-6000	TBM tranpsort & setup at Jacking Pit CHB1680 (driven by P5-3070)	27		10-Mar-2025	07-Apr-2025	10	0%
203	P5-6100	Pipe Jacking from CHB1680 to CHB1560 (120m) with Christmas & CNY 2025	33		08-Apr-2025	16-May-2025	10	0%
204	P5-6110	Removal of TBM & gears and grouting works	13		17-May-2025	30-May-2025	10	0%
205	P5-6120	Installation of 3 nos. DN700 Ductile Iron pipes, valve and fittings	27	3	02-Jun-2025	28-Jun-2025	94	0%
206	P5-6130	Water pressure test and grouting of pipeline (driver P6-5150)	10		28-Aug-2025*	06-Sep-2025	38	0%
207	**MANHOLE**		52		08-Sep-2025	04-Nov-2025	37	0%
208	P5-7000	Construction of Manhole at CHB1545 (D.A.V chamber CHB1541)	45	3	08-Sep-2025	27-Oct-2025	38	0%
209	P5-7100	Construction of Manhole at CHB1680 (Driver P6-5110 predecessor FS)	45		15-Sep-2025*	04-Nov-2025	37	0%
210	**REINSTATEMENT**		82		27-Oct-2025	26-Jan-2026	37	0%
211	P5-8000	CHB1560 Pit Backfilling and ELS removal	45	3	27-Oct-2025	15-Dec-2025	38	0%
212	P5-8100	Reinstatement works at CHB1560	30		15-Dec-2025	19-Jan-2026	38	0%



Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 31-Jan-2025
Project Start: 03-Feb-2020
Project End: 14-Mar-2026
Baseline: N/A

4M ROLLING PROGRAMME - JAN - APR 2025

Date	Revision	Checked	Approved
03-Feb-2025	0	RP	PH/WW

Filter: TASK filter: DD+4M Lookahead.
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CEDD 土木工程拓展署 Civil Engineering and Development Department

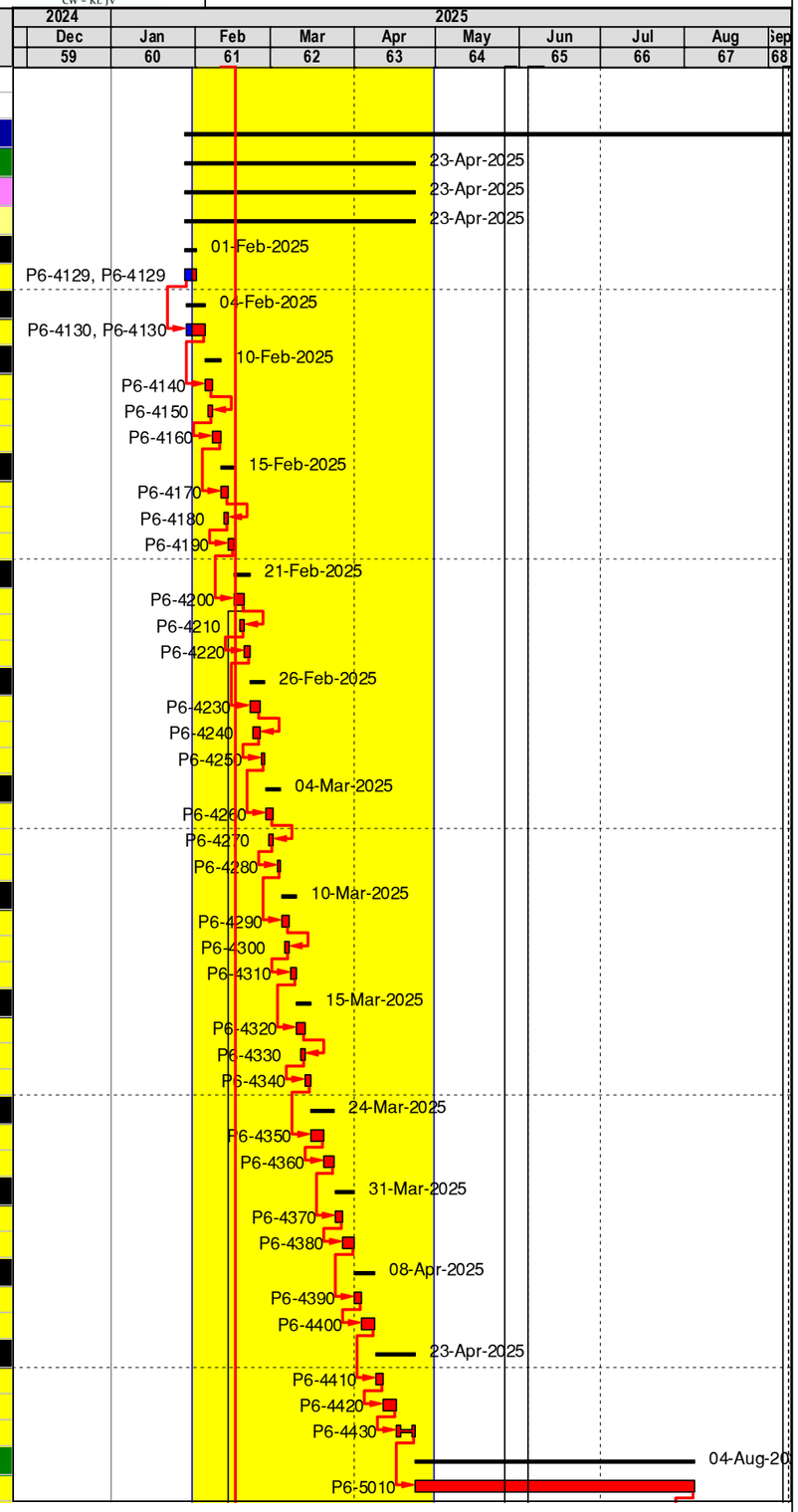
ND/2019/02 - Kwu Tung North New Development Area Phase 1: Roads & Drains between Kwu Tong North New Development Area and Shek Wu Hui

AECOM

俊和－群利聯營體 CW – KL JV

Monthly Programme Update (Jan 2025) as at 31-Jan-2025

#	Activity ID	Activity Name	Original Duration	TRA	Start	Finish	Total Float	Duration % Complete
213	P5-8300	CHB1680 Pit Backfilling and ELS removal	45		04-Nov-2025	22-Dec-2025	37	0%
214	P5-8310	Reinstatement works at CHB1680	30		22-Dec-2025	26-Jan-2026	37	0%
215	**Portion 6 - CHB1680 to CHB1740 [60M] Sewage Pipe Jacking across Shek Sheung River and MTRC near SW**		370		28-Jan-2025 A	14-Mar-2026	-18	0.24%
216	**ELS (CHB1740)**		74		28-Jan-2025 A	23-Apr-2025	-18	1.2%
217	**Construction of Receiving Pit at CHB1740 (SWH) and Pumping Test**		74		28-Jan-2025 A	23-Apr-2025	-18	1.2%
218	**Excavation**		74		28-Jan-2025 A	23-Apr-2025	-18	1.2%
219	**Stage 1 (+7.53 mPD)**		1		28-Jan-2025 A	01-Feb-2025	-18	88.89%
220	P6-4129	Preparation works for commencement of excavation works upto formation level (workin	1		28-Jan-2025 A	01-Feb-2025	-18	88.89%
221	**Stage 2 (+7.00 mPD)**		3		28-Jan-2025 A	04-Feb-2025	-18	16.67%
222	P6-4130	Excavate to 500mm below 1st layer of wailing & strut	3	1	28-Jan-2025 A	04-Feb-2025	-18	16.67%
223	**Stage 3 (+7.00 mPD) | 1st Layer**		5		04-Feb-2025	10-Feb-2025	-18	0%
224	P6-4140	Install 1st layer of wailing & strut	3	1	04-Feb-2025	07-Feb-2025	-18	0%
225	P6-4150	Dewater to 1000mm below 2nd layer of wailing & strut	2	1	05-Feb-2025	07-Feb-2025	-18	0%
226	P6-4160	Excavate to 500mm below 2nd layer of wailing & strut	2	1	07-Feb-2025	10-Feb-2025	-18	0%
227	**Stage 4 (+4.5 mPD) | 2nd Layer**		5		10-Feb-2025	15-Feb-2025	-18	0%
228	P6-4170	Install 2nd layer of wailing & strut	3	1	10-Feb-2025	13-Feb-2025	-18	0%
229	P6-4180	Dewater to 1000mm below 3rd layer of wailing & strut	2	1	11-Feb-2025	13-Feb-2025	-18	0%
230	P6-4190	Excavate to 500mm below 3rd layer of wailing & strut	2	1	13-Feb-2025	15-Feb-2025	-18	0%
231	**Stage 5 (+2.00 mPD) | 3rdLayer**		5		15-Feb-2025	21-Feb-2025	-18	0%
232	P6-4200	Install 3rd layer of wailing & strut	3	1	15-Feb-2025	19-Feb-2025	-18	0%
233	P6-4210	Dewater to 1000mm below 4th layer of wailing & strut	2	1	17-Feb-2025	19-Feb-2025	-18	0%
234	P6-4220	Excavate to 500mm below 4th layer of wailing & strut	2	1	19-Feb-2025	21-Feb-2025	-18	0%
235	**Stage 6 (-0.50 mPD) | 4th Layer**		5		21-Feb-2025	26-Feb-2025	-18	0%
236	P6-4230	Install 4th layer of wailing & strut	3	1	21-Feb-2025	25-Feb-2025	-18	0%
237	P6-4240	Dewater to 1000mm below 5th layer of wailing & strut	2	1	22-Feb-2025	25-Feb-2025	-18	0%
238	P6-4250	Excavate to 500mm below 5th layer of wailing & strut	2	1	25-Feb-2025	26-Feb-2025	-18	0%
239	**Stage 7 (-2.50 mPD) | 5th Layer**		5		27-Feb-2025	04-Mar-2025	-18	0%
240	P6-4260	Install 5th layer of wailing & strut	3	1	27-Feb-2025	01-Mar-2025	-18	0%
241	P6-4270	Dewater to 1000mm below 6th layer of wailing & strut	2	1	28-Feb-2025	01-Mar-2025	-18	0%
242	P6-4280	Excavate to 500mm below 6th layer of wailing & strut	2	1	03-Mar-2025	04-Mar-2025	-18	0%
243	**Stage 8 (-4.50 mPD) | 6th Layer**		5		05-Mar-2025	10-Mar-2025	-18	0%
244	P6-4290	Install 6th layer of wailing & strut	3	1	05-Mar-2025	07-Mar-2025	-18	0%
245	P6-4300	Dewater to 1000mm below 7th layer of wailing & strut	2	1	06-Mar-2025	07-Mar-2025	-18	0%
246	P6-4310	Excavate to 500mm below 7th layer of wailing & strut	2	1	08-Mar-2025	10-Mar-2025	-18	0%
247	**Stage 9 (-6.00 mPD) | 7th Layer**		5		10-Mar-2025	15-Mar-2025	-18	0%
248	P6-4320	Install 7th layer of wailing & strut	3	1	10-Mar-2025	13-Mar-2025	-18	0%
249	P6-4330	Dewater to 1000mm below the Final Level Excavation Level	2	1	12-Mar-2025	13-Mar-2025	-18	0%
250	P6-4340	Excavate 500mm below the Final Level Excavation Level	2	1	13-Mar-2025	15-Mar-2025	-18	0%
251	**Stage 10 (-7.921 mPD) | Blinding Layer**		8		15-Mar-2025	24-Mar-2025	-18	0%
252	P6-4350	Construct 200mm Blinding Layer at T.L=-7.921mPD.	4	1	15-Mar-2025	20-Mar-2025	-18	0%
253	P6-4360	Remove 7th and 6th layer of wailing & strut	3	1	20-Mar-2025	24-Mar-2025	-18	0%
254	**Stage 11**		7		24-Mar-2025	31-Mar-2025	-18	0%
255	P6-4370	Backfill to T.L.=-3.00mPD.	3	1	24-Mar-2025	27-Mar-2025	-18	0%
256	P6-4380	Remove 5th layer of wailing & strut	3	1	27-Mar-2025	31-Mar-2025	-18	0%
257	**Stage 12**		7		31-Mar-2025	08-Apr-2025	-18	0%
258	P6-4390	Backfill to T.L.=-1.00mPD.	3	1	31-Mar-2025	03-Apr-2025	-18	0%
259	P6-4400	Remove 4th layer of wailing & strut	3	1	03-Apr-2025	08-Apr-2025	-18	0%
260	**Stage 13**		11		08-Apr-2025	23-Apr-2025	-18	0%
261	P6-4410	Backfill to T.L.=+0.03mPD.	3	1	08-Apr-2025	11-Apr-2025	-18	0%
262	P6-4420	Construct Blinding layerat T.L.=0.03mPD.	4	1	11-Apr-2025	16-Apr-2025	-18	0%
263	P6-4430	Remove 3rd layer of wailing & strut	3	1	16-Apr-2025	23-Apr-2025	-18	0%
264	**GROUND TREATMENT**		94		23-Apr-2025	04-Aug-2025	-18	0%
265	P6-5010	Horizontal ground treatment & testing at CHB1740 (49 NTH 3-hr shift, 4nights/wk)	94		23-Apr-2025	04-Aug-2025	-18	0%



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4M ROLLING PROGRAMME - JAN - APR 2025

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Monthly Programme Update (Jan 2025) as at 31-Jan-2025

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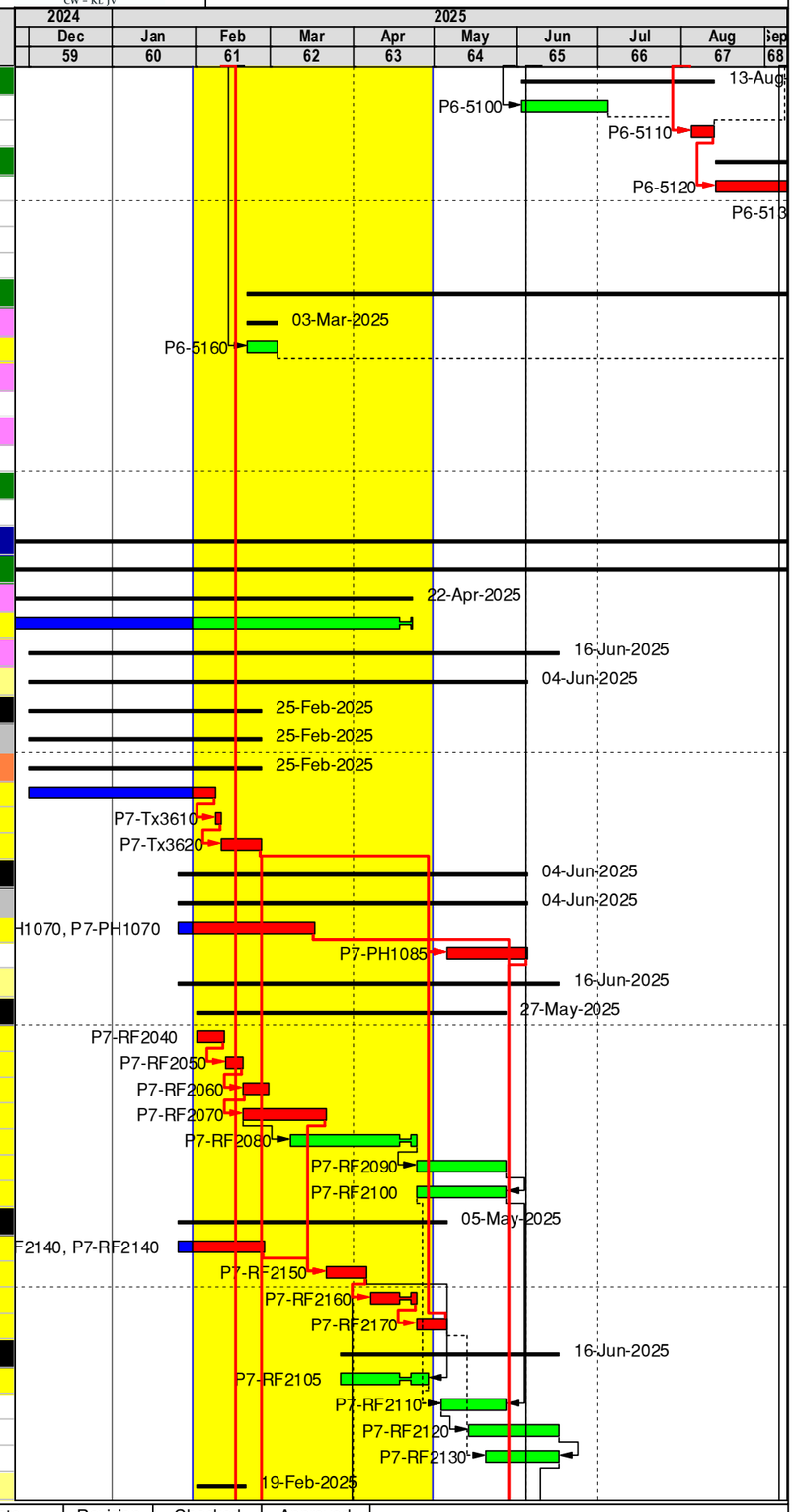
266	PIPE JACKING (CHB1680 to CHB1703)		68		02-Jun-2025	13-Aug-2025	-18	0%
267	P6-5100	Tunnel Boring Machine (TBM) setup and assembly at Jacking Pit CHB1680	31		02-Jun-2025*	04-Jul-2025	10	0%
268	P6-5110	Pipe Jacking from CHB1680 to CHB1703 (23m, Daywork)	9		04-Aug-2025	13-Aug-2025	-18	0%
269	PIPE JACKING (CHB1703 to CHB1740)		114		13-Aug-2025	15-Dec-2025	-18	0%
270	P6-5120	Pipe Jacking from CHB1703 to CHB1740 (37m, 21 NTH, 4nights/wk)	35		13-Aug-2025	19-Sep-2025	-18	0%
271	P6-5130	Removal of TBM and gears and grouting works	30		19-Sep-2025	23-Oct-2025	-18	0%
272	P6-5140	Installation of 3 nos. DN700 Ductile Iron pipes, valve and fittings	39	3	23-Oct-2025	04-Dec-2025	-18	0%
273	P6-5150	Water pressure test and grouting of pipeline (driving P5-6130)	10		04-Dec-2025	15-Dec-2025	-18	0%
274	MANHOLE		313		20-Feb-2025	29-Jan-2026	-18	0%
275	Stage 1/3		10		20-Feb-2025	03-Mar-2025	244	0%
276	P6-5160	Construction of Manhole SSM1 at CHB1752	10	3	20-Feb-2025	03-Mar-2025	244	0%
277	Stage 2/3		33		15-Dec-2025	22-Jan-2026	-18	0%
278	P6-5162	Construction of Manhole SSM1 at CHB1752	33	3	15-Dec-2025	22-Jan-2026	-18	0%
279	Stage 3/3		7		22-Jan-2026	29-Jan-2026	-18	0%
280	P6-5163	Site Clearance	7		22-Jan-2026	29-Jan-2026	-18	0%
281	REINSTATEMENT		39		29-Jan-2026	14-Mar-2026	-18	0%
282	P6-5170	CHB1740 Pit Backfilling and ELS removal	39	3	29-Jan-2026*	14-Mar-2026	-18	0%
283	Portion 7 - Kwu Tung North Sewage Pumping station		1686		03-Aug-2020 A	13-Sep-2025	163	87.78%
284	Sewage Pumping Station		1686		03-Aug-2020 A	13-Sep-2025	163	87.78%
285	Site Preparation		1545		03-Aug-2020 A	22-Apr-2025	297	95.33%
286	P7-1040	Tree Protection and Preservation	1545	4	03-Aug-2020 A	22-Apr-2025	297	95.33%
287	ABWF/ E&M Works		174		30-Nov-2024 A	16-Jun-2025	50	30.1%
288	Ground Floor		163		30-Nov-2024 A	04-Jun-2025	-71	32.15%
289	Tx Room / Switch Room		75		30-Nov-2024 A	25-Feb-2025	-11	69.99%
290	BS Works		75		30-Nov-2024 A	25-Feb-2025	-11	69.99%
291	CLP works & Statutory Inspection		75		30-Nov-2024 A	25-Feb-2025	-11	69.99%
292	P7-Tx3600	CLP Installation Works	60	2	30-Nov-2024 A	08-Feb-2025	-11	87.22%
293	P7-Tx3610	Energization of Tx Equipment	1	2	08-Feb-2025	10-Feb-2025*	-11	0%
294	P7-Tx3620	CLP Electric Meter Installation	14	2	10-Feb-2025	25-Feb-2025*	-11	0%
295	Pump Hall		114		25-Jan-2025 A	04-Jun-2025	-71	2.93%
296	BS Works		114		25-Jan-2025 A	04-Jun-2025	-71	2.93%
297	P7-PH1070	T&C of Pump Hall Equipments & connection of AFA system to Megalink	45	0	25-Jan-2025 A	17-Mar-2025	-30	7.41%
298	P7-PH1085	Overall System T&C before FSD Inspection	28	2	05-May-2025	04-Jun-2025	-71	0%
299	Roof Floor		124		25-Jan-2025 A	16-Jun-2025	50	2.15%
300	ABWF		104		01-Feb-2025	27-May-2025	50	0%
301	P7-RF2040	Applying Roof waterproofing Membrane	10	0	01-Feb-2025	11-Feb-2025	-71	0%
302	P7-RF2050	Water Testing & Infra red testing	6	0	12-Feb-2025	18-Feb-2025	-71	0%
303	P7-RF2060	Laying Insulation board with protection floor screed	10	0	18-Feb-2025	28-Feb-2025	-71	0%
304	P7-RF2070	Laying Floor finishes	30	0	18-Feb-2025	21-Mar-2025	-71	0%
305	P7-RF2080	Roof water tank Installation & testing	40	0	08-Mar-2025	24-Apr-2025	50	0%
306	P7-RF2090	Roof Skylight Installation	30	0	24-Apr-2025	27-May-2025	50	0%
307	P7-RF2100	Roof Balustrade & Fall Arrest system Installation	30	0	24-Apr-2025	27-May-2025	50	0%
308	BS Works		86		25-Jan-2025 A	05-May-2025	-71	3.12%
309	P7-RF2140	BS 1st Fixing (Elec, Water, Irrigation piping)	27	0	25-Jan-2025 A	26-Feb-2025	-49	10%
310	P7-RF2150	BS 2nd Fixing (Elec, Water, Irrigation System connection)	14	0	21-Mar-2025	05-Apr-2025	-71	0%
311	P7-RF2160	BS final Fixing	14	0	07-Apr-2025	24-Apr-2025	-71	0%
312	P7-RF2170	T&C of Roof BS System	9	0	24-Apr-2025	05-May-2025	-71	0%
313	Landscape Works		70		27-Mar-2025	16-Jun-2025	50	0%
314	P7-RF2105	Roof Planters Drainages, irrigation pipe, Artiifcal Granite Tile Installation	27	0	27-Mar-2025	28-Apr-2025	54	0%
315	P7-RF2110	Soil Backfilling to Roof Planters	22	0	03-May-2025	27-May-2025	50	0%
316	P7-RF2120	Shurbs Planting works to roof floor (5,802 nos)	31	0	13-May-2025	16-Jun-2025	50	0%
317	P7-RF2130	Water Points installation for irrigation	25	0	20-May-2025	16-Jun-2025	50	0%
318	External Staircase		18		01-Feb-2025	19-Feb-2025	102	0%



Completed Work
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4M ROLLING PROGRAMME - JAN - APR 2025

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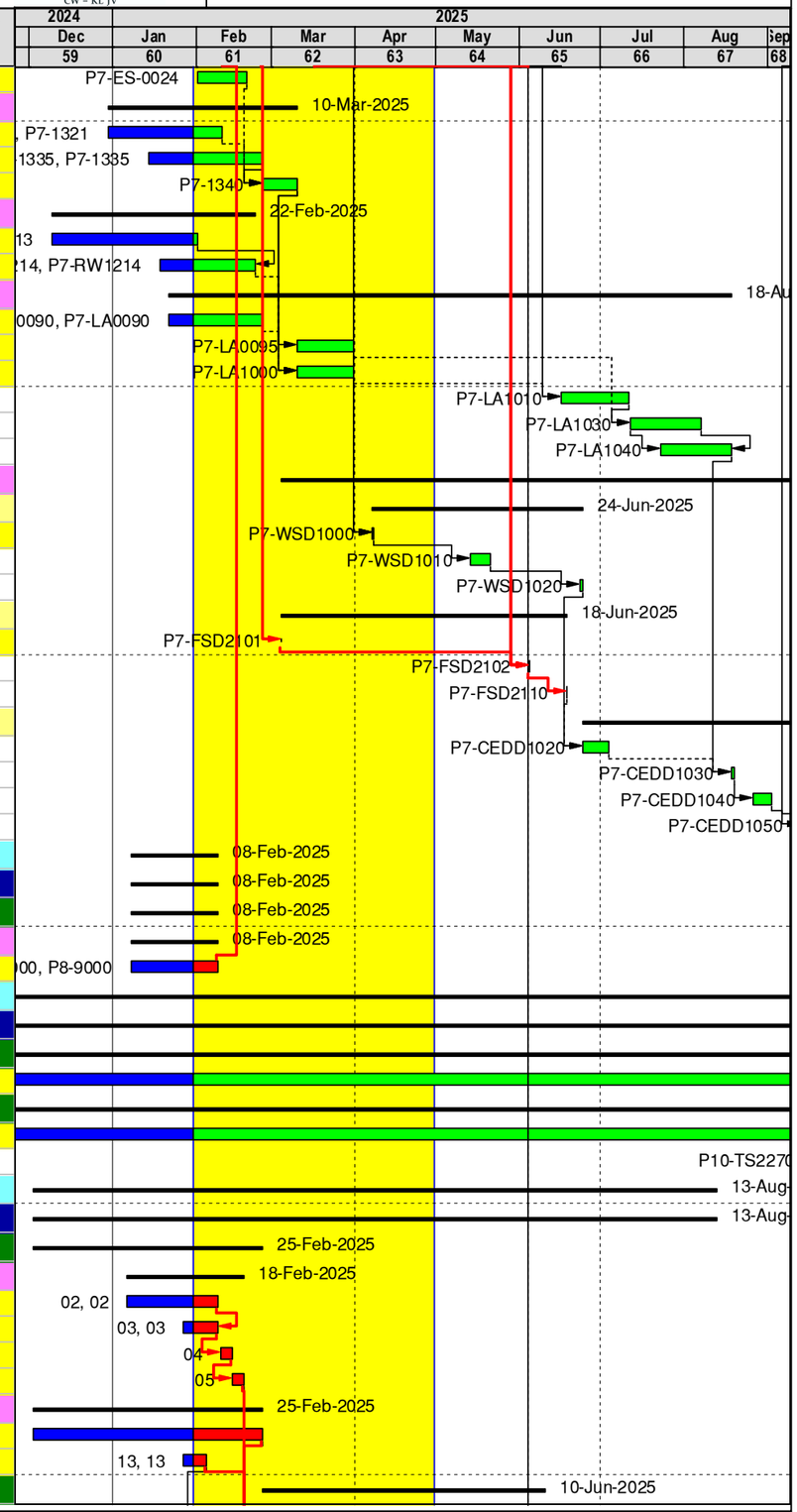
Monthly Programme Update (Jan 2025) as at 31-Jan-2025

#	Activity ID	Activity Name	Original Duration	TRA	Start	Finish	Total Float	Duration % Complete
319	P7-ES-0024	Laying of staircase finishes	18		01-Feb-2025	19-Feb-2025	102	0%
320	**External Finishes**		63		30-Dec-2024 A	10-Mar-2025	97	44.25%
321	P7-1321	Fence Wall Gate Installation	36	3	30-Dec-2024 A	10-Feb-2025	111	76.22%
322	P7-1335	FRR Shutters Installation	36	3	14-Jan-2025 A	25-Feb-2025	97	38.11%
323	P7-1340	Removal of external scaffolding	12	2	25-Feb-2025	10-Mar-2025	97	0%
324	**Retaining Wall & U trough**		66		09-Dec-2024 A	22-Feb-2025	112	68.24%
325	P7-RW1213	Construction of U Trough RC Structure wall (KW08 Type A)(Wall Founding level +6.2m	45	3	09-Dec-2024 A	01-Feb-2025	112	99.02%
326	P7-RW1214	Backfill to formation level to +7.5mPD	30	3	18-Jan-2025 A	22-Feb-2025	112	30.37%
327	**Landscape Works**		188		21-Jan-2025 A	18-Aug-2025	50	3.73%
328	P7-LA0090	Climber Installation with Vertical Planting	30	2	21-Jan-2025 A	25-Feb-2025	109	23.33%
329	P7-LA0095	Placing irrigation pipe and Planting Soil near main entrance of SPS	20	2	10-Mar-2025	31-Mar-2025	97	0%
330	P7-LA1000	Placing irrigation pipe and Planting Soil Near Retaining Wall RW-08	20	2	10-Mar-2025	31-Mar-2025	97	0%
331	P7-LA1010	Tree Planting (7nos. Tm & 7nos Tp) Near Retaining Wall RW-08	24	2	16-Jun-2025	11-Jul-2025	50	0%
332	P7-LA1030	Tree Planting (4nos. BJ, 4nos VO & 1no. of WB) after wooden fence installation	25	2	12-Jul-2025	07-Aug-2025	50	0%
333	P7-LA1040	Shrubs Planting (Tja, Rex, cte, oja etc.) Total 2,229 nos.	25	2	23-Jul-2025	18-Aug-2025	50	0%
334	**Statutory Inspection**		177		04-Mar-2025	13-Sep-2025	50	0%
335	**WSD Inspection (Irrigation Water Supply)**		69		07-Apr-2025	24-Jun-2025	92	0%
336	P7-WSD1000	Submit Form WWO046 Part IV For WSD Inspection - Irrigation Water Supply	1	2	07-Apr-2025	07-Apr-2025	92	0%
337	P7-WSD1010	WSD Inspection - Irrigation Water Supply	7	2	13-May-2025	21-May-2025	92	0%
338	P7-WSD1020	Issue Water Certificate (Part V) - Irrigation Water Supply	1	2	23-Jun-2025	24-Jun-2025	92	0%
339	**FSD Inspection**		95		04-Mar-2025	18-Jun-2025	-69	0%
340	P7-FSD2101	Submit FS Form 314 / 501 For FSD Inspection	0	2	04-Mar-2025*	04-Mar-2025	-5	0%
341	P7-FSD2102	FSD Inspection	1		04-Jun-2025	04-Jun-2025*	-71	0%
342	P7-FSD2110	Issue Fire Certificate (Form 172)	0	2	18-Jun-2025	18-Jun-2025*	-69	0%
343	**CEDD / DSD Inspection**		77		24-Jun-2025	13-Sep-2025	50	0%
344	P7-CEDD1020	Overall System T&C before CEDD / DSD Inspection	9	2	24-Jun-2025	04-Jul-2025	92	0%
345	P7-CEDD1030	Submit Inspection Form For CEDD /DSD Inspection	1	2	18-Aug-2025	19-Aug-2025	50	0%
346	P7-CEDD1040	CEDD / DSD Inspection	7	2	26-Aug-2025	02-Sep-2025	50	0%
347	P7-CEDD1050	Issue Completion Certificate by CEDD and handover to DSD for operation	1	2	13-Sep-2025	13-Sep-2025*	50	0%
348	**Works in Section 3**		27		08-Jan-2025 A	08-Feb-2025	-278	70.83%
349	**Portion 8 - Roads & Drains**		27		08-Jan-2025 A	08-Feb-2025	-278	70.83%
350	**Reinstatement**		27		08-Jan-2025 A	08-Feb-2025	-278	70.83%
351	**Remaining Reinstatement Works**		27		08-Jan-2025 A	08-Feb-2025	-278	70.83%
352	P8-9000	Road formation, reinstatement of disturbed landscape area & Tree Planting (35nos)	27	18	08-Jan-2025 A	08-Feb-2025	-278	70.83%
353	**Works in Section 4**		441		23-Sep-2024 A	22-Sep-2025	182	40.81%
354	**Portion 10 - Visitor Centre**		441		23-Sep-2024 A	22-Sep-2025	182	40.81%
355	**Defect Liability Period**		406		23-Sep-2024 A	22-Sep-2025	182	35.62%
356	DLP-001	365 days	406		23-Sep-2024 A	22-Sep-2025	182	35.62%
357	**Switching Sewerage System**		395		08-Oct-2024 A	22-Sep-2025	182	33.91%
358	P10-TS2260	Operation and decommissioning works for temporary sewerage system	395	12	08-Oct-2024 A	22-Sep-2025	182	33.91%
359	P10-TS2270	Switch back to permanent system	6	0	18-Sep-2025	22-Sep-2025	182	0%
360	**Works in Section 5**		228		02-Dec-2024 A	13-Aug-2025	-23	22.9%
361	**Portion 11 - Village Resite Area [CE-203 | PMI-160/168/236]**		228		02-Dec-2024 A	13-Aug-2025	-23	22.9%
362	**Revised Ducting Works**		75		02-Dec-2024 A	25-Feb-2025	-30	69.63%
363	**Ducts**		38		06-Jan-2025 A	18-Feb-2025	-23	58.48%
364	02	Cable ducts (8 nos. 150mm dia UPVC pipe in 2 layer)	30		06-Jan-2025 A	08-Feb-2025	-23	74.07%
365	03	Cable ducts (4 nos. 150mm dia UPVC pipe in 2 layer)	10		27-Jan-2025 A	08-Feb-2025	-23	22.22%
366	04	Cable ducts (2 nos. 150mm dia UPVC pipe in 2 layer)	5		10-Feb-2025	14-Feb-2025	-23	0%
367	05	Cable ducts (6 way 150mm dia G.I duct in 2 layer and 38mm x 6mm tinned copper bar	3		14-Feb-2025	18-Feb-2025	-23	0%
368	**Drawpits**		75		02-Dec-2024 A	25-Feb-2025	-30	69.63%
369	06	Cable drawpits (2000mm x 2000mm) x 15nos.	75		02-Dec-2024 A	25-Feb-2025	-30	69.63%
370	13	Cable drawpits (4900mm x 2500mm) x 1 nos.	5		27-Jan-2025 A	04-Feb-2025	-10	44.44%
371	**Revised Electrical Substation**		93		25-Feb-2025	10-Jun-2025	-30	0%



Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

Data Date: 31-Jan-2025
Project Start: 03-Feb-2020
Project End: 14-Mar-2026
Baseline: N/A

4M ROLLING PROGRAMME - JAN - APR 2025

Date	Revision	Checked	Approved
03-Feb-2025	0	RP	PH/WW

Filter: TASK filter: DD+4M Lookahead.
Layout: VRA

CEDD 土木工程拓展署 Civil Engineering and Development Department

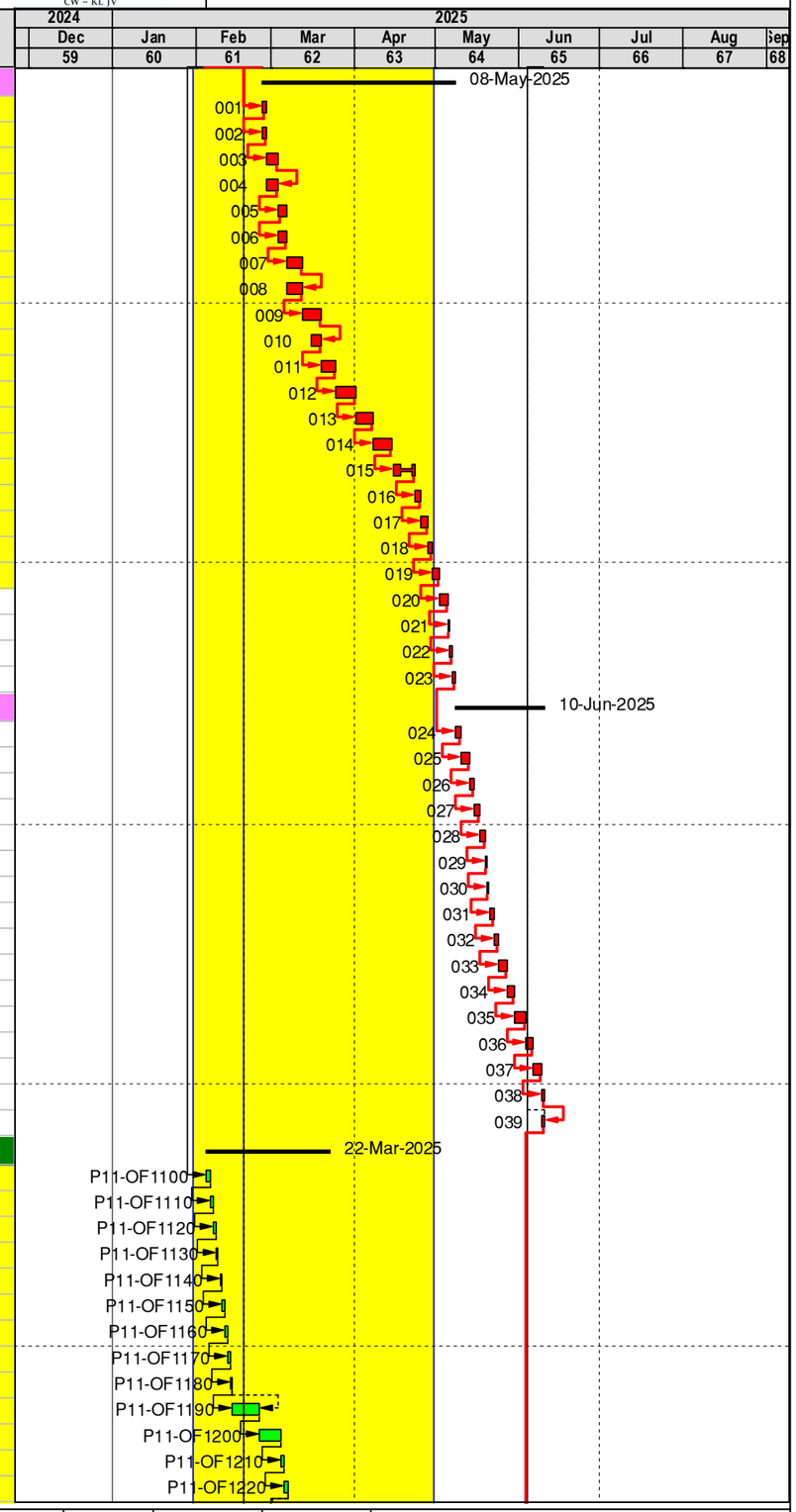
ND/2019/02 - Kwu Tung North New Development Area Phase 1: Roads & Drains between Kwu Tong North New Development Area and Shek Wu Hui

AECOM

俊和－群利聯營體 CW – KL JV

Monthly Programme Update (Jan 2025) as at 31-Jan-2025

#	Activity ID	Activity Name	Original Duration	TRA	Start	Finish	Total Float	Duration % Complete
372	**Civil & Structural Works**		63		25-Feb-2025	08-May-2025	-30	0%
373	001	Excavation for structures, material other than rock or artificial hard material, maximum c	2		25-Feb-2025	27-Feb-2025	-30	0%
374	002	Excavation of soft spots, below structures, general fill material	2		25-Feb-2025	27-Feb-2025	-30	0%
375	003	Imported rock fill material, below structures	4		27-Feb-2025	03-Mar-2025	-30	0%
376	004	Compaction, rock fill material, below structures	4		27-Feb-2025	03-Mar-2025	-30	0%
377	005	Disposal of material, in tips provided by the Contractor	3		03-Mar-2025	06-Mar-2025	-30	0%
378	006	Filling of soft spots and other voids, below structures, general fill material	3		03-Mar-2025	06-Mar-2025	-30	0%
379	007	Formwork to give class F1 finish exceeding 300mm wide at any inclination more than 8	5		06-Mar-2025	12-Mar-2025	-30	0%
380	008	Formwork to give class F2 finish exceeding 300mm wide at any inclination more than 5	5		06-Mar-2025	12-Mar-2025	-30	0%
381	009	Formwork to give class F2 finish exceeding 300mm wide at any inclination more than 8	7		12-Mar-2025	19-Mar-2025	-30	0%
382	010	Formwork to give class F2 finish not exceeding 300mm wide at any inclination	3		15-Mar-2025	19-Mar-2025	-30	0%
383	011	Formwork to give Class F4 finish exceeding 300mm wide at any inclination more thn 5d	5		19-Mar-2025	24-Mar-2025	-30	0%
384	012	Formwork to give class F4 finish exceeding 300mm wide at any inclination more than 8	7		24-Mar-2025	01-Apr-2025	-30	0%
385	013	High yield steel bar reinforcement , bars not exceeding 12.00m in length 16mm dia. anc	5		01-Apr-2025	07-Apr-2025	-30	0%
386	014	High yield steel bar reinforcement , bars not exceeding 12.00m in length 20mm dia. anc	7		07-Apr-2025	14-Apr-2025	-30	0%
387	015	Concrete Grade C45 ordinary Portland cement	5		15-Apr-2025	23-Apr-2025	-30	0%
388	016	Blinding concrete Grade C15, ordinary Portland cement	2		23-Apr-2025	25-Apr-2025	-30	0%
389	017	Cement sand screed to floor, roofs and the like 50mm thick	2		25-Apr-2025	28-Apr-2025	-30	0%
390	018	Glazed ceramic tile, 45 x 7mm	2		28-Apr-2025	29-Apr-2025	-30	0%
391	019	Glazed Chinese hollow tile, 195 x 15 x 65mm	2		29-Apr-2025	02-May-2025	-30	0%
392	020	Glazed Chinese hollow tile, 225 x 125 x 13mm	2		02-May-2025	05-May-2025	-30	0%
393	021	Glazed Chinese ridge tile, 230 x 180 x 140mm	1		05-May-2025	06-May-2025	-30	0%
394	022	Portable fire extinguisher 45kg CO2	1		06-May-2025	07-May-2025	-30	0%
395	023	5mm thick cheque plate	1		07-May-2025	08-May-2025	-30	0%
396	**ABWF & E&M Works**		30		08-May-2025	10-Jun-2025	-30	0%
397	024	Supply and installation of New MCB board	3		08-May-2025	10-May-2025	-30	0%
398	025	Conduit, adaptable box and all necessary accessories and wiring point for 13A socket/F	2		10-May-2025	13-May-2025	-30	0%
399	026	Conduit, adaptable box and all necessary accessories and wiring	2		13-May-2025	15-May-2025	-30	0%
400	027	Conduit, adaptable box and all necessary accessories and wiring point lighting switch w	2		15-May-2025	17-May-2025	-30	0%
401	028	13A Twin Socket outlet/Lighting switch	1		17-May-2025	19-May-2025	-30	0%
402	029	13A single Socket outlet/Lighting switch	1		19-May-2025	20-May-2025	-30	0%
403	030	Fuse Spur Unit (FSU)	1		20-May-2025	20-May-2025	-30	0%
404	031	Suspended lamps with emergency lighting unit	2		21-May-2025	22-May-2025	-30	0%
405	032	Suspended lamps	2		22-May-2025	24-May-2025	-30	0%
406	033	Remote Indication Light	2		24-May-2025	27-May-2025	-30	0%
407	034	100 x 100 Trunking works	3		27-May-2025	30-May-2025	-30	0%
408	035	200mm Cable Tray with fittings	3		30-May-2025	03-Jun-2025	-30	0%
409	036	Lighting protection Down Conductor system	3		03-Jun-2025	06-Jun-2025	-30	0%
410	037	38 x 6 tinned copper tape	2		06-Jun-2025	09-Jun-2025	-30	0%
411	038	ELV point for door	1		09-Jun-2025	10-Jun-2025	-30	0%
412	039	Weatherproof wall mounted lamp with emergency lighting unit	1		09-Jun-2025	10-Jun-2025	-30	0%
413	**Outfall SMH_KT6.04A**		45		04-Feb-2025	22-Mar-2025	76	0%
414	P11-OF1100	Removal of Grasscrete and concrete materials	2	0	04-Feb-2025	06-Feb-2025	76	0%
415	P11-OF1110	Excavation to formation level	1	0	06-Feb-2025	07-Feb-2025	76	0%
416	P11-OF1120	Laying of silt curtain and delivery of concrete block	1	0	07-Feb-2025	08-Feb-2025	76	0%
417	P11-OF1130	Pour Concrete Blinding	1	0	08-Feb-2025	08-Feb-2025	76	0%
418	P11-OF1140	Erect formwork for Vertical blinding for base slab shear key	1	0	10-Feb-2025	10-Feb-2025	76	0%
419	P11-OF1150	Pour Concrete shear key blinding	1	0	10-Feb-2025	11-Feb-2025	76	0%
420	P11-OF1160	Strip off formwork for shear key	1	0	11-Feb-2025	12-Feb-2025	76	0%
421	P11-OF1170	Erect formwork for Shear key	1	0	12-Feb-2025	13-Feb-2025	76	0%
422	P11-OF1180	Erect formwork for oufall base slab	1	0	13-Feb-2025	14-Feb-2025	76	0%
423	P11-OF1190	Erect formwork for oufall Wall (1st side)	9	0	14-Feb-2025	24-Feb-2025	76	0%
424	P11-OF1200	Rebar fixing for oufall base slab	8	0	24-Feb-2025	04-Mar-2025	76	0%
425	P11-OF1210	Outfall Baseslab concreting	1	0	04-Mar-2025	05-Mar-2025	76	0%
426	P11-OF1220	Dismantle Base slab Formwork	2	0	05-Mar-2025	07-Mar-2025	76	0%



Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

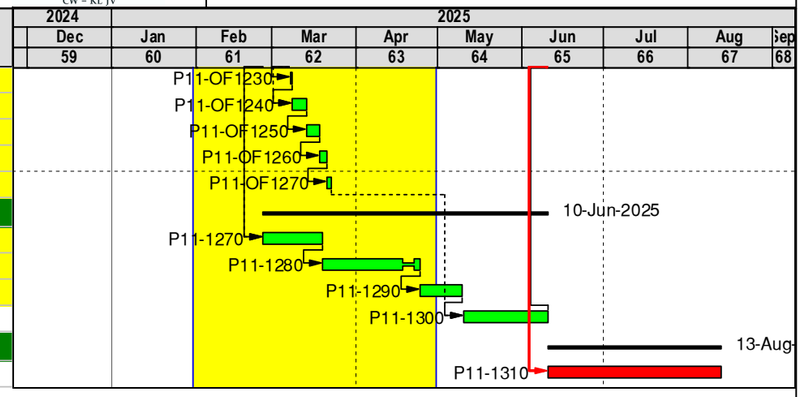
Data Date: 31-Jan-2025
Project Start: 03-Feb-2020
Project End: 14-Mar-2026
Baseline: N/A

4M ROLLING PROGRAMME - JAN - APR 2025

Date	Revision	Checked	Approved
03-Feb-2025	0	RP	PH/WW

Filter: TASK filter: DD+4M Lookahead.
Layout: VRA

#	Activity ID	Activity Name	Original Duration	TRA	Start	Finish	Total Float	Duration % Complete
427	P11-OF1230	Rebar fixing for oufall Wall	1	0	07-Mar-2025	08-Mar-2025	76	0%
428	P11-OF1240	Erect formwork for oufall Wall (2nd side)	5	0	08-Mar-2025	13-Mar-2025	76	0%
429	P11-OF1250	Outfall Wall concreting	4	0	13-Mar-2025	18-Mar-2025	76	0%
430	P11-OF1260	Dismantle Wall Formwork	3	0	18-Mar-2025	21-Mar-2025	76	0%
431	P11-OF1270	Reintatement by Rockfill	2	0	21-Mar-2025	22-Mar-2025	76	0%
432	**Hard Paving Works & Remaining Works**		94		25-Feb-2025	10-Jun-2025	36	0%
433	P11-1270	Footing for road furniture & backfilling	21		25-Feb-2025	19-Mar-2025	36	0%
434	P11-1280	Concrete paving & road marking	30		19-Mar-2025	24-Apr-2025	36	0%
435	P11-1290	Installation of road lights, road furniture, signages	14		24-Apr-2025	09-May-2025	36	0%
436	P11-1300	Landscaping & Remaining Works	29	3	10-May-2025	10-Jun-2025	36	0%
437	**Defect Rectification Period**		60		10-Jun-2025	13-Aug-2025	-30	0%
438	P11-1310	Rectification to defects works	60	2	10-Jun-2025	13-Aug-2025*	-30	0%



Completed Work
Remaining Work
Critical Remaining Work
Critical Milestone
Non-Critical Milestone
Summary

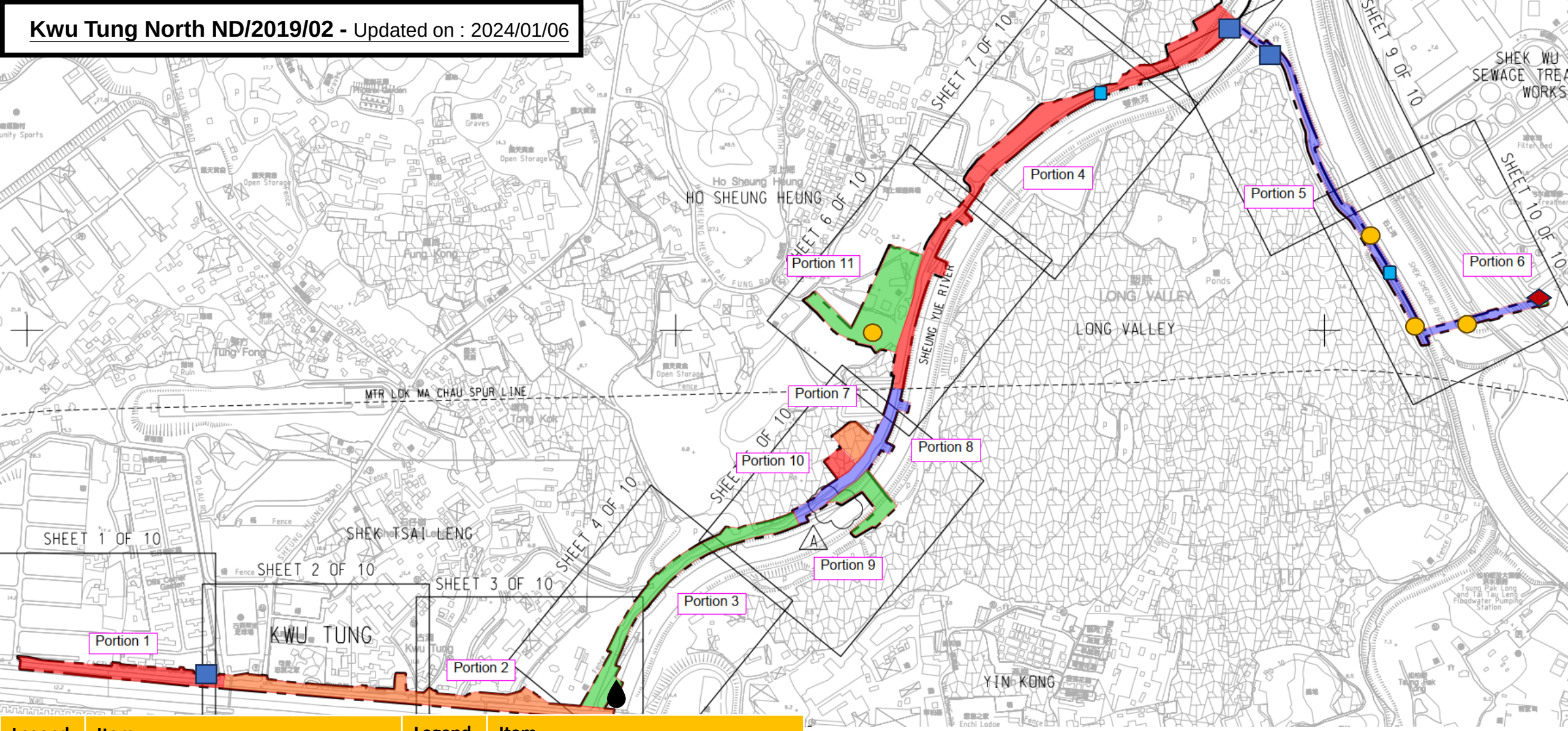
Data Date: 31-Jan-2025
Project Start: 03-Feb-2020
Project End: 14-Mar-2026
Baseline: N/A

4M ROLLING PROGRAMME - JAN - APR 2025

Date	Revision	Checked	Approved
03-Feb-2025	0	RP	PH/WW

Filter: TASK filter: DD+4M Lookahead.
Layout: VRA

Kwu Tung North ND/2019/02 - Updated on : 2024/01/06



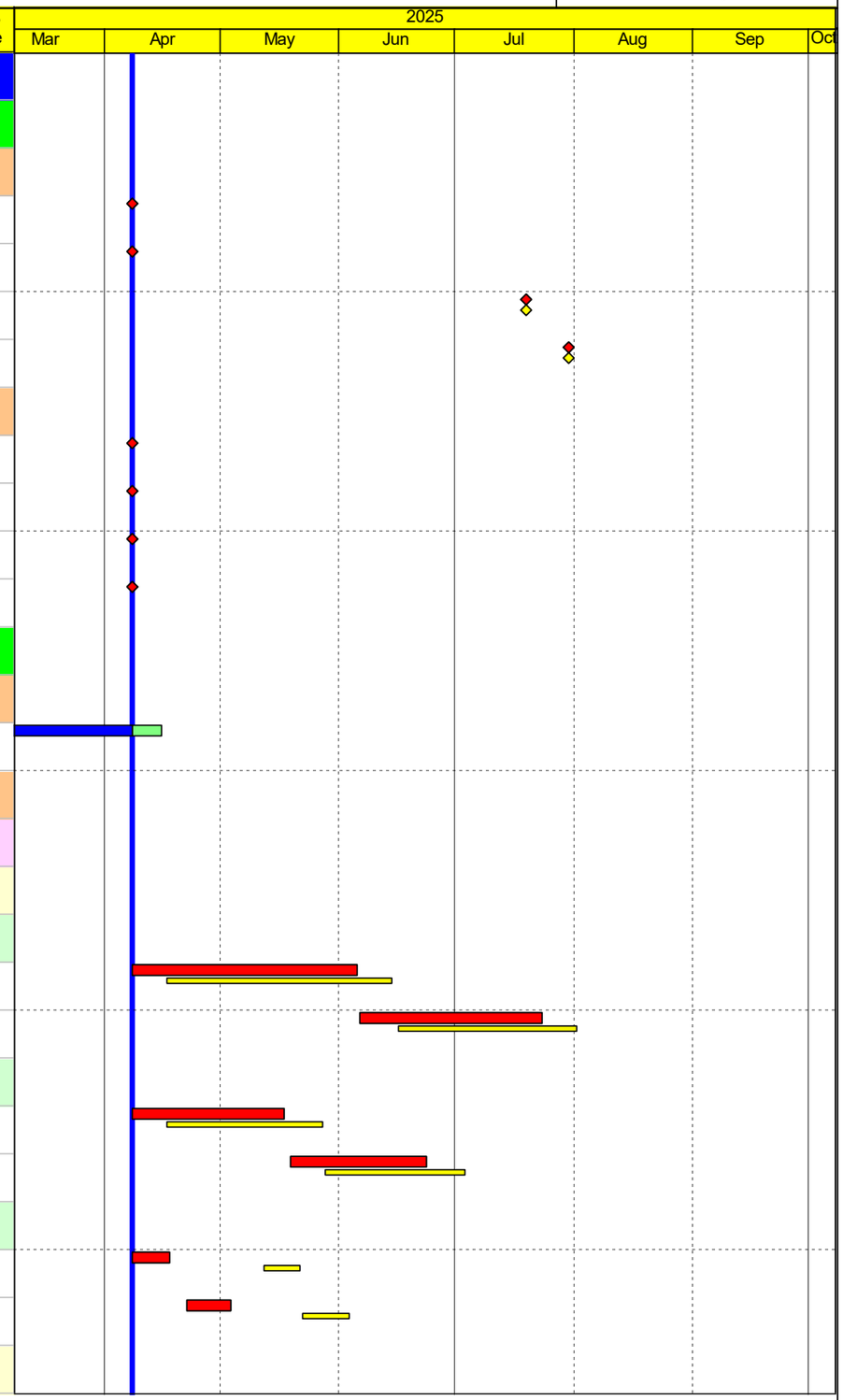
Legend	Item	Legend	Item
	Pipe Jacking		Drilling
	Wastewater Treatment Plant		Sheet piling
	Excavation		Grouting
	Pipe pile		

Construction Programme of ND/2019/04

Contract No: ND/2019/04 - Fanling Northth New Development Area Phase 1, Fanling Bypass Eastern Section
(Shek Wu San Tsuen North to Lung Yeuk Tau)

CEDD | AECOM | DCK JV

Activity ID	Activity Name	Orig. Dur.	Rem. Dur.	Start	Finish	BL Start RP10	BL Finish RP10	Total Float	Activity % Complete
2025-03 Monthly Update (based on RP10 Accepted on 28 Feb 2025)									
Project Contractual Dates									
Contract Key Dates									
CD-1200	Contract KD2:Completion of sewage pumping station & associated rising mains & sewers for FS inspection (1400 days)	0	0		08-Apr-25*		08-Feb-25	-196	0%
CD-1240	Contract KD3:Completion of all works for the opening between Lung Yeuk Tau Interchange & Fanling Highway (1490 days)	0	0		08-Apr-25*		08-Feb-25	-104	0%
CD-1250	Contract KD4: Completion of all works necessary for underpass & associated Stormwater Pumping Station (1700 days)	0	0		19-Jul-25*		19-Jul-25	0	0%
CD-1260	Contract KD5: Completion of all works necessary for the Traffic Control & Surveillance System (1700 days)	0	0		30-Jul-25*		30-Jul-25	0	0%
Contract Sectional Completion Date									
CD-1170	S3 All works within Portion K1 incl. landscape softworks (1125 days)	0	0		08-Apr-25*		08-Feb-25	-167	0%
CD-1180	S4 All works within Portion Q, R, S, T, U, V, X & Y,Junction improvement works at Sui Wan Rd within PortionJ (1150 days)	0	0		08-Apr-25*		08-Feb-25	-468	0%
CD-1210	S5 Al works within Portion N incl. landscape softworks (1490 days)	0	0		08-Apr-25*		08-Feb-25	-105	0%
CD-1220	S6 Reprovisioned public toilet & refuse collection point facility within Portion J (1490 days)	0	0		08-Apr-25*		08-Feb-25	-134	0%
Construction Works									
Construction_Initial Works									
CW-1070	Protection of tree at different portions (S8)	429	7	22-Jul-23 A	15-Apr-25	22-Jul-23	15-Feb-25	72	98.37%
Construction_Works in Portion A and Portion B (KD5)									
Portion A									
Portion A_Noise Barrier (NB91)									
Portion A_Stage 1 (Bay 1 - 4)									
OTH.A.1050	Port.A_NB91_S1 (Bay 1-4) :- Steel Post Installation incl. steel post (15nos, PR=3d/no per gang)	45	45	08-Apr-25	05-Jun-25	17-Apr-25	14-Jun-25	-163	0%
OTH.A.1070	Port.A_NB91_S1 (Bay 1-4) :- Panel Installation (4 bays, PR=10d/bay/gang)	40	40	06-Jun-25	23-Jul-25	16-Jun-25	01-Aug-25	-163	0%
Portion A_Stage 2 (Bay 5 - 7)									
OTH.A.3070	Port.A_NB91_S2 (Bay 5-7) :- Steel Post Installation (10nos, PR=3day/no per gang)	30	30	08-Apr-25	17-May-25	17-Apr-25	27-May-25	-163	0%
OTH.A.3090	Port.A_NB91_S2 (Bay 5-7) :- Panel Installation (3 bays, PR=10d/bay/gang)	30	30	19-May-25	23-Jun-25	28-May-25	03-Jul-25	-138	0%
Portion A_Stage 3 (Bay 8)									
OTH.A.4070	Port.A_NB91_S3 (Bay 8) :- Steel Post Installation (3nos, PR=3day/no per gang)	9	9	08-Apr-25	17-Apr-25	12-May-25	21-May-25	-97	0%
OTH.A.4090	Port.A_NB91_S3 (Bay 8) :- Panel Installation (1 bay, PR=10d/bay/gang)	10	10	22-Apr-25	03-May-25	22-May-25	03-Jun-25	-97	0%
UU Works									



Remaining Work | Crit Milestone | Milestone | Actual Work | Baseline Milestone | Actual Milestone | Project Baseline | Critical Remaining Work

Project ID: RP10.MU03-2025

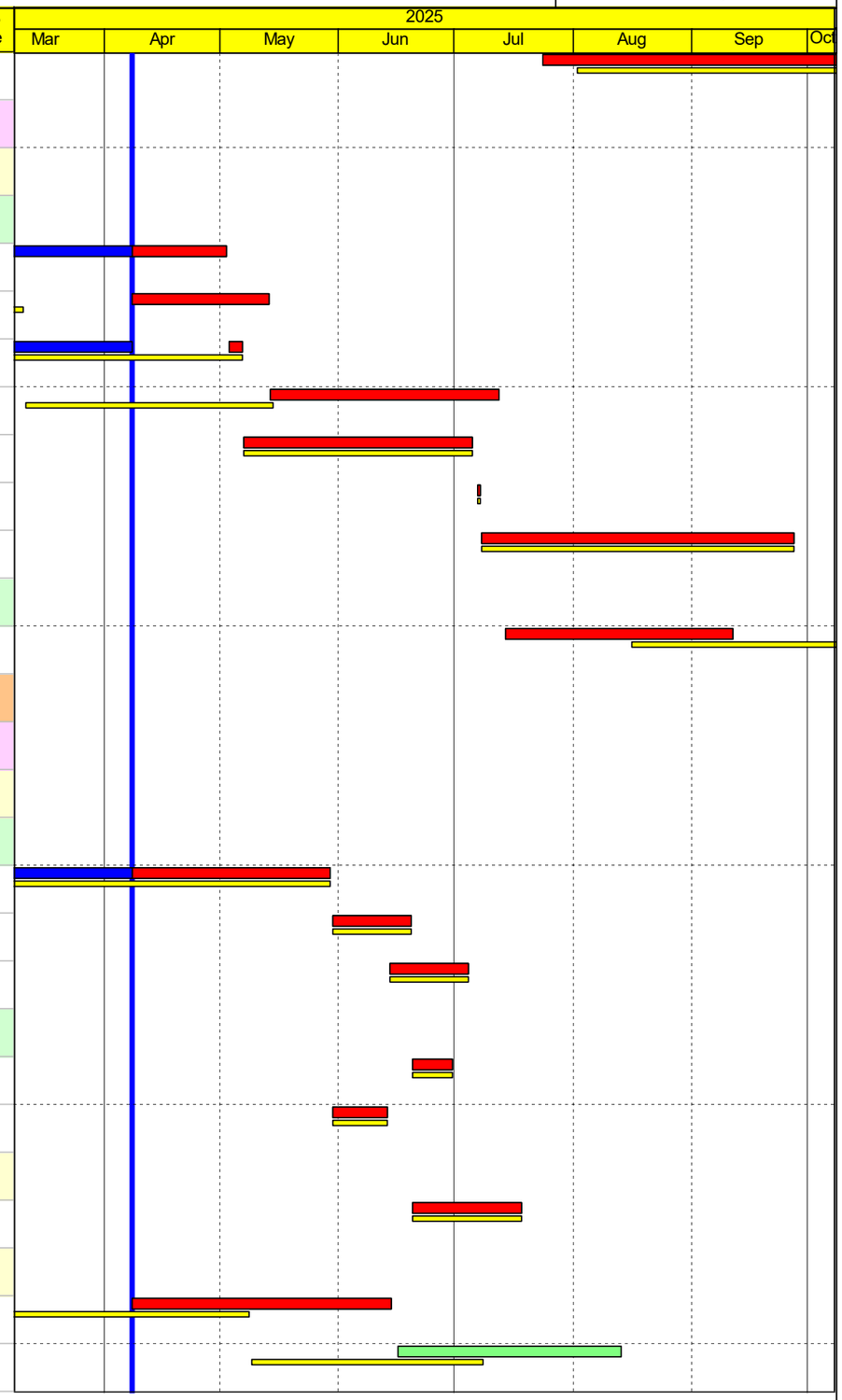
Three Months Rolling Programme (08 April 2025 to 31 July 2025)

Data Date: 08-Apr-25
Printed: 14-Apr-25 13:51
Layout: 3 MRP Layout
TASK filter: 3 Months Lookahead.

Baseline Programme RP10 Accepted on 28 February 2025

Date	Revision	Checked	Approved
08-Apr-25	Data Date		

Activity ID	Activity Name	Orig. Dur.	Rem. Dur.	Start	Finish	BL Start RP10	BL Finish RP10	Total Float	Activity % Complete
OTH.A.5010	Port.A_UU :- Stage 1 - Drawpit Construction (etc.excavation,ELS,duct laying & backfilling) [T=26nos,PR= 6d/drawpit/gan	78	78	24-Jul-25	24-Oct-25	02-Aug-25	04-Nov-25	-163	0%
Portion B									
Portion B_Drainage and UU Works									
Portion B_Stage 2b Road L3 U-Trough and Drainage Works (after setup of FT4 at Bridge A3-02 Deck B)									
OTH.B.5330	Port.B_L3 U-T/Drain_S2b :- Stage 2b Road L3 U-Trough bet Ch 250 & Ch 350- Excavation Works to U-Trough F.L.	54	18	28-Aug-24 A	02-May-25	28-Aug-24	28-Feb-25	-208	66.67%
OTH.B.5350	Port.B_L3 U-T/Drain_S2b :- Stage 2b (Drainage Works) - Pipelaying of DN1800 (L=42m)	26	26	08-Apr-25	13-May-25	08-Feb-25	10-Mar-25	-87	0%
OTH.B.5390	Port.B_L3 U-T/Drain_S2b :- Stage 2b Road L3 U-Trough bet Ch 250 & Ch 350 - Base Slab (L=66m; 6 bays)	51	2	07-Nov-24 A	06-May-25	07-Nov-24	06-May-25	-175	96.08%
OTH.B.5410	Port.B_L3 U-T/Drain_S2b :- Stage 2b UU Works by Others - Backfill & Carry Out UU Works by Others (CLP, Gasmain, Telecom)	50	50	14-May-25	12-Jul-25	11-Mar-25	14-May-25	-87	0%
OTH.B.5430	Port.B_L3 U-T/Drain_S2b :- Stabe 2b Road L3 U-Trough bet Ch 250 & Ch 350 - Walls	50	50	07-May-25	05-Jul-25	07-May-25	05-Jul-25	-175	0%
OTH.B.5450	Port.B_L3 U-T/Drain_S2b :- Backfill U-Trough	1	1	07-Jul-25	07-Jul-25	07-Jul-25	07-Jul-25	-175	0%
OTH.B.5470	Port.B_L3 U-T/Drain_S2b :- Stage 2b (Drainage Works) - Backfill to Formation Level	71	71	08-Jul-25	27-Sep-25	08-Jul-25	27-Sep-25	-175	0%
Portion B_Stage 3 - Drainage Works and Outfalls									
OTH.B.5590	Port.B_Drain/Outfall_S3 :- Stage 3 - Backfill to Formation Level (F.L.)	52	52	14-Jul-25	11-Sep-25	16-Aug-25	17-Oct-25	-87	0%
Construction_Bridge Works & Footbridge F4									
Bridge Works & Footbridge_Bridge F									
Bridge Works - Parapet (Skin Length = 2.3m/Panel)									
Parapet_From F-01 to F-03 (Length = 50m) (Length/Parapet Panel = 2.3m)									
C.F.2590	Bridge F :- Parapet from F-01 to F-03 LHS Finalising Documents for commencement	38	40	28-Nov-24 A	29-May-25	28-Nov-24	29-May-25	-143	0%
C.F.2610	Bridge F :- Parapet from F-01 to F-03 LHS (Workfront 3) - 50m (L)	17	17	30-May-25	19-Jun-25	30-May-25	19-Jun-25	-142	0%
C.F.2630	Bridge F :- Parapet from F-01 to F-03 RHS (Workfront 4) - 50m (L)	17	17	14-Jun-25	04-Jul-25	14-Jun-25	04-Jul-25	-143	0%
Parapet_From F-03 to F-04 (Length = 25m) (Length/Parapet Panel = 2.3m)									
C.F.2650	Bridge F :- Parapet from F-03 to F-04 LHS (Workfront 3) - 25m (L)	9	9	20-Jun-25	30-Jun-25	20-Jun-25	30-Jun-25	-142	0%
C.F.2670	Bridge F :- Parapet from F-03 to F-04 RHS (Workfront 4) - 25m (L)	12	12	30-May-25	13-Jun-25	30-May-25	13-Jun-25	-143	0%
Central Median between F-01 and F-03									
C.F.2690	Bridge F :- Central Median btw F-01 to F-03	24	24	20-Jun-25	18-Jul-25	20-Jun-25	18-Jul-25	-40	0%
Slope reinstatement in both sides of Ng Tung River									
C.F.2730	At grade road btw Bridge F & A1 (Portion C) (S7)-Stage 1 (parapet & central median)	53	53	08-Apr-25	14-Jun-25	01-Mar-25	08-May-25	-38	0%
C.F.2750	At grade road btw Bridge F & A1 (Portion C) (S7)-Stage 2 (remaining road works)	50	50	16-Jun-25	13-Aug-25	09-May-25	08-Jul-25	55	0%



Remaining Work
Milestone
Baseline Milestone
Project Baseline
Critical Remaining Work
Crit Milestone
Actual Work
Actual Milestone

Project ID: RP10.MU03-2025

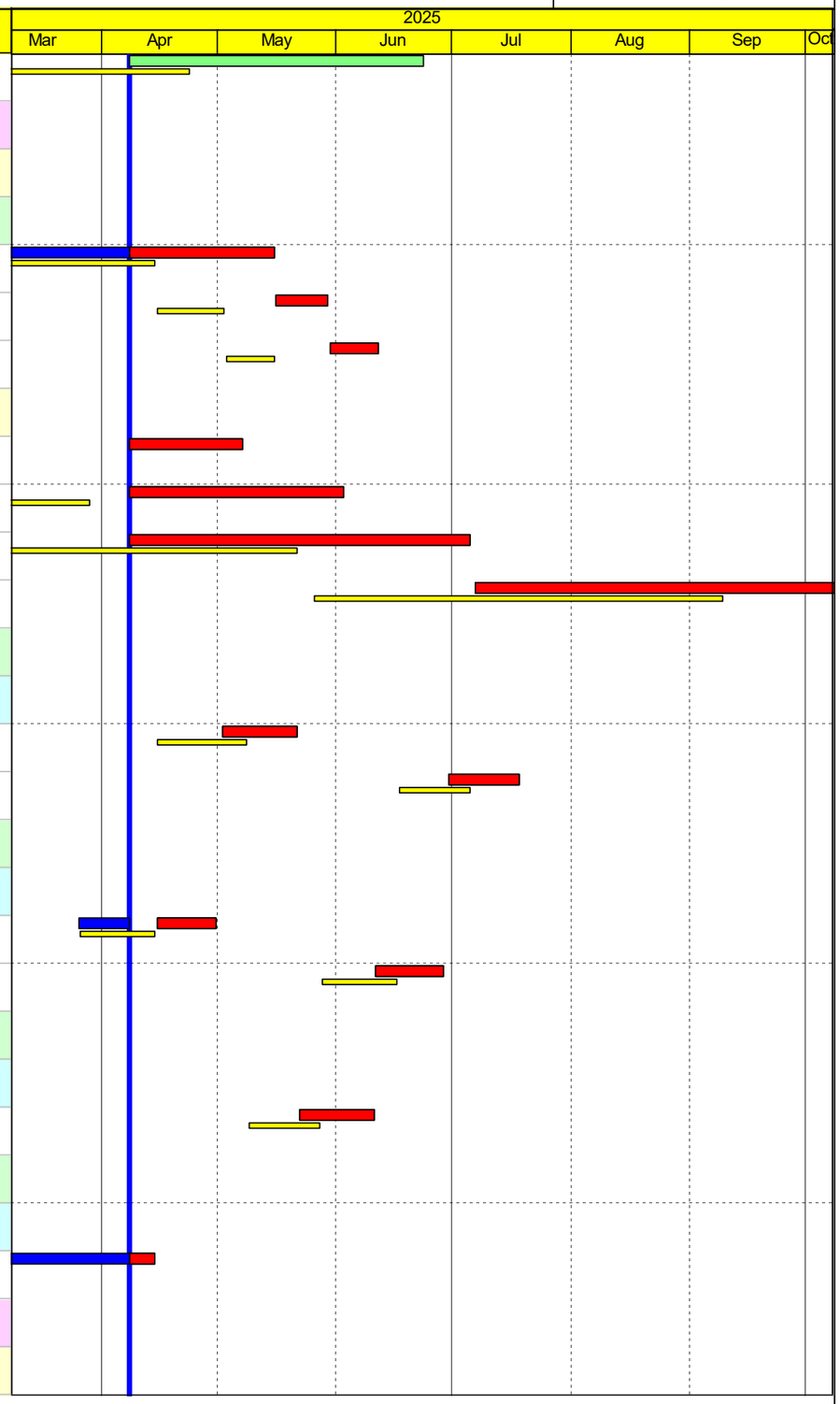
Three Months Rolling Programme (08 April 2025 to 31 July 2025)

Data Date: 08-Apr-25
Printed: 14-Apr-25 13:51
Layout: 3 MRP Layout
TASK filter: 3 Months Lookahead.

Baseline Programme RP10 Accepted on 28 February 2025

Date	Revision	Checked	Approved
08-Apr-25	Data Date		

Activity ID	Activity Name	Orig. Dur.	Rem. Dur.	Start	Finish	BL Start RP10	BL Finish RP10	Total Float	Activity % Complete
C.F4.2710	Reinstate the slope in both sides	60	60	08-Apr-25	23-Jun-25	08-Feb-25	23-Apr-25	96	0%
Bridge Works & Footbridge_Bridge A1									
Construction of Bridge A1 Deck									
A1 Deck_From Piers A1-06 to A2-01 (Deck B)									
C.A1D.1670	Bridge A1 Deck B :- Cast in-site Bridge Deck btw A1-06 & A2-01(Deck B)	45	28	18-Feb-25 A	15-May-25	20-Feb-25	14-Apr-25	-147	37.78%
C.A1D.1690	Bridge A1 Deck B :- Post tensioning slab tendons btw A1-06 & A2-01 (Deck B)	12	12	16-May-25	29-May-25	15-Apr-25	02-May-25	-147	0%
C.A1D.1710	Bridge A1 Deck B :- Removal of scaffolding btw A1-06 & A2-01 (Deck B)	10	10	30-May-25	11-Jun-25	03-May-25	15-May-25	-110	0%
Bridge A1 (Stitching, Central Median and Parapet)									
C.A1P.1010	Bridge A1 :- Long. Stitch (Bridge A1)- 1 span, btw A1-05 & A1-06	21	21	08-Apr-25	07-May-25	08-Feb-25	04-Mar-25	-145	0%
C.A1P.1030	Bridge A1 :- Long. Stitch (Bridge A1)- 1 span, btw A1-05 & A1-03	42	42	08-Apr-25	02-Jun-25	08-Feb-25	28-Mar-25	-1	0%
C.A1P.1110	Bridge A1 :- Long. Stitch (Bridge A1)- 1 span, btw A1-03 & A1-01	70	70	08-Apr-25	05-Jul-25	22-Feb-25	21-May-25	-135	0%
C.A1P.1230	Bridge A1 :- Central Median (Bridge A1)- 1 span, btw A1-01 & A1-06	90	90	07-Jul-25	21-Oct-25	26-May-25	09-Sep-25	-135	0%
A1 - Stitching, Central Median, Parapet From A1-01 to A1-02 (Length = 45m)									
A1 - Parapet									
C.A1P.1130	Bridge A1 :- Parapet from A1-01 to A1-02 Deck A (Workfront 1) - 45m (L)	16	16	02-May-25	21-May-25	15-Apr-25	08-May-25	-114	0%
C.A1P.1190	Bridge A1 :- Parapet from A1-01 to A1-02 Deck B (Workfront 1) - 45m (L)	16	16	30-Jun-25	18-Jul-25	17-Jun-25	05-Jul-25	-114	0%
A1 - Stitching, Central Median, Parapet From A1-02 to A1-03 (Length = 45m)									
A1 - Parapet									
C.A1P.1150	Bridge A1 :- Parapet from A1-02 to A1-03 Deck A (Workfront 1) - 45m (L)	16	11	26-Mar-25 A	30-Apr-25	26-Mar-25	14-Apr-25	-114	31.25%
C.A1P.1170	Bridge A1 :- Parapet from A1-02 to A1-03 Deck B (Workfront 1) - 45m (L)	16	16	11-Jun-25	28-Jun-25	28-May-25	16-Jun-25	-114	0%
A1 - Stitching, Central Median, Parapet From A1-03 to A1-04 (Length = 45m)									
A1 - Parapet									
C.A1P.1210	Bridge A1 :- Parapet from A1-03 to A1-04 Deck B (Workfront 1) - 45m (L)	16	16	22-May-25	10-Jun-25	09-May-25	27-May-25	-114	0%
A1 - Stitching, Central Median, Parapet From A1-04 to A1-05 (Length = 45m)									
A1 - Parapet									
C.A1P.1090	Bridge A1 :- Parapet from A1-04 to A1-05 Deck A (Workfront 1) - 45m (L)	16	6	17-Feb-25 A	14-Apr-25	17-Feb-25	06-Mar-25	-114	62.5%
Bridge Works & Footbridge_Bridge A2									
Construction of Bridge A2 Deck									



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Crit Milestone
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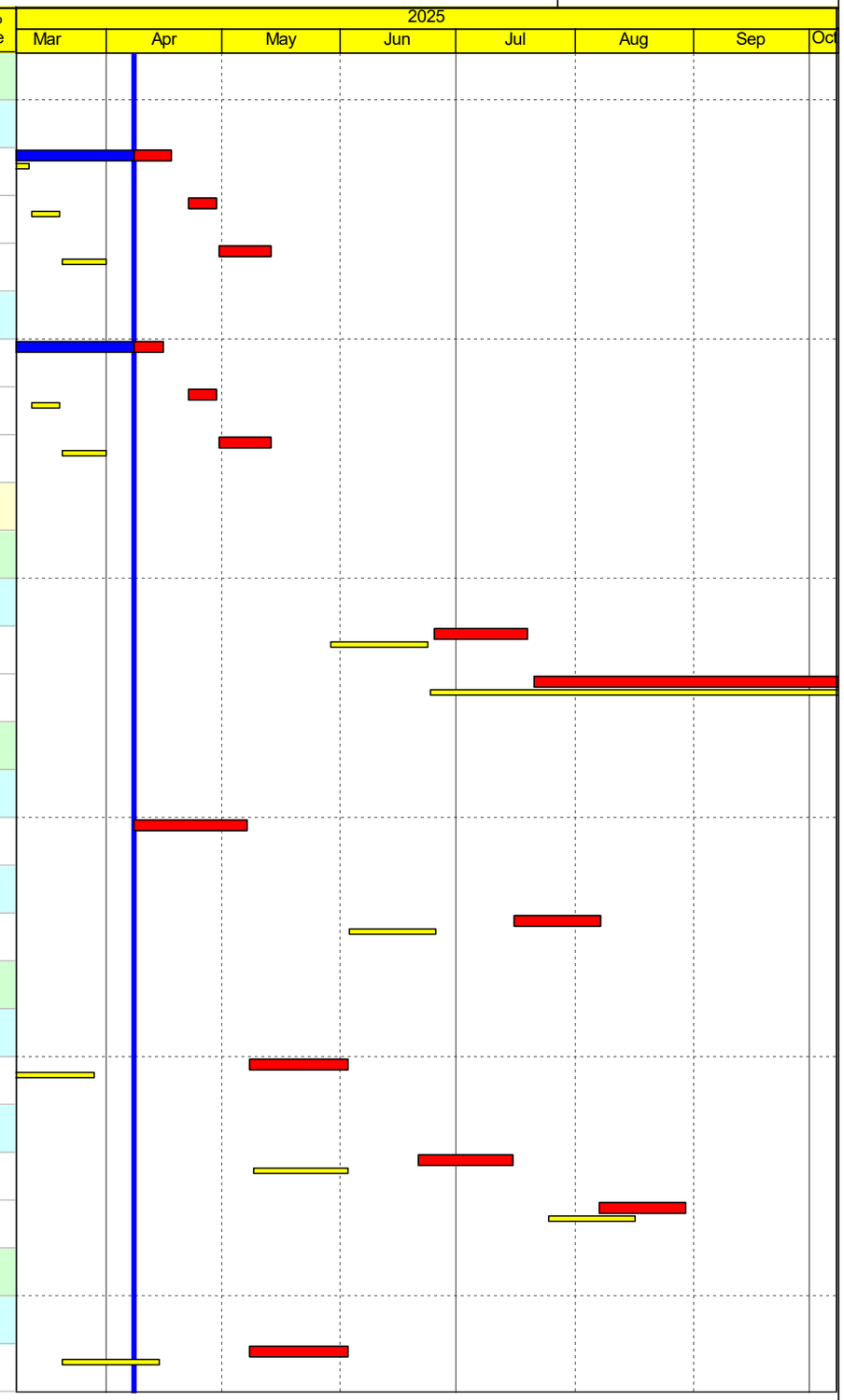
Activity ID	Activity Name	Orig. Dur.	Rem. Dur.	Start	Finish	BL Start RP10	BL Finish RP10	Total Float	Activity % Complete
Form Traveler and Segment Erection Works									
Form Traveler 1 (FT1)									
C.A2D.1310	FT1 :- Bridge A2 by FT1 at Pier A2-05) Deck A 4 pairs + key segment (11d/pair cycle time)	55	9	03-Jan-25 A	17-Apr-25	03-Jan-25	11-Mar-25	-154	83.64%
C.A2D.1510	FT1 :- Post tensioning slab tendons btw A2-04 & A2-05 (incl. achieve concrete strength)	7	7	22-Apr-25	29-Apr-25	12-Mar-25	19-Mar-25	-142	0%
C.A2D.1530	FT1 :- Dismantle FT1 at A2-05 Deck A	10	10	30-Apr-25	13-May-25	20-Mar-25	31-Mar-25	-142	0%
Form Traveler 2 (FT2)									
C.A2D.1350	FT2 :- Dismantle FT2 at A2-03 Deck B	24	7	08-Mar-25 A	15-Apr-25	08-Feb-25	07-Mar-25	-107	70.83%
C.A2D.1610	FT2 :- Post tensioning slab tendons btw A2-04 & A2-05 (incl. achieve concrete strength)	7	7	22-Apr-25	29-Apr-25	12-Mar-25	19-Mar-25	-154	0%
C.A2D.1690	FT2 :- Dismantle FT2 at A2-05 Deck B	10	10	30-Apr-25	13-May-25	20-Mar-25	31-Mar-25	-142	0%
Bridge A2 (Stitching, Central Median and Parapet)									
A2 - Stitching, Central Median, Parapet From A2-01 to A2-02 (Length = 49m)									
A2 - Stitching & Central Median									
C.A2P.1230	Bridge A2 :- Long. Stitch (Bridge A2)- btw A2-01 & A2-02 (after cast insitu decking)	21	21	25-Jun-25	19-Jul-25	29-May-25	23-Jun-25	-147	0%
C.A2P.1310	Bridge A2 :- Central Median (Bridge A2)- btw A2-01 & A2-05	90	90	21-Jul-25	05-Nov-25	24-Jun-25	09-Oct-25	-147	0%
A2 - Stitching, Central Median, Parapet From A2-02 to A2-03 (Length = 55.5m)									
A2 - Stitching & Central Median									
C.A2P.1050	Bridge A2 :- Long. Stitch (Bridge A2)- btw A2-02 & A2-03 (after FT works)	21	21	08-Apr-25	07-May-25	08-Feb-25	04-Mar-25	-158	0%
A2 - Parapet									
C.A2P.1070	Bridge A2 :- Parapet from A2-02 to A2-03 Deck A (Workfront 2) - 55.5m (L)	20	20	16-Jul-25	07-Aug-25	03-Jun-25	25-Jun-25	-158	0%
A2 - Stitching, Central Median, Parapet From A2-03 to A2-04 (Length = 55.5m)									
A2 - Stitching & Central Median									
C.A2P.1010	Bridge A2 :- Long. Stitch (Bridge A2)- btw A2-03 & A2-04 (after FT works)	21	21	08-May-25	02-Jun-25	05-Mar-25	28-Mar-25	-142	0%
A2 - Parapet									
C.A2P.1030	Bridge A2 :- Parapet from A2-03 to A2-04 Deck A (Workfront 2) - 55.5m (L)	20	20	21-Jun-25	15-Jul-25	09-May-25	02-Jun-25	-158	0%
C.A2P.1150	Bridge A2 :- Parapet from A2-03 to A2-04 Deck B (Workfront 1) - 55.5m (L)	20	20	07-Aug-25	29-Aug-25	25-Jul-25	16-Aug-25	-114	0%
A2 - Stitching, Central Median, Parapet From A2-04 to A2-05 (Length = 45m)									
A2 - Stitching & Central Median									
C.A2P.1090	Bridge A2 :- Long. Stitch (Bridge A2)- btw A2-04 & A2-05 (after FT works)	21	21	08-May-25	02-Jun-25	20-Mar-25	14-Apr-25	-158	0%



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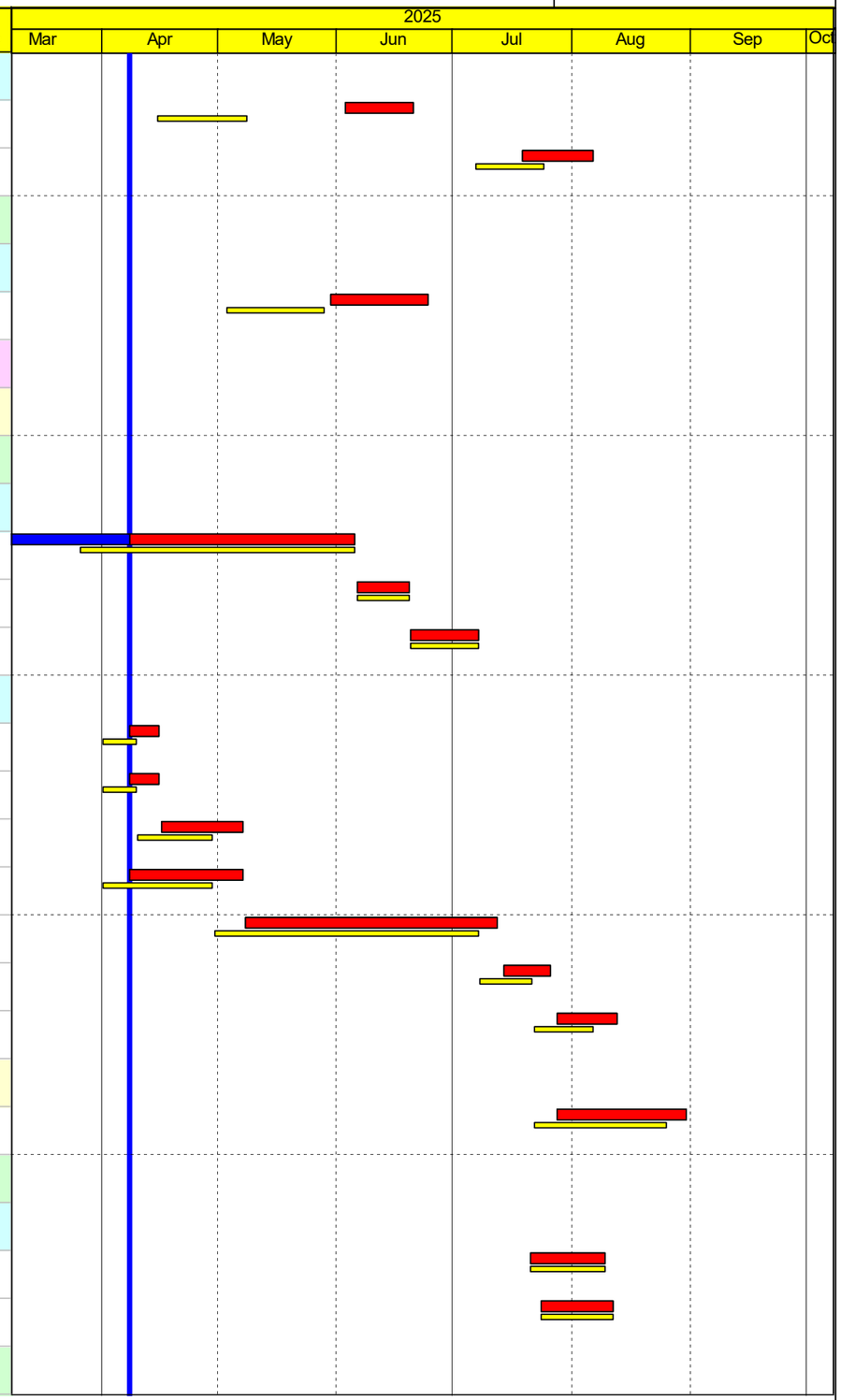
A2 - Parapet									
C.A2P.1110	Bridge A2 :- Parapet from A2-04 to A2-05 Deck A (Workfront 2) - 45m (L)	16	16	03-Jun-25	20-Jun-25	15-Apr-25	08-May-25	-158	0%
C.A2P.1170	Bridge A2 :- Parapet from A2-04 to A2-05 Deck B (Workfront 1) - 45m (L)	16	16	19-Jul-25	06-Aug-25	07-Jul-25	24-Jul-25	-114	0%
A2 - Stitching, Central Median, Parapet From A1-06 to A2-01 (Length = 45m)									
A2 - Stitching & Central Median									
C.A2P.1190	Bridge A2 :- Long. Stitch (Bridge A2)- btw A1-06 & A2-01(after cast insitu decking)	21	21	30-May-25	24-Jun-25	03-May-25	28-May-25	-147	0%
Bridge Works & Footbridge_Bridge A3									
Construction of Bridge A3 Deck									
Form Traveler and Segment Erection Works and Cast-In-Situ Decking									
Form Traveler 3 (FT3)									
C.A3D.1830	FT3 :- Bridge A3 at Pier A3-03 Deck B cast-in situ span	55	45	28-Feb-25 A	05-Jun-25	26-Mar-25	05-Jun-25	-159	18.18%
C.A3D.1850	FT3 :- Post tensioning slab tendons btw A3-02 & A3-03 Deck B (incl. achieve concrete strength)	12	12	06-Jun-25	19-Jun-25	06-Jun-25	19-Jun-25	-159	0%
C.A3D.1870	FT3 :- Removal of scaffolding at A3-03 Deck B	14	14	20-Jun-25	07-Jul-25	20-Jun-25	07-Jul-25	-159	0%
Form Traveler 4 (FT4)									
C.A3D.2030	FT4 :- Post tensioning slab tendons btw A3-01 & A3-02 (incl. achieve concrete strength)	7	7	08-Apr-25	15-Apr-25	01-Apr-25	09-Apr-25	-20	0%
C.A3D.2050	FT4 :- Post tensioning slab tendons btw A2-05 & A3-01 (incl. achieve concrete strength)	7	7	08-Apr-25	15-Apr-25	01-Apr-25	09-Apr-25	-20	0%
C.A3D.2070	FT4 :- Dismantle FT4 at A3-01 Deck B	14	14	16-Apr-25	07-May-25	10-Apr-25	29-Apr-25	-20	0%
C.A3D.2090	FT4 :- Falsework at Pier A3-01 Deck A	21	21	08-Apr-25	07-May-25	01-Apr-25	29-Apr-25	-176	0%
C.A3D.2110	FT4 :- Bridge A3 Pier A3-01 Deck A cast-in situ span	55	55	08-May-25	12-Jul-25	30-Apr-25	07-Jul-25	-176	0%
C.A3D.2130	FT4 :- Post tensioning slab tendons btw A3-01 & A3-02 Deck A (incl. achieve concrete strength)	12	12	14-Jul-25	26-Jul-25	08-Jul-25	21-Jul-25	-176	0%
C.A3D.2150	FT4 :- Removal of scaffolding at A3-01 Deck A	14	14	28-Jul-25	12-Aug-25	22-Jul-25	06-Aug-25	-160	0%
Bridge A3 (Stitching, Central Median and Parapet)									
C.A3ET.1010	Bridge A3 :- Apply external tendon stressing (Bridge A3)	30	30	28-Jul-25	30-Aug-25	22-Jul-25	25-Aug-25	-176	0%
A3 - Stitching, Central Median, Parapet From A3-04 to A3-05 (Length = 52m)									
A3 - Parapet									
C.A3P.1130	Bridge A3 :- Parapet from A3-04 to A3-05 Deck A (Workfront 3) - 52m (L)	18	18	21-Jul-25	09-Aug-25	21-Jul-25	09-Aug-25	-142	0%
C.A3P.1230	Bridge A3 :- Parapet from A3-04 to A3-05 Deck B (Workfront 4) - 52m (L)	16	16	24-Jul-25	11-Aug-25	24-Jul-25	11-Aug-25	-143	0%
A3 - Stitching, Central Median, Parapet From A3-05 to A3-06 (Length = 42m)									



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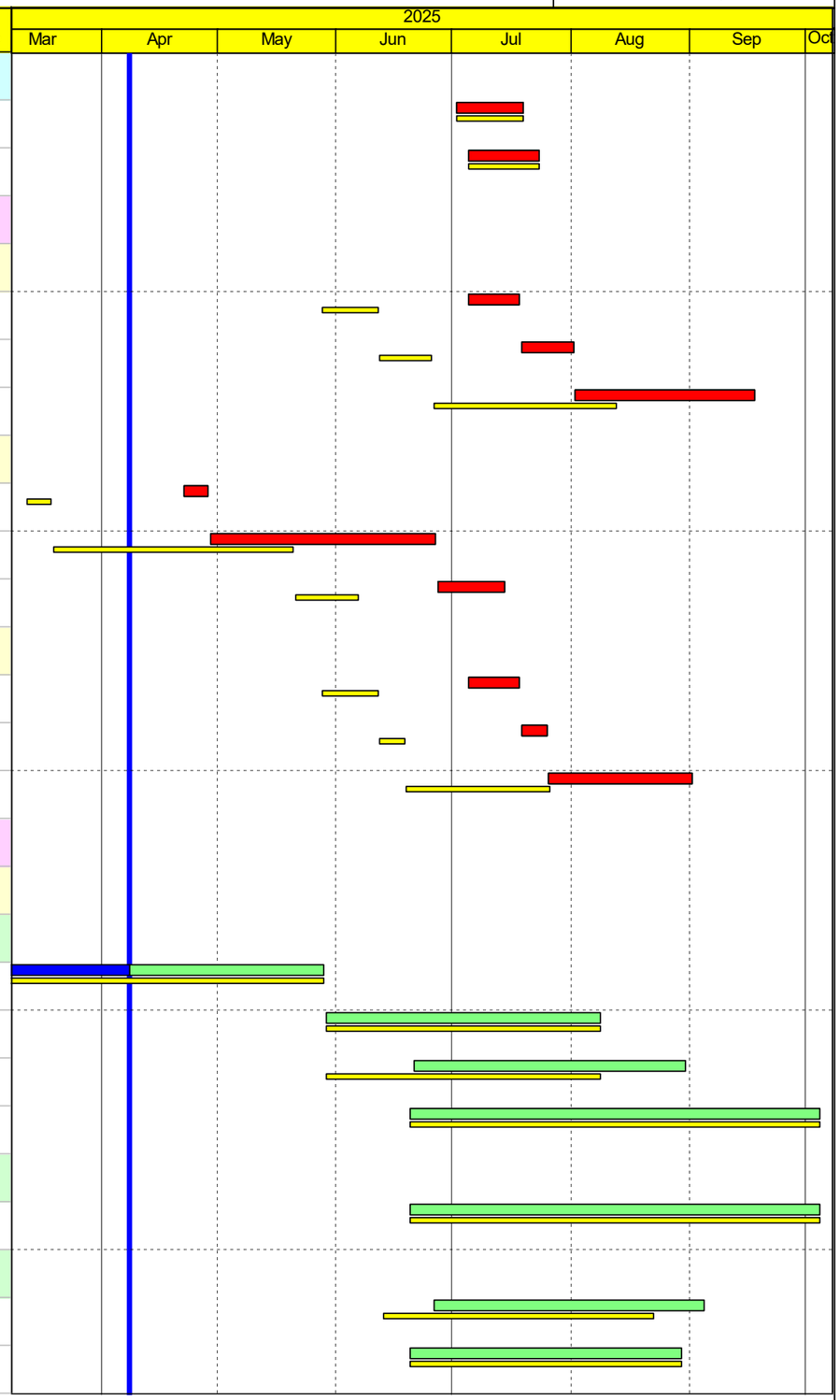
A3 - Parapet									
C.A3P.1150	Bridge A3 :- Parapet from A3-05 to A3-06 Deck A (Workfront 3) - 42m (L)	16	16	02-Jul-25	19-Jul-25	02-Jul-25	19-Jul-25	-142	0%
C.A3P.1250	Bridge A3 :- Parapet from A3-05 to A3-06 Deck B (Workfront 4) - 42m (L)	16	16	05-Jul-25	23-Jul-25	05-Jul-25	23-Jul-25	-143	0%
G - Stitching, Central Median, Parapet Bridge Works & Footbridge_Bridge G									
Bridge G Deck From Piers G01 to G02 (mid May start)									
C.G1D.1010	Bridge G Deck :- Bridge G (G-01 to G-02)-Falsework	12	12	05-Jul-25	18-Jul-25	28-May-25	11-Jun-25	-154	0%
C.G1D.1030	Bridge G Deck :- Installation of bearing (G-01 to G-02)	12	12	19-Jul-25	01-Aug-25	12-Jun-25	25-Jun-25	-154	0%
C.G1D.1050	Bridge G Deck :- Bridge G (G-01 to G-02)-Bridge deck + Curing (21d)	40	40	02-Aug-25	17-Sep-25	26-Jun-25	12-Aug-25	-154	0%
Bridge G Deck From Piers G02 to G05									
C.G1D.1090	Bridge G Deck :- Bridge G (G-02 to G-05)-Falsework	6	6	22-Apr-25	28-Apr-25	12-Mar-25	18-Mar-25	-154	0%
C.G1D.1110	Bridge G Deck :- Bridge G (G-02 to G-05)-Bridge deck + Curing (21d)	48	48	29-Apr-25	26-Jun-25	19-Mar-25	20-May-25	-154	0%
C.G1D.1130	Bridge G Deck :- Bridge G (G-02 to G-05)-removal of scaffolding	14	14	27-Jun-25	14-Jul-25	21-May-25	06-Jun-25	-98	0%
Bridge G Deck From Piers G05 to G06									
C.G1D.1150	Bridge G Deck :- Bridge G (G-05 to G-06)-Falsework	12	12	05-Jul-25	18-Jul-25	28-May-25	11-Jun-25	-154	0%
C.G1D.1170	Bridge G Deck :- Installation of bearing for G-06	6	6	19-Jul-25	25-Jul-25	12-Jun-25	18-Jun-25	-140	0%
C.G1D.1190	Bridge G Deck :- Bridge G (G-05 to G-06)-Bridge deck + Curing (21d)	32	32	26-Jul-25	01-Sep-25	19-Jun-25	26-Jul-25	-140	0%
Bridge Works & Footbridge_Construction of Bridge Furniture									
Other Bridge Deck Works (NB, Gantry, Lighting, Paving, Rd. Mark, TCSS/TDS, Drainage & Landscape)									
Last Insitu Bays Parapets, Noise Barriers and Sign Gantry Works									
C.NB-1030	Fabrication & Delivery of Sign Gantry for Bridge A1, A2, A3 & Bridge F	120	39	26-Sep-24 A	28-May-25	26-Sep-24	28-May-25	57	67.5%
C.NB-1050	Sign Gantry & Noise Barriers NB21, NB22 for Bridge A1	60	60	29-May-25	08-Aug-25	29-May-25	08-Aug-25	57	0%
C.NB-1070	Sign Gantry & Noise Barrier NB22 for Bridge A2	60	60	21-Jun-25	30-Aug-25	29-May-25	08-Aug-25	38	0%
C.NB-1110	Noise Barrier NB 48, 92, 93 for Bridge F	90	90	20-Jun-25	04-Oct-25	20-Jun-25	04-Oct-25	9	0%
Road Lighting and Deck Void Lighting									
C.LG-1090	Remaining Road Lighting for Bridge F	90	90	20-Jun-25	04-Oct-25	20-Jun-25	04-Oct-25	9	0%
Paving and Road Markings									
C.PR-1010	Paving & Road Marking works for Bridge A1	60	60	26-Jun-25	04-Sep-25	13-Jun-25	22-Aug-25	34	0%
C.PR-1070	Paving & Road Marking works for Bridge F4	60	60	20-Jun-25	29-Aug-25	20-Jun-25	29-Aug-25	39	0%



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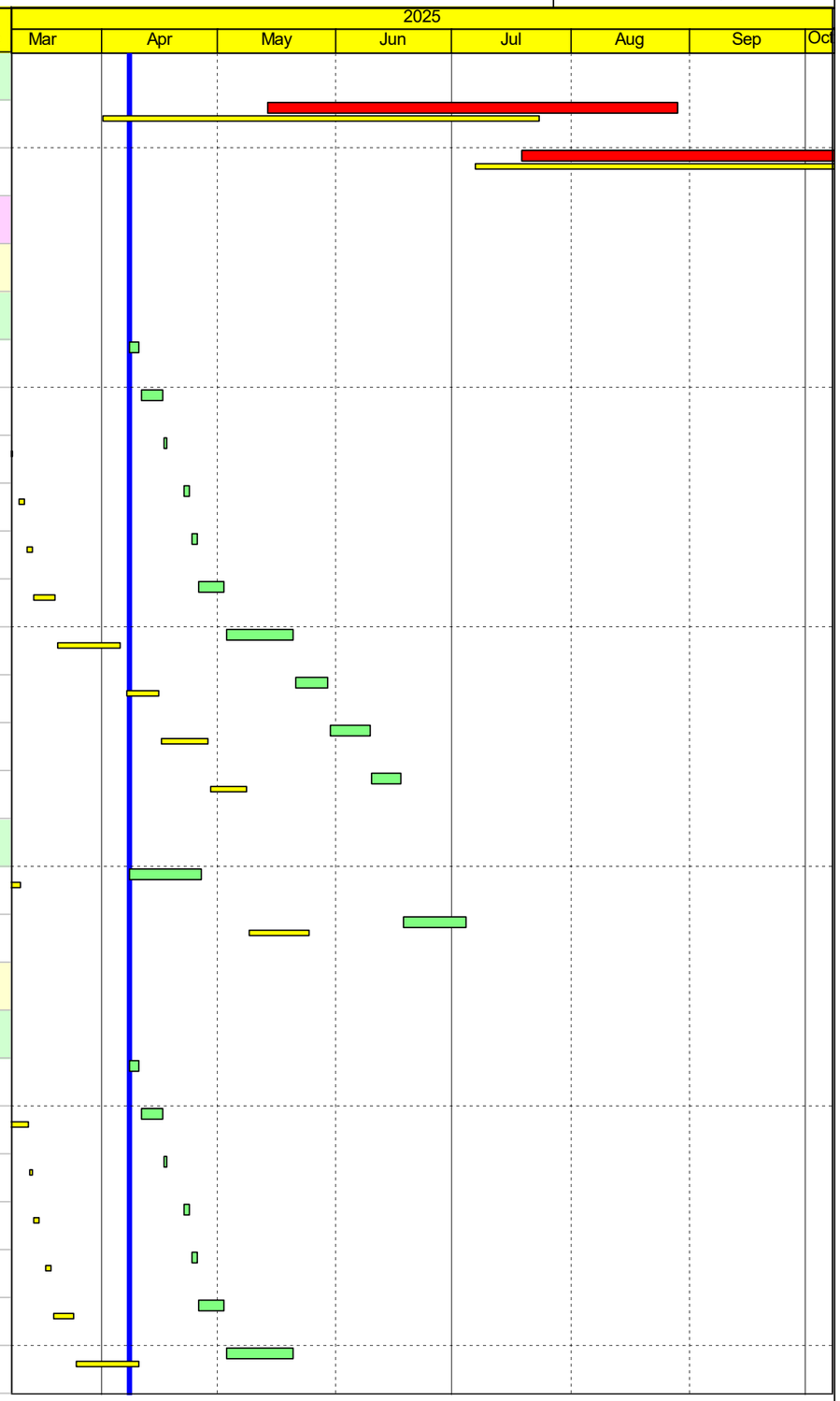
Road Works and Drainage Works									
C.DW-1010	Road works & Drainage works (Bridge A2)	90	90	14-May-25	28-Aug-25	01-Apr-25	23-Jul-25	-25	0%
C.DW-1030	Road works & Drainage works (Bridge A3)	90	90	19-Jul-25	04-Nov-25	07-Jul-25	21-Oct-25	-80	0%
Bridge Works & Footbridge_Construction of Outfall at Bridge Area									
Outfall 8504									
Outfall 8504 Construction									
OLF.8504-110	Outfall 8504 :- Mobilize & Setting Out	3	3	08-Apr-25	10-Apr-25	27-Feb-25	01-Mar-25	87	0%
OLF.8504-130	Outfall 8504 :- Temporary Cofferdam by Layers of Concrete Blocks	5	5	11-Apr-25	16-Apr-25	03-Mar-25	07-Mar-25	87	0%
OLF.8504-150	Outfall 8504 :- Remove Existing Grasscrete	1	1	17-Apr-25	17-Apr-25	08-Mar-25	08-Mar-25	87	0%
OLF.8504-170	Outfall 8504 :- Open Cut Excavation to Founding Level	2	2	22-Apr-25	23-Apr-25	10-Mar-25	11-Mar-25	87	0%
OLF.8504-190	Outfall 8504 :- Install Geotextile,rockfill & concrete blinding	2	2	24-Apr-25	25-Apr-25	12-Mar-25	13-Mar-25	87	0%
OLF.8504-210	Outfall 8504 :- Base Slab - Erect Formworks	5	5	26-Apr-25	02-May-25	14-Mar-25	19-Mar-25	87	0%
OLF.8504-230	Outfall 8504 :- Base Slab -Rebars Fixing & Cast	14	14	03-May-25	20-May-25	20-Mar-25	05-Apr-25	87	0%
OLF.8504-250	Outfall 8504 :- Walls -Erect Scaffolding	8	8	21-May-25	29-May-25	07-Apr-25	15-Apr-25	87	0%
OLF.8504-270	Outfall 8504 :- Walls - Rebars Fixing	8	8	30-May-25	09-Jun-25	16-Apr-25	28-Apr-25	87	0%
OLF.8504-290	Outfall 8504 :- Walls - Erect Formworks & Cast	7	7	10-Jun-25	17-Jun-25	29-Apr-25	08-May-25	87	0%
Outfall 8504 Drainage and Reinstatement									
OLF.8504-310	Outfall 8504 :- Pipe laying DN600 Precast Pipe & Seal Opening	14	14	08-Apr-25	26-Apr-25	22-Feb-25	10-Mar-25	128	0%
OLF.8504-330	Outfall 8504 :- Backfill & Reinstate Feature Slope & Grasscrete	14	14	18-Jun-25	04-Jul-25	09-May-25	24-May-25	87	0%
Outfall 8511									
Outfall 8511 Structure									
OLF.8511-110	Outfall 8511 :- Mobilize & Setting Out	3	3	08-Apr-25	10-Apr-25	04-Mar-25	06-Mar-25	87	0%
OLF.8511-130	Outfall 8511 :- Temporary Cofferdam by Layers of Concrete Blocks	5	5	11-Apr-25	16-Apr-25	07-Mar-25	12-Mar-25	87	0%
OLF.8511-150	Outfall 8511 :- Remove Existing Grasscrete	1	1	17-Apr-25	17-Apr-25	13-Mar-25	13-Mar-25	87	0%
OLF.8511-170	Outfall 8511 :- Open Cut Excavation to Founding Level	2	2	22-Apr-25	23-Apr-25	14-Mar-25	15-Mar-25	87	0%
OLF.8511-190	Outfall 8511 :- Install Geotextile,rockfill & concrete blinding	2	2	24-Apr-25	25-Apr-25	17-Mar-25	18-Mar-25	87	0%
OLF.8511-210	Outfall 8511 :- Base Slab - Erect Formworks	5	5	26-Apr-25	02-May-25	19-Mar-25	24-Mar-25	87	0%
OLF.8511-230	Outfall 8511 :- Base Slab -Rebars Fixing & Cast	14	14	03-May-25	20-May-25	25-Mar-25	10-Apr-25	87	0%



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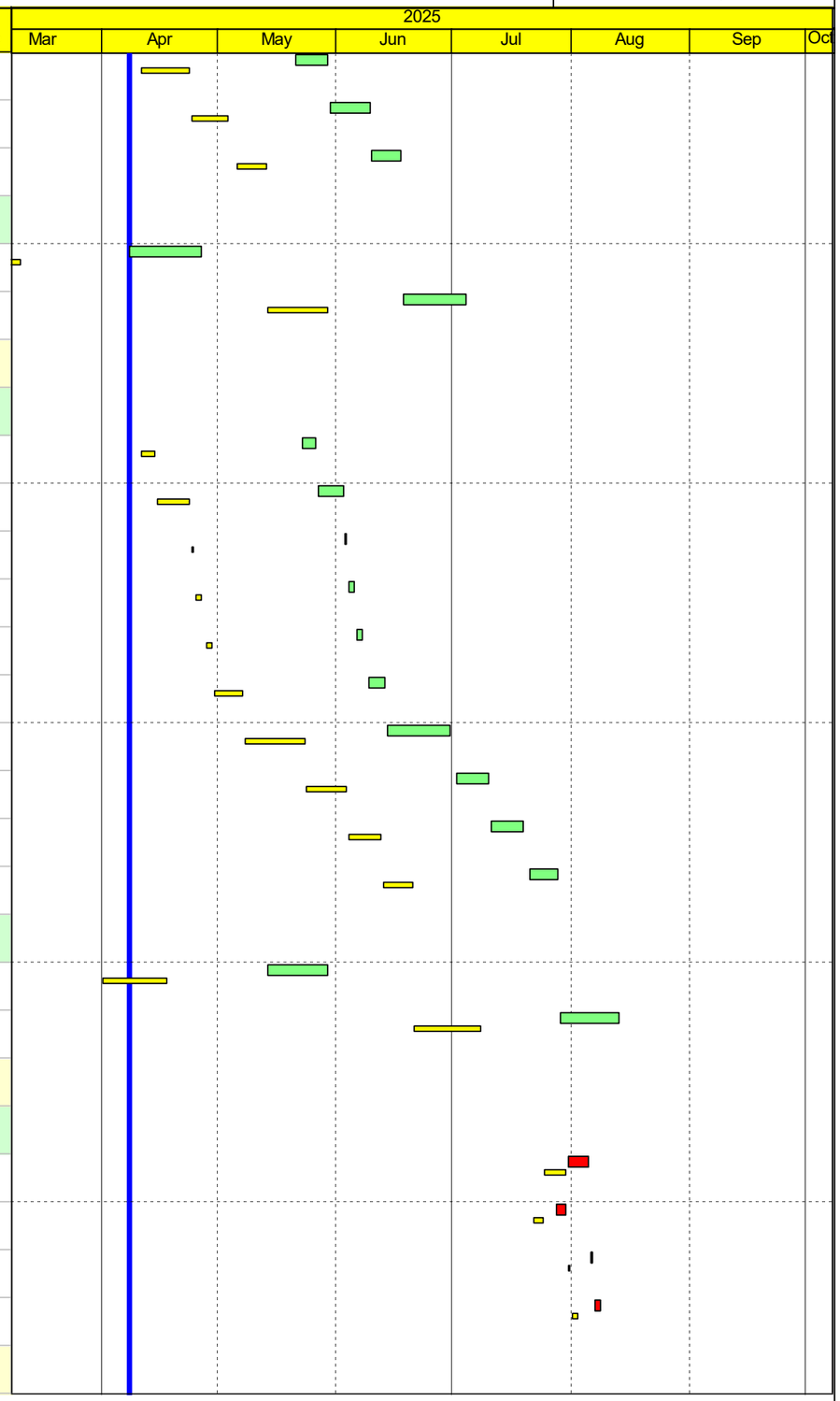
OLF.8511-250	Outfall 8511 :- Walls -Erect Scaffolding	8	8	21-May-25	29-May-25	11-Apr-25	23-Apr-25	87	0%
OLF.8511-270	Outfall 8511 :- Walls - Rebars Fixing	8	8	30-May-25	09-Jun-25	24-Apr-25	03-May-25	87	0%
OLF.8511-290	Outfall 8511 :- Walls - Erect Formworks & Cast	7	7	10-Jun-25	17-Jun-25	06-May-25	13-May-25	87	0%
Outfall 8511 Drainage and Reinstatement									
OLF.8511-310	Outfall 8511 :- Pipe laying DN450 Precast Pipe & Seal Opening	14	14	08-Apr-25	26-Apr-25	22-Feb-25	10-Mar-25	128	0%
OLF.8511-330	Outfall 8511 :- Backfill & Reinstate Feature Slope & Grasscrete	14	14	18-Jun-25	04-Jul-25	14-May-25	29-May-25	87	0%
Outfall 8524A									
Outfall 8524A Structure									
OLF.8524-110	Outfall 8524A :- Mobilize & Setting Out	3	3	23-May-25	26-May-25	11-Apr-25	14-Apr-25	53	0%
OLF.8524-130	Outfall 8524A :- Temporary Cofferdam by Layers of Concrete Blocks	5	5	27-May-25	02-Jun-25	15-Apr-25	23-Apr-25	53	0%
OLF.8524-150	Outfall 8524A :- Remove Existing Grasscrete	1	1	03-Jun-25	03-Jun-25	24-Apr-25	24-Apr-25	53	0%
OLF.8524-170	Outfall 8524A :- Open Cut Excavation to Founding Level	2	2	04-Jun-25	05-Jun-25	25-Apr-25	26-Apr-25	53	0%
OLF.8524-190	Outfall 8524A :- Install Geotextile,rockfill & concrete blinding	2	2	06-Jun-25	07-Jun-25	28-Apr-25	29-Apr-25	53	0%
OLF.8524-210	Outfall 8524A :- Base Slab - Erect Formworks	5	5	09-Jun-25	13-Jun-25	30-Apr-25	07-May-25	53	0%
OLF.8524-230	Outfall 8524A :- Base Slab -Rebars Fixing & Cast	14	14	14-Jun-25	30-Jun-25	08-May-25	23-May-25	53	0%
OLF.8524-250	Outfall 8524A :- Walls -Erect Scaffolding	8	8	02-Jul-25	10-Jul-25	24-May-25	03-Jun-25	53	0%
OLF.8524-270	Outfall 8524A :- Walls - Rebars Fixing	8	8	11-Jul-25	19-Jul-25	04-Jun-25	12-Jun-25	53	0%
OLF.8524-290	Outfall 8524A :- Walls - Erect Formworks & Cast	7	7	21-Jul-25	28-Jul-25	13-Jun-25	20-Jun-25	53	0%
Outfall 8524A Drainage and Reinstatement									
OLF.8524-310	Outfall 8524A :- Pipe laying DN600 Precast Pipe & Seal Opening	14	14	14-May-25	29-May-25	01-Apr-25	17-Apr-25	102	0%
OLF.8524-330	Outfall 8524A :- Backfill & Reinstate Feature Slope & Grasscrete	14	14	29-Jul-25	13-Aug-25	21-Jun-25	08-Jul-25	53	0%
Outfall 7.73									
Outfall 7.73 Structure									
OLF.7.73-100	Outfall 7.73 :- Temporary Cofferdam by Layers of Concrete Blocks	5	5	31-Jul-25	05-Aug-25	25-Jul-25	30-Jul-25	-10	0%
OLF.7.73-120	Outfall 7.73 :- Mobilize & Setting Out	3	3	28-Jul-25	30-Jul-25	22-Jul-25	24-Jul-25	-10	0%
OLF.7.73-140	Outfall 7.73 :- Remove Existing Grasscrete	1	1	06-Aug-25	06-Aug-25	31-Jul-25	31-Jul-25	-10	0%
OLF.7.73-160	Outfall 7.73 :- Open Cut Excavation to Founding Level	2	2	07-Aug-25	08-Aug-25	01-Aug-25	02-Aug-25	-10	0%
Outfall 7.63									



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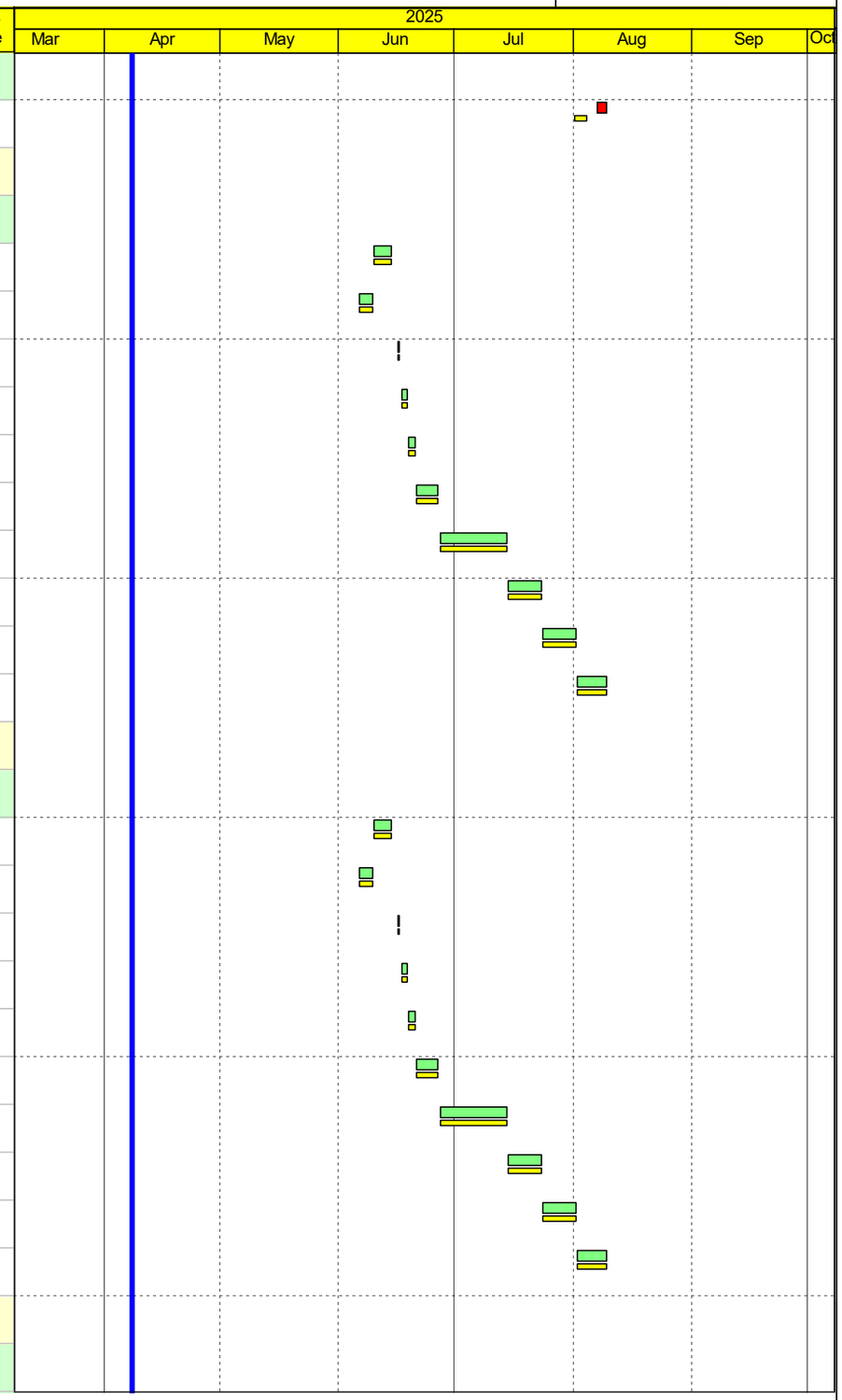
Outfall 7.63 Structure									
OLF.7.73-360	Outfall 7.63 :- Mobilize & Setting Out	3	3	07-Aug-25	09-Aug-25	01-Aug-25	04-Aug-25	-10	0%
Outfall 3002									
Outfall 3002 Structure									
OLF.3002-100	Outfall 3002 :- Temporary Cofferdam by Layers of Concrete Blocks	5	5	10-Jun-25	14-Jun-25	10-Jun-25	14-Jun-25	28	0%
OLF.3002-120	Outfall 3002 :- Mobilize & Setting Out	3	3	06-Jun-25	09-Jun-25	06-Jun-25	09-Jun-25	28	0%
OLF.3002-140	Outfall 3002 :- Remove Existing Grasscrete	1	1	16-Jun-25	16-Jun-25	16-Jun-25	16-Jun-25	28	0%
OLF.3002-160	Outfall 3002 :- Open Cut Excavation to Founding Level	2	2	17-Jun-25	18-Jun-25	17-Jun-25	18-Jun-25	28	0%
OLF.3002-180	Outfall 3002 :- Install Geotextile,rockfill & concrete blinding	2	2	19-Jun-25	20-Jun-25	19-Jun-25	20-Jun-25	28	0%
OLF.3002-200	Outfall 3002 :- Base Slab - Erect Formworks	5	5	21-Jun-25	26-Jun-25	21-Jun-25	26-Jun-25	28	0%
OLF.3002-220	Outfall 3002 :- Base Slab -Rebars Fixing & Cast	14	14	27-Jun-25	14-Jul-25	27-Jun-25	14-Jul-25	28	0%
OLF.3002-240	Outfall 3002 :- Walls -Erect Scaffolding	8	8	15-Jul-25	23-Jul-25	15-Jul-25	23-Jul-25	28	0%
OLF.3002-260	Outfall 3002 :- Walls - Rebars Fixing	8	8	24-Jul-25	01-Aug-25	24-Jul-25	01-Aug-25	28	0%
OLF.3002-280	Outfall 3002 :- Walls - Erect Formworks & Cast	7	7	02-Aug-25	09-Aug-25	02-Aug-25	09-Aug-25	28	0%
Outfall 4001									
Outfall 4001 Structure									
OLF.4001-100	Outfall 4001 :- Temporary Cofferdam by Layers of Concrete Blocks	5	5	10-Jun-25	14-Jun-25	10-Jun-25	14-Jun-25	28	0%
OLF.4001-120	Outfall 4001 :- Mobilize & Setting Out	3	3	06-Jun-25	09-Jun-25	06-Jun-25	09-Jun-25	28	0%
OLF.4001-140	Outfall 4001 :- Remove Existing Grasscrete	1	1	16-Jun-25	16-Jun-25	16-Jun-25	16-Jun-25	28	0%
OLF.4001-160	Outfall 4001 :- Open Cut Excavation to Founding Level	2	2	17-Jun-25	18-Jun-25	17-Jun-25	18-Jun-25	28	0%
OLF.4001-180	Outfall 4001 :- Install Geotextile,rockfill & concrete blinding	2	2	19-Jun-25	20-Jun-25	19-Jun-25	20-Jun-25	28	0%
OLF.4001-200	Outfall 4001 :- Base Slab - Erect Formworks	5	5	21-Jun-25	26-Jun-25	21-Jun-25	26-Jun-25	28	0%
OLF.4001-220	Outfall 4001 :- Base Slab -Rebars Fixing & Cast	14	14	27-Jun-25	14-Jul-25	27-Jun-25	14-Jul-25	28	0%
OLF.4001-240	Outfall 4001 :- Walls -Erect Scaffolding	8	8	15-Jul-25	23-Jul-25	15-Jul-25	23-Jul-25	28	0%
OLF.4001-260	Outfall 4001 :- Walls - Rebars Fixing	8	8	24-Jul-25	01-Aug-25	24-Jul-25	01-Aug-25	28	0%
OLF.4001-280	Outfall 4001 :- Walls - Erect Formworks & Cast	7	7	02-Aug-25	09-Aug-25	02-Aug-25	09-Aug-25	28	0%
Outfall 5001									
Outfall 5001 Construction									



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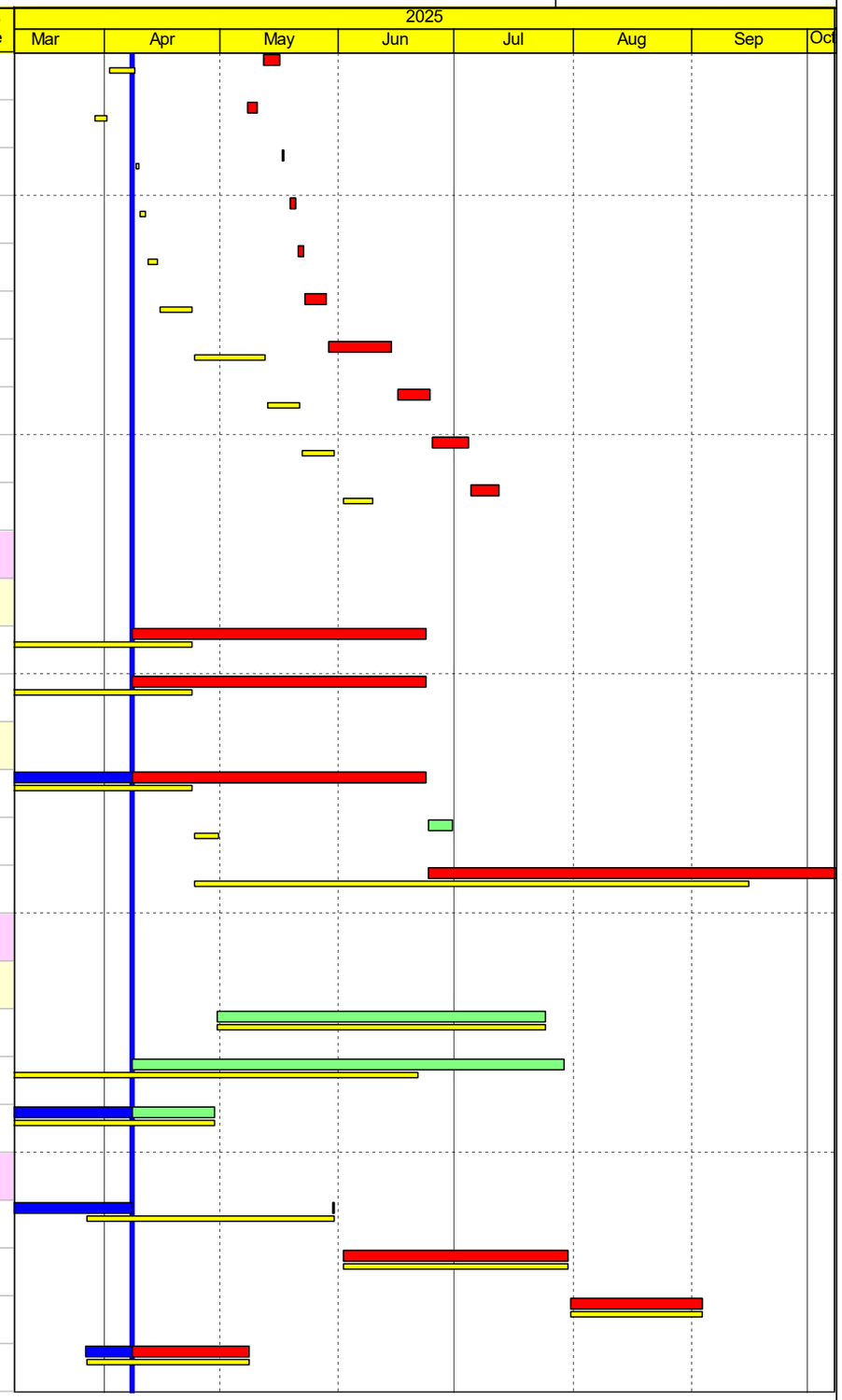
OLF.5001-100	Outfall 5001 :- Temporary Cofferdam by Layers of Concrete Blocks	5	5	12-May-25	16-May-25	02-Apr-25	08-Apr-25	-27	0%
OLF.5001-120	Outfall 5001 :- Mobilize & Setting Out	3	3	08-May-25	10-May-25	29-Mar-25	01-Apr-25	-27	0%
OLF.5001-140	Outfall 5001 :- Remove Existing Grasscrete	1	1	17-May-25	17-May-25	09-Apr-25	09-Apr-25	-27	0%
OLF.5001-160	Outfall 5001 :- Open Cut Excavation to Founding Level	2	2	19-May-25	20-May-25	10-Apr-25	11-Apr-25	-27	0%
OLF.5001-180	Outfall 5001 :- Install Geotextile,rockfill & concrete blinding	2	2	21-May-25	22-May-25	12-Apr-25	14-Apr-25	-27	0%
OLF.5001-200	Outfall 5001 :- Base Slab - Erect Formworks	5	5	23-May-25	28-May-25	15-Apr-25	23-Apr-25	-27	0%
OLF.5001-220	Outfall 5001 :- Base Slab -Rebars Fixing & Cast	14	14	29-May-25	14-Jun-25	24-Apr-25	12-May-25	-27	0%
OLF.5001-240	Outfall 5001 :- Walls -Erect Scaffolding	8	8	16-Jun-25	24-Jun-25	13-May-25	21-May-25	-27	0%
OLF.5001-260	Outfall 5001 :- Walls - Rebars Fixing	8	8	25-Jun-25	04-Jul-25	22-May-25	30-May-25	-27	0%
OLF.5001-280	Outfall 5001 :- Walls - Erect Formworks & Cast	7	7	05-Jul-25	12-Jul-25	02-Jun-25	09-Jun-25	-27	0%
Bridge Works & Footbridge_Footbridge F4									
Construction of Footbridge F4 Substructure									
C.F4S.1010	FB_F4 (Substruct) :- Footbridge F4-01 (1no. abutment, 60d/abutment,1no. workfront)	60	60	08-Apr-25	23-Jun-25	08-Feb-25	23-Apr-25	-136	0%
C.F4S.1030	FB_F4 (Substruct) :- Footbridge F4-02 (1no. abutment, 60d/abutment,1no. workfront)	60	60	08-Apr-25	23-Jun-25	08-Feb-25	23-Apr-25	-144	0%
Canopy, SMS, Area for CLP, CLP Cable Diversion Works at Footbridge F4 Deck									
C.F4D.1130	FB_F4 (Deck) :- Construction of view platform incl. canopy	60	60	04-Jan-25 A	23-Jun-25	08-Feb-25	23-Apr-25	-16	0%
C.F4D.1150	FB_F4 (Deck) :- Install Structural Monitoring System (SMS) + T&C of SMS	6	6	24-Jun-25	30-Jun-25	24-Apr-25	30-Apr-25	90	0%
C.F4D.1170	FB_F4 (Deck) :- Installation of F4 Canopy railing & lighting	120	120	24-Jun-25	14-Nov-25	24-Apr-25	15-Sep-25	-136	0%
Bridge Works & Footbridge_Retaining Walls at Portion C									
FW14, FW16, FW24, FW27, FW18 (at Portion C)									
C.FW.3010	Port.C_FW :- New feature FW14 L-Shape Retaining wall~34m (near Bridge F)	70	70	30-Apr-25	24-Jul-25	30-Apr-25	24-Jul-25	70	0%
C.FW.3030	Port.C_FW :- New feature FW16 L-Shape Retaining wall~34m (near Bridge F)	90	90	08-Apr-25	29-Jul-25	01-Mar-25	21-Jun-25	66	0%
C.FW.3070	Port.C_FW :- New feature FW27 L-Shape Retaining wall~70m (near Bridge F)	53	16	10-Aug-24 A	29-Apr-25	10-Aug-24	29-Apr-25	70	69.81%
Bridge Works & Footbridge_U-trough 1- U-trough 4									
C.UT1.1010	U-trough 1 & near by road works & FW18 (after Bored pile G-06)	50	1	08-Feb-25 A	30-May-25	27-Mar-25	30-May-25	-208	98%
C.UT1.1030	U-trough 1 & near by road works & FW18 (after Bored pile G-06)	50	50	02-Jun-25	30-Jul-25	02-Jun-25	30-Jul-25	-195	0%
C.UT1.1050	U-trough 1 & near by road works & FW18 (after Bored pile G-06)	30	30	31-Jul-25	03-Sep-25	31-Jul-25	03-Sep-25	-195	0%
C.UT2.1050	U-trough 3 & near by road works (after F4-01 H pile Northbank of Ng Tung River) Stage 1 of 2	31	22	27-Mar-25 A	08-May-25	27-Mar-25	08-May-25	-168	29.03%



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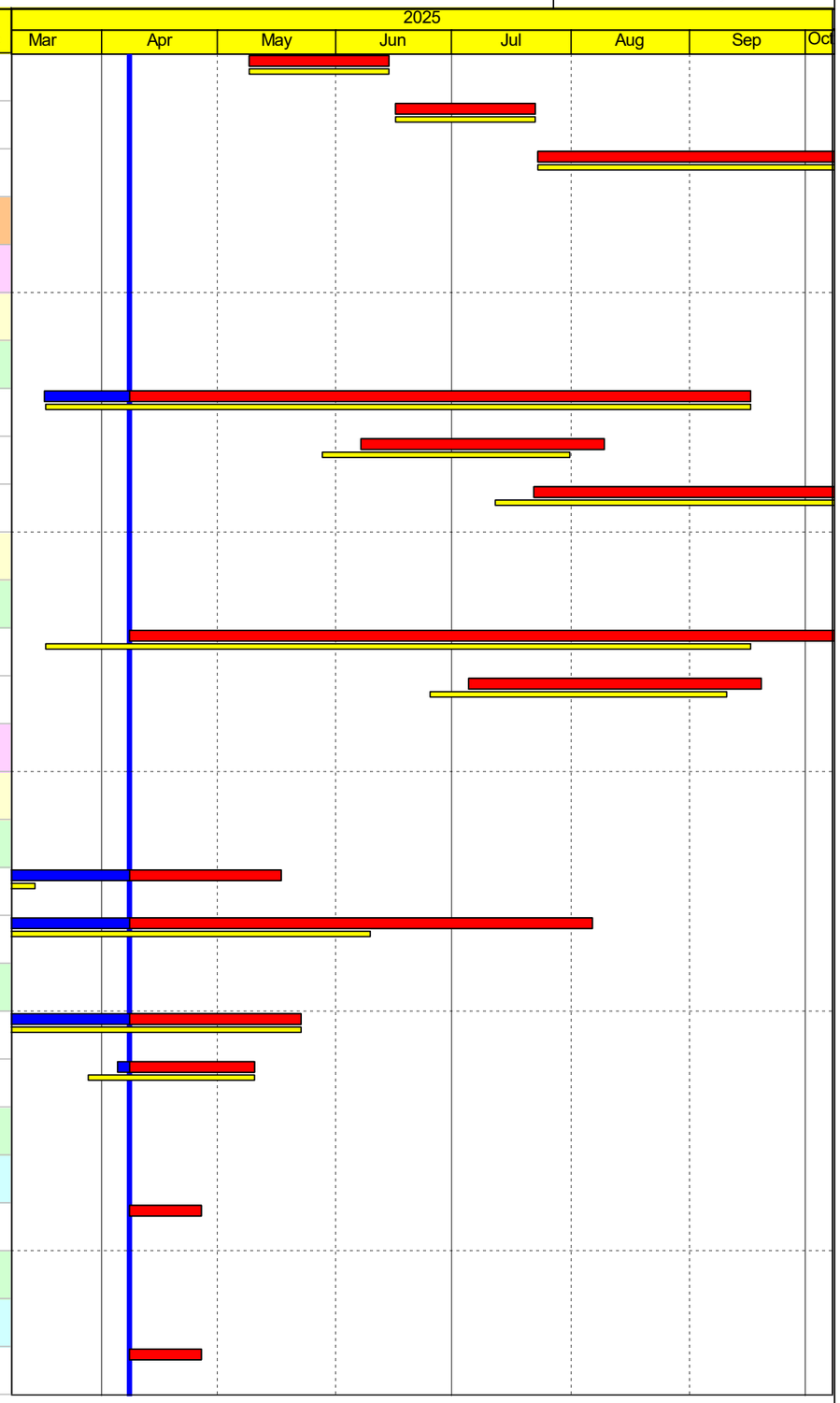
C.UT3.1010	U-trough 3 & near by road works (after F4-01 H pile Northbank of Ng Tung River) Stage 2 of 2	31	31	09-May-25	14-Jun-25	09-May-25	14-Jun-25	-168	0%
C.UT3.1030	U-trough 3 & near by road works (after F4-01 H pile Northbank of Ng Tung River)	31	31	16-Jun-25	22-Jul-25	16-Jun-25	22-Jul-25	-168	0%
C.UT4.1010	U-trough 4 & near by road works (Resequence)(after F4-02 Southbank of Ng Tung River)	70	70	23-Jul-25	14-Oct-25	23-Jul-25	14-Oct-25	-168	0%
Construction_Civil Works around Interchange									
Interchange Area_TTAs at Proximity of Interchange (Bet. Ma Sik Rd and Sha Tau Kok Road)									
TTA 2.5 - Sha Tau Kok Road (Southbound)									
TTA 2.5 - Sha Tau Kok Road (Southbound)									
IC-TA.1350	TTA 2.5 :- Design, submit, processing & approval (TMLG & TTA/RA)	150	132	17-Mar-25 A	16-Sep-25*	17-Mar-25	16-Sep-25	-227	12%
IC-TA.1370	TTA 2.5 (S)(N) :- Trench Excavation, Drainage & MH at STK Rd Part 1/2 - SE22 & SR08	54	54	07-Jun-25	09-Aug-25	28-May-25	31-Jul-25	-301	0%
IC-TA.1430	TTA 2.5 (S)(N) :- MEP Cable ducts, Draw Pits, Pillars, Cabling at STK Rd - SE21 & SR07 AND SE22 & SR08	103	103	22-Jul-25	21-Nov-25	12-Jul-25	12-Nov-25	-293	0%
TTA 3 - Sha Tau Kok Road (Northbound) & KD3 incl. SR07 & 08									
TTA 3 - Sha Tau Kok Road (Northbound) & KD3 incl. SR07 & 08									
IC-TA.1490	TTA 3 :- Design, submit, processing & approval (TMLG & TTA/RA)	150	150	08-Apr-25	09-Oct-25*	17-Mar-25	16-Sep-25	-232	0%
IC-TA.1510	TTA 3 :- Remaining UU Works at Sha Tau Kok Road (Northbound & Southbound incl. SR07 & SR08)	66	66	05-Jul-25	19-Sep-25	25-Jun-25	10-Sep-25	-242	0%
Interchange Area_Footbridge F6 Cum Cycle Track									
Lift Tower & Footbridge F6 (Portion J)									
Lift Tower & Footbridge F6 (Portion J) - Design and Procurement									
IC-F6.1690	Lift Tower/F6 (Port.J) :- MIC Lifts - Procurement, Fabrication & Delivery	121	30	07-Oct-24 A	17-May-25	07-Oct-24	14-Mar-25	-194	75.21%
IC-F6.1810	Lift Tower/F6 (Port.J) :- Procurement of lighting items & E&M items	144	97	08-Jan-25 A	06-Aug-25	08-Jan-25	09-Jun-25	-311	32.64%
Lift Tower & Footbridge F6 (Portion J) - Steel Structure Fabrication and Delivery									
IC-F6.1590	Lift Tower/F6 (Port.J) :- Fabrication & delivery of steel element & canopy for Footbridge F6	99	34	29-Jun-24 A	22-May-25	29-Jun-24	22-May-25	-278	65.66%
IC-F6.1730	Lift Tower/F6 (Port.J) :- S960 Steel Deck Footbridge Delivery on site (Deck A, B, C & D)	32	24	05-Apr-25 A	10-May-25	28-Mar-25	10-May-25	-299	25%
Lift Tower & Footbridge F6 (Portion J) - Part A (Cable D)									
Part A Pier/Column									
IC-F6.1470	Construction of F6 Part A C01 Bearing (for Steel Deck A)	14	14	08-Apr-25	26-Apr-25	08-Feb-25	24-Feb-25	-244	0%
Lift Tower & Footbridge F6 (Portion J) - Part B (Some part After Cable D)									
Part B Pier/Column									
IC-F6.2270	Construction of F6 Part B P07 Bearing	14	14	08-Apr-25	26-Apr-25	08-Feb-25	24-Feb-25	-244	0%



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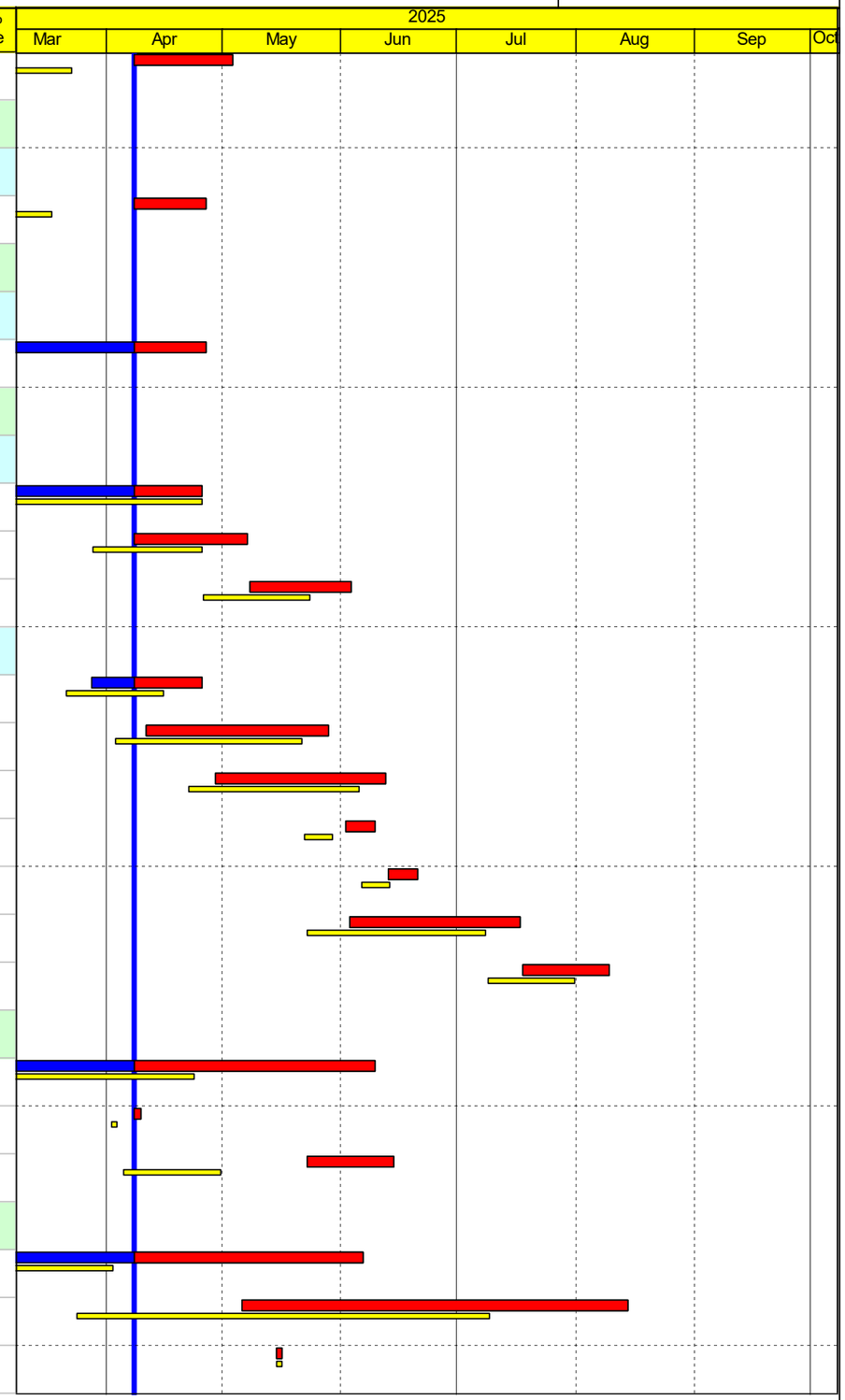
IC-F6.2290	Construction of F6 Part B S02 Column	19	19	08-Apr-25	03-May-25	01-Mar-25	22-Mar-25	-224	0%
Lift Tower & Footbridge F6 (Portion J) - Part C									
Part C Pier/Column									
IC-F6.1270	Construction of F6 Part C C04 Bearing	14	14	08-Apr-25	26-Apr-25	01-Mar-25	17-Mar-25	-274	0%
Lift Tower & Footbridge F6 (Portion J) - Part D									
Part D Pier/Columns (P06, C04, S06, S07)									
IC-F6.1230	Construction of F6 Part D C05 Bearing (Steel Deck D)	14	14	07-Feb-25 A	26-Apr-25	07-Feb-25	24-Feb-25	-274	0%
Lift Tower & Footbridge F6 (Portion J) - Footbridge F6 S960 Steel Elevated Deck Structure									
Circular Steel Deck									
IC-F6.3030	FB F6 :- F6 Circular Steel Deck - On Site Assembly, Welding Works, Setting Out	56	13	15-Feb-25 A	25-Apr-25	15-Feb-25	25-Apr-25	-301	76.79%
IC-F6.3050	FB F6 :- Erect Lifting Towers for Strand Jacks & Setup, Erect Falsework	21	21	08-Apr-25	07-May-25	28-Mar-25	25-Apr-25	-301	0%
IC-F6.3070	FB F6 :- Circular Steel Deck - Strand Jacking & Complete Diaphragm	22	22	08-May-25	03-Jun-25	26-Apr-25	23-May-25	-301	0%
F6 Steel Bridge Deck									
IC-F6.3090	FB F6 :- Erect Concrete Blocks Low Level Platform for Steel Deck Footbridge Assembly	21	13	28-Mar-25 A	25-Apr-25	21-Mar-25	15-Apr-25	-296	38.1%
IC-F6.3110	FB F6 :- Steel Deck Span - On Site Assembly, Welding Works, Setting Out (Part A & D)	36	36	11-Apr-25	28-May-25	03-Apr-25	21-May-25	-299	0%
IC-F6.3130	FB F6 :- Steel Deck Span - On Site Assembly, Welding Works, Setting Out (Part C & B)	36	36	29-Apr-25	12-Jun-25	22-Apr-25	05-Jun-25	-281	0%
IC-F6.3150	FB F6 :- Steel Deck Span - Lifting Bridge Deck Span by Crane & place on Top of Falsework & Jacks on Piers (Part A & D)	7	7	02-Jun-25	09-Jun-25	22-May-25	29-May-25	-301	0%
IC-F6.3170	FB F6 :- Steel Deck Span - Lifting Bridge Deck Span by Crane & place on Top of Falsework & Jacks on Piers (Part C & B)	7	7	13-Jun-25	20-Jun-25	06-Jun-25	13-Jun-25	-281	0%
IC-F6.3190	FB F6 :- Steel Deck Span - Welding & Monolithic Diaphragm Works	38	38	03-Jun-25	17-Jul-25	23-May-25	08-Jul-25	-301	0%
IC-F6.3210	FB F6 :- Steel Deck Span - Remove Temp. Work (Part A, B, C, D)	20	20	18-Jul-25	09-Aug-25	09-Jul-25	31-Jul-25	-301	0%
Lift Tower & Footbridge F6 (Portion J) - Lift A Structure (MIC)									
IC-F6.3290	Lift A 1 & A 2 (MiC) :- RC Staircase A	60	48	20-Dec-24 A	09-Jun-25	20-Dec-24	23-Apr-25	-198	20%
IC-F6.3310	Lift A 1 & A 2 (MiC) :- Lifts Delivery & Erection on site	2	2	08-Apr-25*	09-Apr-25	02-Apr-25	03-Apr-25	-166	0%
IC-F6.3330	Lift A 1 & A 2 (MiC) :- MIC Lifts Installation incl. E&M Works	19	19	23-May-25	14-Jun-25	05-Apr-25	30-Apr-25	-198	0%
Lift Tower & Footbridge F6 (Portion J) - Lift B Structure (MIC)									
IC-F6.3450	Lift B 1 & B 2 (MiC) :- Lift Car RC structure (incl. Lift Pit) (After removal of 132kV CLP Bridge)	46	46	19-Nov-24 A	06-Jun-25	19-Nov-24	02-Apr-25	-187	0%
IC-F6.3470	Lift B 1 & B 2 (MiC) :- RC Staircase B & In Situ Concrete Deck Bet. S960 Structure & Lift B Shaft	85	85	06-May-25	14-Aug-25	24-Mar-25	09-Jul-25	-224	0%
IC-F6.3490	Lift B 1 & B 2 (MiC) :- Lift Delivery & Erection	2	2	15-May-25	16-May-25*	15-May-25	16-May-25	-170	0%



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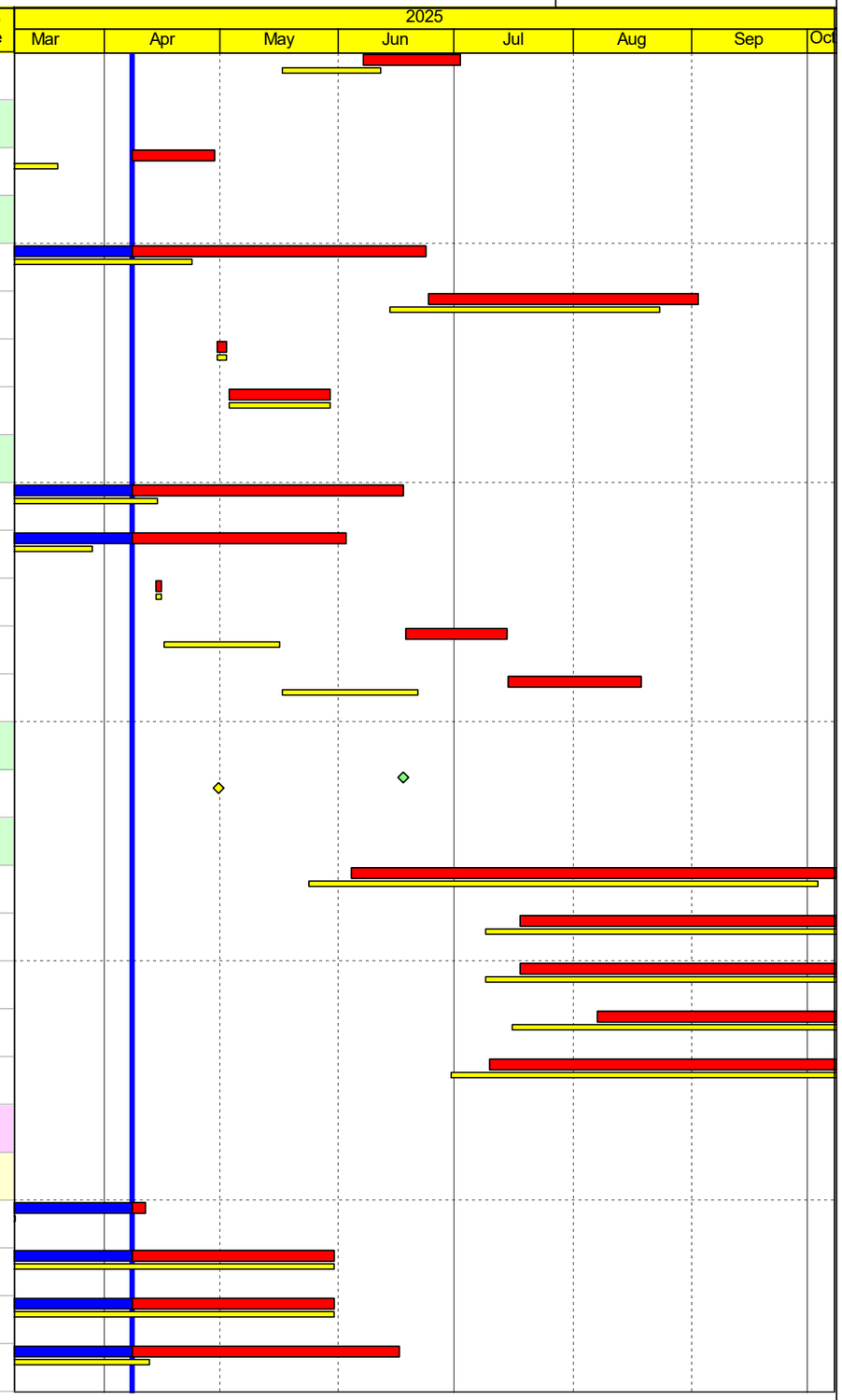
IC-F6.3510	Lift B 1 & B 2 (MiC) :- MIC Installation incl. E&M Works	21	21	07-Jun-25	02-Jul-25	17-May-25	11-Jun-25	-187	0%
Lift Tower & Footbridge F6 (Portion J) - TTA For Lift C Substructure									
IC-F6.3650	Lift C 1 & C 2 (MiC) :- Lift Car RC structure (Incl. Lift Pit)	16	16	08-Apr-25	29-Apr-25	01-Mar-25	19-Mar-25	-164	0%
Lift Tower & Footbridge F6 (Portion J) - Lift C Structure (MIC) after TTA 2.5 Southbound									
IC-F6.3670	Lift C 1 & C 2 (MiC) :- RC Staircase zone before S960 Structure	60	60	20-Dec-24 A	23-Jun-25	20-Dec-24	23-Apr-25	-241	0%
IC-F6.3690	Lift C 1 & C 2 (MiC) :- Remaining RC Staircase & In Situ Concrete Deck Bet. S960 Structure & Lift C Shaft	60	60	24-Jun-25	02-Sep-25	14-Jun-25	23-Aug-25	-241	0%
IC-F6.3710	Lift C 1 & C 2 (MiC) :- Lift Delivery & Erection	2	2	30-Apr-25	02-May-25*	30-Apr-25	02-May-25	-166	0%
IC-F6.3730	Lift C 1 & C 2 (MiC) :- MIC Installation incl. E&M Works	22	22	03-May-25	29-May-25	03-May-25	29-May-25	-166	0%
Lift Tower & Footbridge F6 (Portion J) - Lift D Structure (MIC) after TTA 2.5 Southbound									
IC-F6.3830	Lift D 1 & D 2 (MiC) :- RC Staircase D	55	55	20-Dec-24 A	17-Jun-25	20-Dec-24	14-Apr-25	-228	0%
IC-F6.3850	Lift D 1 & D 2 (MiC) :- Lift Car RC structure (Incl. Lift Pit)	45	42	11-Nov-24 A	02-Jun-25	11-Nov-24	28-Mar-25	-215	6.67%
IC-F6.3870	Lift D 1 & D 2 (MiC) :- Lifts Delivery & Erection on site	2	2	14-Apr-25*	15-Apr-25	14-Apr-25	15-Apr-25	-180	0%
IC-F6.3890	Lift D 1 & D 2 (MiC) :- MiC Installation incl. E&M Works	22	22	18-Jun-25	14-Jul-25	16-Apr-25	16-May-25	-228	0%
IC-F6.3910	Lift D 1 & D 2 (MiC) :- Cast In Situ Concrete Deck Bet. S960 Structure & Lift D Shaft	30	30	15-Jul-25	18-Aug-25	17-May-25	21-Jun-25	-228	0%
Lift Tower & Footbridge F6 (Portion J) - Footbridge F6 Canopy (remaining works - S11)									
IC-F6.4030	Achieved S11 (All remaining works in Footbridge F6)	0	0		17-Jun-25		30-Apr-25	121	0%
Lift Tower & Footbridge F6 (Portion J) - EM/BS/ABWF of Footbridge F6									
IC-F6.5010	FB F6 :- Installation of post & canopy (for Circular Deck)	111	111	04-Jun-25	14-Oct-25	24-May-25	03-Oct-25	-287	0%
IC-F6.5030	FB F6 :- Installation of post & canopy (for Part A & B above future road)	84	84	18-Jul-25	25-Oct-25	09-Jul-25	16-Oct-25	-246	0%
IC-F6.5050	FB F6 :- Installation of post & canopy (for Part C & D above future road)	84	84	18-Jul-25	25-Oct-25	09-Jul-25	16-Oct-25	-300	0%
IC-F6.5070	FB F6 :- Installation of lighting & other E&M items (Cir. Deck + Part A, B, C & D on Footbridge F6- for pedestrian) >>>	119	119	07-Aug-25	29-Dec-25	16-Jul-25	04-Dec-25	-311	0%
IC-F6.5090	FB F6 :- ABWF Works (Cir. Deck + Part A, B, C & D on Footbridge F6- for pedestrian) >>>	153	153	10-Jul-25	10-Jan-26	30-Jun-25	31-Dec-25	-287	0%
Interchange Area_Depressed Road A									
Depressed Rd A Bay 1-12									
IC-DRA.1230	Dep. Rd A :- Remaining Wall construction (A1 to A12)	70	4	08-Oct-24 A	11-Apr-25	08-Oct-24	08-Mar-25	-153	94.29%
IC-DRA.1250	Dep. Rd A :- Noise barrier NB24 (after Dep. Rd A) (~53 nos. post) Fabrication & Delivery	85	41	14-Feb-25 A	30-May-25	14-Feb-25	30-May-25	-89	51.76%
IC-DRA.1270	Dep. Rd A :- Central Median & profile barrier (A1 to A12)	78	41	28-Nov-24 A	30-May-25	28-Nov-24	30-May-25	-153	47.44%
IC-DRA.1290	Dep. Rd A :- Backfilling at Bays A1 to A12 (partial concurrent with UUs Works under ID. UTRA-3001-1) 1/2	54	54	08-Feb-25 A	16-Jun-25	08-Feb-25	12-Apr-25	-153	0%



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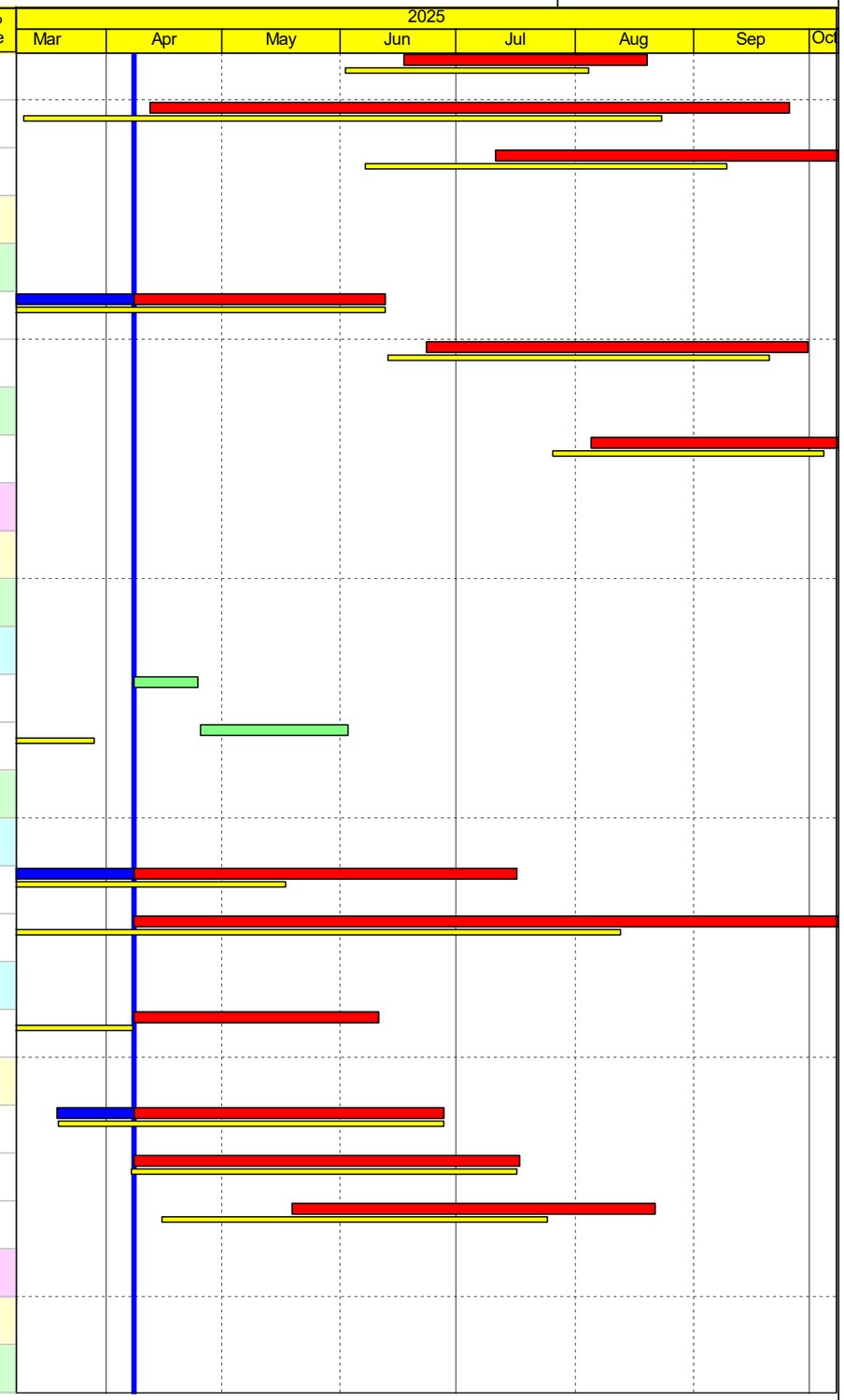
IC-DRA.1310	Dep. Rd A :- Backfilling at Bays A1 to A12 (partial concurrent with UUs Works under ID. UTRA-3001-1) 2/2	54	54	17-Jun-25	19-Aug-25	02-Jun-25	04-Aug-25	-153	0%
IC-DRA.1330	Dep. Rd A :- Installation of Noise barrier NB 24 (after Dep. Rd A) (~53 nos. post) after 1st batch delivery	136	136	12-Apr-25*	25-Sep-25	10-Mar-25	23-Aug-25	-93	0%
IC-DRA.1350	Dep. Rd A :- Installation of Noise barrier NB24 BS. & E&M works	80	80	11-Jul-25	14-Oct-25	07-Jun-25	09-Sep-25	-93	0%
Road Works									
Connection road btw Bridge A3 and Depressed Road A									
IC-DRA/A3.10	RD (Dep. Rd A to A3) :- UUs at Road section bet. Depressed Rd A & Bridge A3 (Northbound-near C7)	100	51	08-Feb-25 A	12-Jun-25	08-Feb-25	12-Jun-25	-145	49%
IC-DRA/A3.10	RD (Dep. Rd A to A3) :- UUs at Road section bet. Depressed Rd A & Bridge A3-06M (Southbound-near Ma Wut river)	85	85	23-Jun-25	30-Sep-25	13-Jun-25	20-Sep-25	-153	0%
Slip Roads (SR05 & SR06) At both side of Depressed Road A									
IC-SR5.1010	SR05 :- Backfilling at Slip Road section in front of Retaining Wall FW8 (Northbound-near C7)	60	60	05-Aug-25	15-Oct-25	26-Jul-25	04-Oct-25	-114	0%
Interchange Area_Underpass at Portions H, J, K									
Underpass - Structural Works									
Underpass Bays C1 to C8 at Portion H									
Underpass - Waterproofing and Backfilling									
IC-UP.1270	Underpass :- Waterproofing to Structure Works for Bay C1 to C4	12	12	08-Apr-25	24-Apr-25	08-Feb-25	21-Feb-25	99	0%
IC-UP.1290	Underpass :- Backfilling to Structure Works for Bay C1 to C4	30	30	25-Apr-25	02-Jun-25	22-Feb-25	28-Mar-25	99	0%
Underpass - Bays C9 - C15 at Portions H, J and K									
Underpass C9-C11 (Road & Drainage Works)									
IC-UP.3050	Underpass :- Fabrication & Delivery of Directional Signs	120	79	26-Sep-24 A	16-Jul-25	26-Sep-24	17-May-25	-227	34.17%
IC-UP.3090	Underpass :- Road & Drainage Works above Bay C9 to C11	151	151	08-Apr-25	10-Oct-25	08-Feb-25	12-Aug-25	-301	0%
Underpass C12a & C12b (former C11-C13) (Road & Drainage Works)									
IC-UP.3150	Underpass :- Road & Drainage Works on STK Rd southbound above Underpass Bay C12a & C12b	49	49	08-Apr-25	10-Jun-25	08-Feb-25	07-Apr-25	-207	0%
BS, E&M Works and Remaining Road Works in Underpass and Depressed Roads									
IC-UP.3210	Underpass/Dep. Rd :- E&M works factory acceptance test	80	64	19-Mar-25 A	27-Jun-25	19-Mar-25	27-Jun-25	-156	20%
IC-UP.3230	Underpass/Dep. Rd :- Lighting, E&M & BS. incl. TDS/TCSS (For All Areas) , E&M works delivery	80	80	08-Apr-25	17-Jul-25	07-Apr-25	16-Jul-25	-156	0%
IC-UP.3250	Underpass/Dep. Rd :- Remaining Works at Underpass/ Depressed Road (E&M, signage, road & drainage works)- Stage 1	80	80	19-May-25	21-Aug-25	15-Apr-25	24-Jul-25	-179	0%
Interchange Area_Depressed Road B									
Depressed Road B_B4-B10									
DPRB Bay 9									



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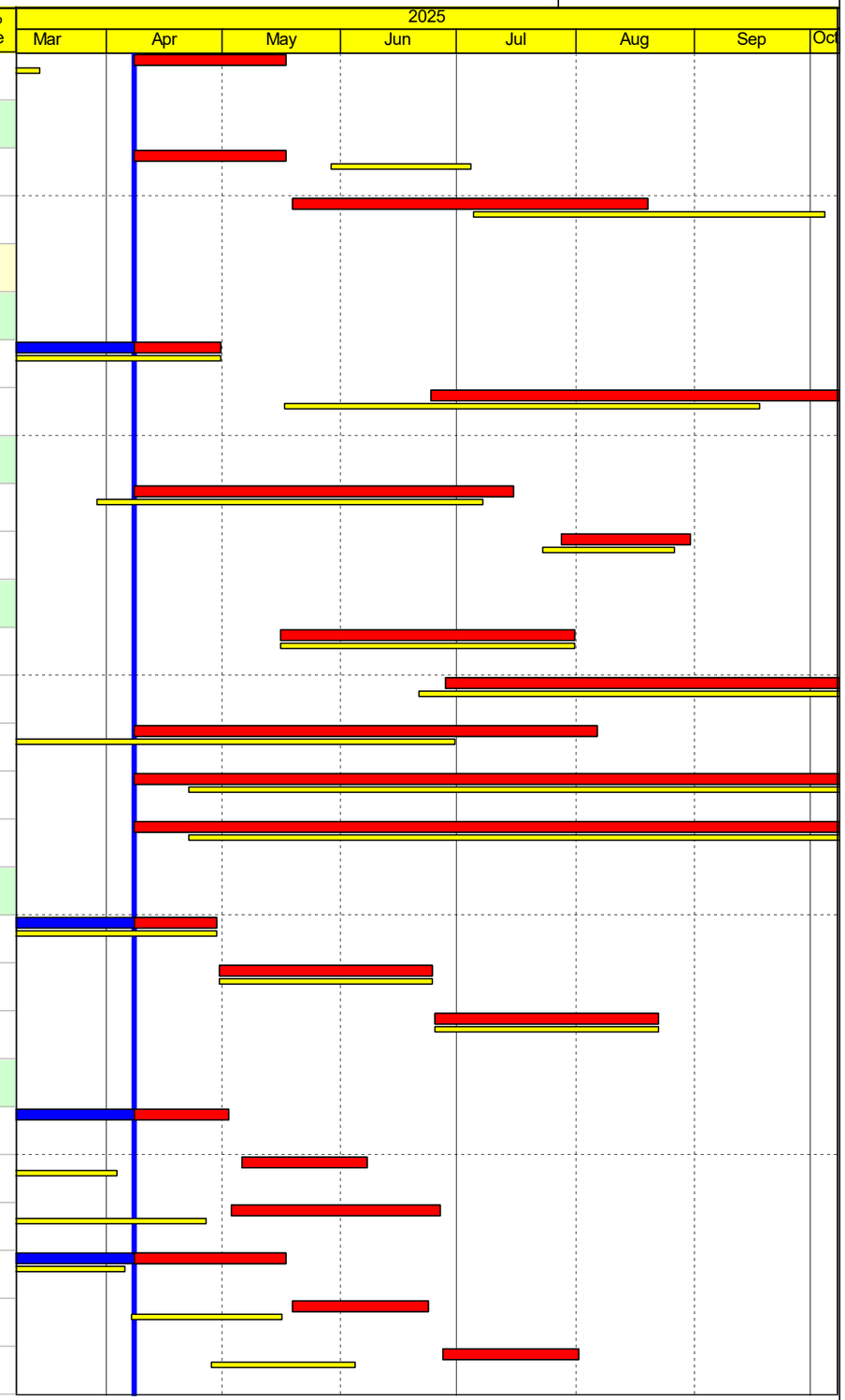
IC-DRB.1570	Dep. Rd B :- Interface Road in DPRB between Contract 4 (C4) & Contract 5 (C5)	30	30	08-Apr-25	17-May-25	08-Feb-25	14-Mar-25	-205	0%
Remaining Works After Structure completion									
IC-DRB.1630	Dep. Rd B :- Portion M - Backfilling for the connection road between U-trough B & abutment (by C5) KD3	30	30	08-Apr-25	17-May-25	29-May-25	04-Jul-25	-117	0%
IC-DRB.1650	Dep. Rd B :- Portion M - Parapet & median barrier at connection road between U trough B & Abutment	78	78	19-May-25	19-Aug-25	05-Jul-25	04-Oct-25	-117	0%
Remaining Works at Depressed road and Slip Road at both side of Depressed Road B									
NB33									
IC-NB.1170	Dep. Rd B/Slip Rd :- Fabrication of Noise barrier NB33a/b (~14 nos. post & 4 bay footing)	48	17	01-Mar-25 A	30-Apr-25	01-Mar-25	30-Apr-25	-210	64.58%
IC-NB.1190	Dep. Rd B/Slip Rd :- Installation of Noise barrier NB33a/b (~14 nos. post & 4 bay footing)	104	104	24-Jun-25	25-Oct-25	17-May-25	17-Sep-25	-253	0%
NB34									
IC-NB.1010	Dep. Rd B/Slip Rd :- Fabrication/Delivery of Noise barrier NB34 (~25 nos. post)	78	78	08-Apr-25	15-Jul-25	29-Mar-25	07-Jul-25	-269	0%
IC-NB.1030	Dep. Rd B/Slip Rd :- Installation of Noise barrier NB34 Post & As-built rec. for Panel fab. (~25 nos. post)@1.8 Post/d??	30	30	28-Jul-25	30-Aug-25	23-Jul-25	26-Aug-25	-292	0%
NB35 & SE11									
IC-NB.1110	Dep. Rd B/Slip Rd :- Fabrication & Delivery of Noise barrier NB35 (~20 nos post)	64	64	16-May-25*	31-Jul-25	16-May-25	31-Jul-25	-245	0%
IC-NB.1130	Dep. Rd B/Slip Rd :- Installation of Noise barrier NB35 (~20 nos post)	128	128	28-Jun-25	28-Nov-25	21-Jun-25	21-Nov-25	-281	0%
IC-NB.1230	Dep. Rd B/Slip Rd :- Fabrication/del. of Noise barrier SE11+NB35 (after Dep. Rd B) (100m, 105 posts)	97	97	08-Apr-25	06-Aug-25	01-Mar-25	30-Jun-25	-260	0%
IC-NB.1250	Dep. Rd B/Slip Rd :- Installation of Noise barrier SE11+NB35 (after Dep. Rd B) (~34 nos. x 3 post & 34 nos x 2 beam)	234	234	08-Apr-25	20-Jan-26	22-Apr-25	30-Jan-26	-78	0%
IC-NB.1270	Dep. Rd B/Slip Rd :- Installation of Noise barrier SE11+NB35 (after Dep. Rd B) (Partial for Slip Road SR07)	171	171	08-Apr-25	04-Nov-25	22-Apr-25	14-Nov-25	-260	0%
Slip Road SR08 from Interchange to Fanling Highway									
IC-SR8.1070	Slip Rd SR08 :- Stormwater Drainage & Manholes at SR08	45	16	04-Mar-25 A	29-Apr-25	04-Mar-25	29-Apr-25	-265	64.44%
IC-SR8.1090	Slip Rd SR08 :- Watermain Pipelaying, Fire Hydrant (FH), Washout Chamber + Test at SR08	45	45	30-Apr-25	24-Jun-25	30-Apr-25	24-Jun-25	-265	0%
IC-SR8.1110	Slip Rd SR08 :- Backfill to road formation, Road Drain/Gullies, Road Lighting	50	50	25-Jun-25	22-Aug-25	25-Jun-25	22-Aug-25	-236	0%
Slip Road SR07 from Fanling Highway to Interchange									
IC-SR7.1010	Slip Rd SR07 :- FW-10(~75m, ~10bay, 15d/bay, 2 team) (after 11kV, town gas & other UUs)-Bay 1-5 & 8-10	65	18	27-Dec-24 A	02-May-25	27-Dec-24	28-Feb-25	-325	72.31%
IC-SR7.1030	Slip Rd SR07 :- FW-10(~75m, ~10bay, 15d/bay, 2 team) (after 11kV, town gas & other UUs)-Bay 6 & 7	28	28	06-May-25	07-Jun-25	03-Mar-25	03-Apr-25	-309	0%
IC-SR7.1050	Slip Rd SR07 :- Footing of noise barrier NB34 (6 bays, 15d/bay, 2 team)	45	45	03-May-25	26-Jun-25	01-Mar-25	26-Apr-25	-325	0%
IC-SR7.1070	Slip Rd SR07 :- Footing of NB33a/b_[NB33a~39m(L), 13 nos. of Post]_[NB33b~6m(L), 2 nos. of Post]	30	30	01-Mar-25 A	17-May-25	01-Mar-25	05-Apr-25	-253	0%
IC-SR7.1090	Slip Rd SR07 :- Backfilling to footing of NB33a/b	30	30	19-May-25	23-Jun-25	07-Apr-25	16-May-25	-253	0%
IC-SR7.1110	Slip Rd SR07 :- Backfilling works to Retaining Wall FW10 & NB34	30	30	27-Jun-25	01-Aug-25	28-Apr-25	04-Jun-25	-325	0%



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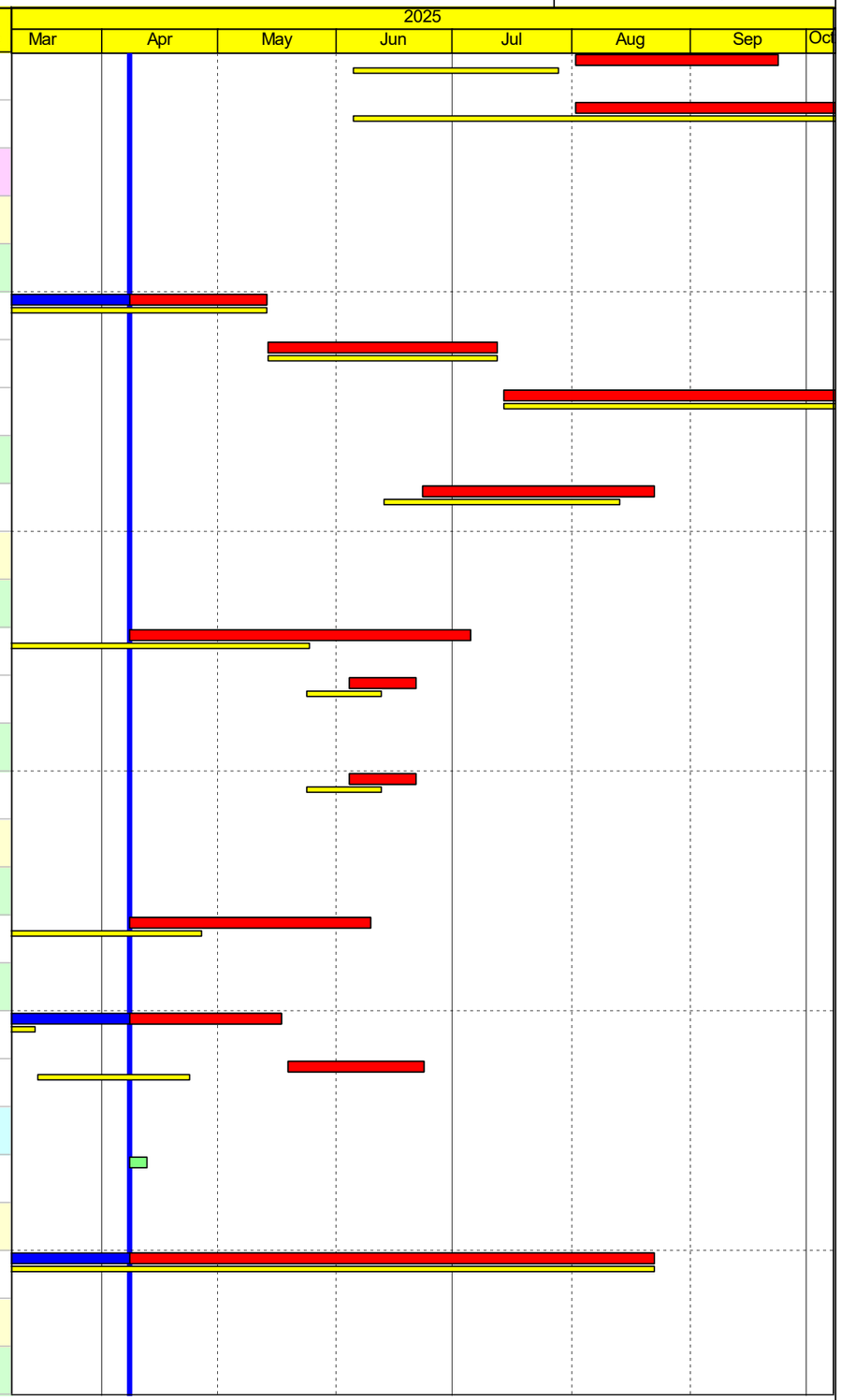
IC-SR7.1130	Slip Rd SR07 :- Watermain works at slip road in front of Retaining Wall FW10 & NB34 & road & drainage works	45	45	02-Aug-25	23-Sep-25	05-Jun-25	28-Jul-25	-325	0%
IC-SR7.1210	Slip Rd SR07 :- Construct Directional Signs (DS 10, ADS 10) after FW10 & NB34	137	137	02-Aug-25	15-Jan-26	05-Jun-25	15-Nov-25	-325	0%
Interchange Area_Underground Utilities (UUs) Works									
Drainage Works									
South of Sha Tau Kok Road (On Kui Street South)									
IC-STK.1010	STK Rd (S) :- Retaining Wall FW32 & FW33 (10 bays)	75	26	14-Dec-24 A	13-May-25	14-Dec-24	13-May-25	-95	65.33%
IC-STK.1030	STK Rd (S) :- Drainage works (manhole + connection) within footprint of FW32 (Bay 2) & FW33 (Bay 5)	50	50	14-May-25	12-Jul-25	14-May-25	12-Jul-25	-95	0%
IC-STK.1050	STK Rd (S) :- Retaining Wall FW32 & 33 (Remaining bays)	75	75	14-Jul-25	10-Oct-25	14-Jul-25	10-Oct-25	-95	0%
Along Sha Tau Kok Road									
IC-STK.1090	STK Rd :- Backfilling works (Sha Tau Kok Road)	52	52	23-Jun-25	22-Aug-25	13-Jun-25	13-Aug-25	-290	0%
Rising Main									
From Sewerage Pumping Station to downstream via Ma Sik Road and On Kui Street									
IC-RM.1050	Rising Mains on Ma Sik Rd (Part 3 i - within Port.N- in/out sewage pumping station)	70	70	08-Apr-25	05-Jul-25	26-Feb-25	24-May-25	-229	0%
IC-RM.1090	Rising Mains on Ma Sik Rd (Part 3 ii - within Port.N- in/out sewage pumping station) after F6 Cir. Steel Deck in place	16	16	04-Jun-25	21-Jun-25	24-May-25	12-Jun-25	-218	0%
From Sha Tau Kok Road to downstream via Ma Sik Road									
IC-RM.1170	Rising Mains on Ma Sik Rd (From STK Rd to Ma Sik Rd down stream near C7) (Above Underpass Bay C9 & C10) after F6 Cir.	16	16	04-Jun-25	21-Jun-25	24-May-25	12-Jun-25	-290	0%
Sewerage Works									
North of Sha Tau Kok Road									
IC-UU.1030	STK Rd (N) :- Remaining sewerage at Ma Sik rd (Part 2) Ma Sik Road (from C7 to SPS) North of STK Rd >>>	48	48	08-Apr-25	09-Jun-25	26-Feb-25	26-Apr-25	-207	0%
South of Sha Tau Kok Road									
IC-UU.1270	STK Rd (S) :- Sewerage pipe between FMH 5.10 & FMH1004470 (incl. TTA & excavation) >>>	30	30	09-Dec-24 A	17-May-25	09-Dec-24	14-Mar-25	-220	0%
IC-UU.1430	STK Rd (S) :- Testing of new pipe & demolition of existing sewerage works (Portion K, Portion K1 & STK Rd) >>>	30	30	19-May-25	23-Jun-25	15-Mar-25	23-Apr-25	-220	0%
Temporary diversion (for ELWS of Underpass C9-C13)									
IC-UP.5030	Underpass :- Temporary sewerage diversion from FMH5.05 to new manhole & existing manhole - Changeover	4	4	08-Apr-25	12-Apr-25	08-Feb-25	13-Feb-25	555	0%
Waterworks									
IC-WM.1150	Watermain (from STK Rd to connection point at On Kui ST) (Part 3) - 600DI & final connection >>>	15	111	09-May-24 A	22-Aug-25	09-May-24	22-Aug-25	-206	0%
Irrigation Works									
Irrigation Works_Statutory									



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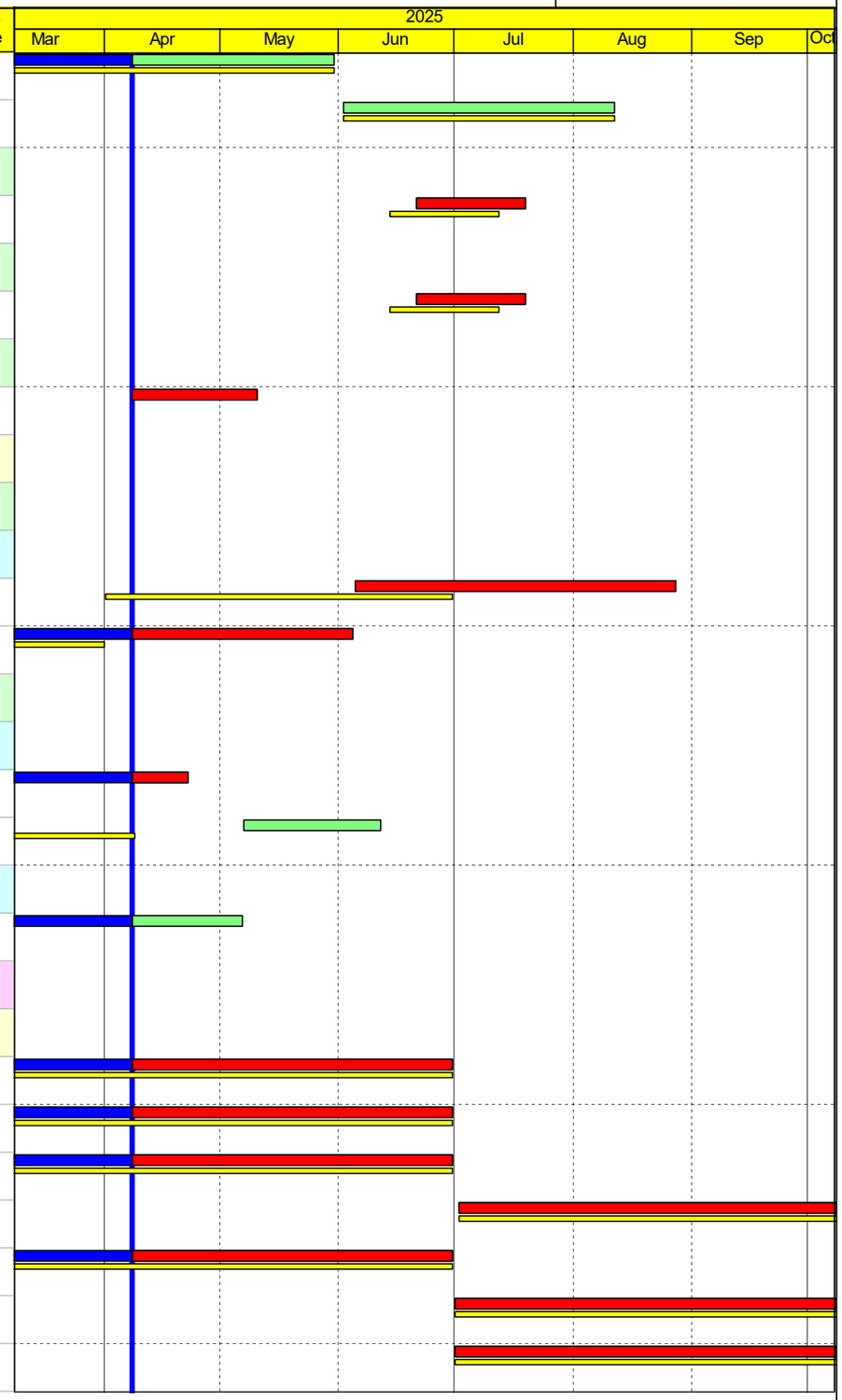
C.IR.1190	Subletting for Irrigation works	90	41	08-Feb-25 A	30-May-25	08-Feb-25	30-May-25	31	54.44%
C.IR.1210	Irrigation Material Submission & approval	60	60	02-Jun-25	11-Aug-25	02-Jun-25	11-Aug-25	31	0%
Irrigation Works_South of Sha Tau Kok Road near Footbridge F6 Part B									
C.IR.1030	Install Irrigation system near Link Bridge B	24	24	21-Jun-25	19-Jul-25	14-Jun-25	12-Jul-25	-177	0%
Irrigation Works_Near Footbridge F6 Part A and across Slip Road SR08									
C.IR.1070	Install Irrigation system near Part A & Slip Road SR08	24	24	21-Jun-25	19-Jul-25	14-Jun-25	12-Jul-25	-207	0%
Irrigation Works_Above Underpass									
C.IR.1090	Install Irrigation system atfer Underpass Bay C9 to C11 backfilling	24	24	08-Apr-25	10-May-25	08-Feb-25	07-Mar-25	-170	0%
Existing UUs Diversion									
CLP									
CLP 11kV Cables works at Interchange area (tentative scheme)									
CLP-4030	CLP :- CLP Changeover Works (At portion H,I,J,N) - 14 nos. joint boxes	71	71	05-Jun-25	27-Aug-25	01-Apr-25	30-Jun-25	-210	0%
CLP-5060a	CLP :- 11kV Cables (14 pcs.) laying above Underpass Bay C9 to C11	12	44	02-Dec-24 A	04-Jun-25	02-Dec-24	31-Mar-25	-210	0%
Telecom (by Others)									
HGC/HKBN/HKBNESHK/PCCW									
TL-1040	PCCW diversion-stage 5 (near the toilet & RCP)	23	10	01-Mar-24 A	22-Apr-25	01-Mar-24	19-Feb-25	-292	56.52%
TL-1060	Abandon of existing cables of UUs	30	30	07-May-25	11-Jun-25	04-Mar-25	08-Apr-25	18	0%
Towngas/telecom									
TL-3010	HGC/HKBN/HKBNES diversion -stage 2 (after TTA)	49	20	08-Mar-24 A	06-May-25	08-Mar-24	03-Mar-25	18	59.18%
Interchange Area_Stormwater Pumping Station (SWPS) under Portion H									
Stormwater Pumping Station_Statutory Submission and Design under Portion H									
IC.SW.2190	SWPS :- FS design (Stormwater pumping station)	268	66	08-May-23 A	30-Jun-25	08-May-23	30-Jun-25	-212	75.37%
IC.SW.2210	SWPS :- Submersible pump design (Stormwater pumping station)	268	66	08-May-23 A	30-Jun-25	08-May-23	30-Jun-25	-212	75.37%
IC.SW.2230	SWPS :- Scada design (Stormwater pumping station)	268	66	08-May-23 A	30-Jun-25	08-May-23	30-Jun-25	-212	75.37%
IC.SW.2250	SWPS :- Submission & Approval of DDA to DSD (Stormwater pumping station)	152	152	02-Jul-25	31-Dec-25	02-Jul-25	31-Dec-25	-212	0%
IC.SW.2410	SWPS :- Submission & approval of WWO 542 (Application for Water Supply)	269	84	09-Apr-24 A	30-Jun-25	09-Apr-24	30-Jun-25	-187	68.77%
IC.SW.2430	SWPS :- Mega Link application	266	266	01-Jul-25	23-Mar-26	01-Jul-25	23-Mar-26	-187	0%
IC.SW.2450	SWPS :- Direct Link application	266	266	01-Jul-25	23-Mar-26	01-Jul-25	23-Mar-26	-187	0%



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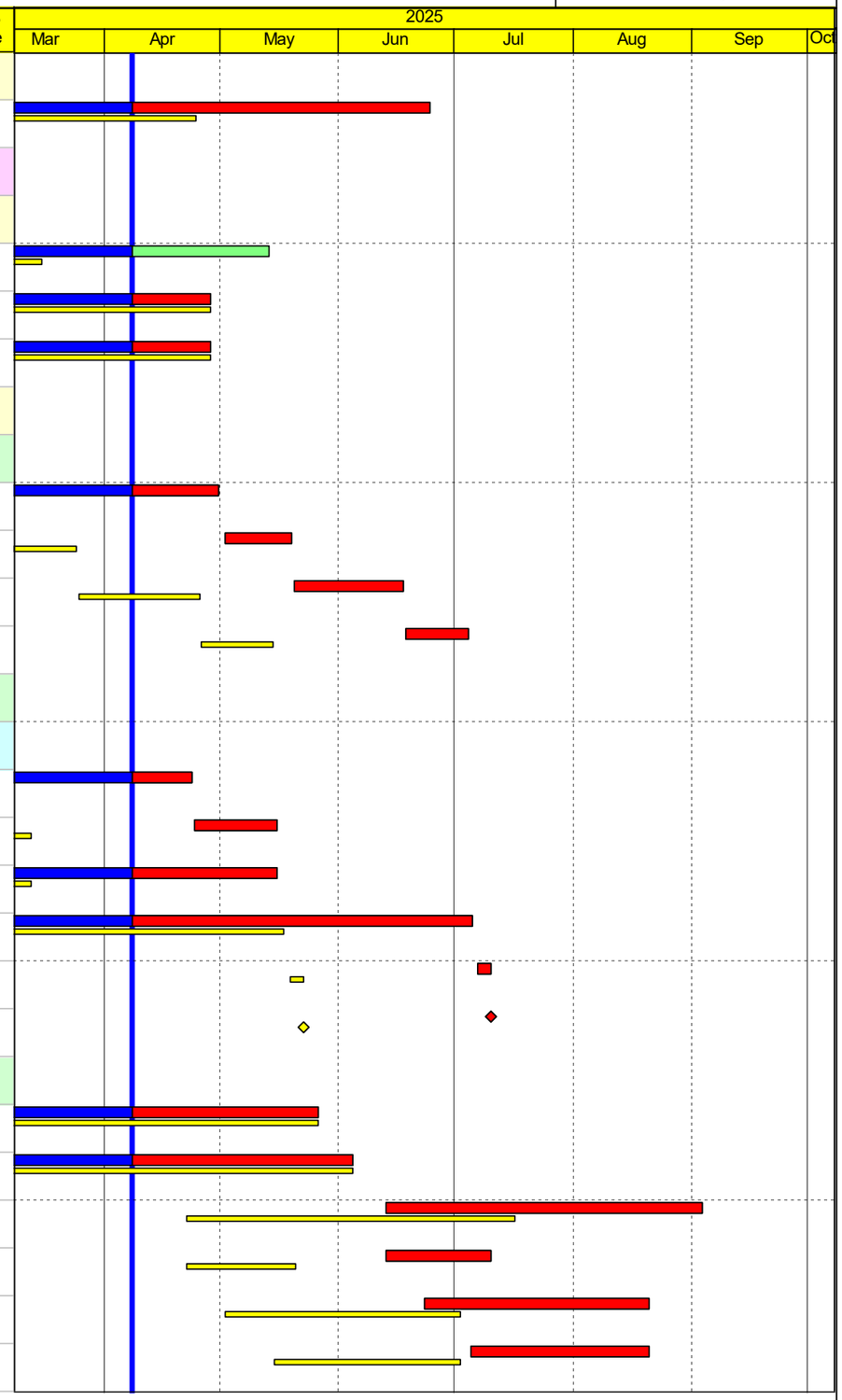
Baseline Programme RP10 Accepted on 28 February 2025

Date	Revision	Checked	Approved
08-Apr-25	Data Date		

Activity ID	Activity Name	Orig. Dur.	Rem. Dur.	Start	Finish	BL Start RP10	BL Finish RP10	Total Float	Activity % Complete
Stormwater Pumping Station - Confined space works under TTA2 under Portion H									
IC.SW.2650	SWPS :- Underground wall, subway & Structure Construction to +9.70mPD	114	61	10-Apr-24 A	24-Jun-25	10-Apr-24	24-Apr-25	-55	46.49%
Interchange Area_Sewage Pumping Station (SEWPS)									
SEWPS Statutory Submission and Design									
IC.SE.1330	SEWPS :- Sewage Pumping Station Submission & approval of DDA to DSD	152	36	30-Oct-23 A	13-May-25	30-Oct-23	15-Mar-25	654	76.32%
IC.SE.1370	SEWPS :- Sewage Pumping Station Mega Link Application	180	21	29-Nov-23 A	28-Apr-25	29-Nov-23	28-Apr-25	-155	88.33%
IC.SE.1390	SEWPS :- Sewage Pumping Station Direct Link Application	180	21	29-Nov-23 A	28-Apr-25	29-Nov-23	28-Apr-25	-155	88.33%
Sewage Pumping Station in Portion N (After TTA2 Northbound)									
SEWPS_Structural Works									
IC.SE.1630	SEWPS :- Sewage Pumping Station Construct GL slab (valve chamber, inlet chamber & wet well)	20	17	04-Dec-24 A	30-Apr-25	04-Dec-24	07-Mar-25	-281	15%
IC.SE.1650	SEWPS :- Sewage Pumping Station Construct wall to roof	14	14	02-May-25	19-May-25	08-Mar-25	24-Mar-25	-281	0%
IC.SE.1670	SEWPS :- Sewage Pumping Station Construct Roof Slab (incl. Erect Falsework & Formworks) & external stairway	24	24	20-May-25	17-Jun-25	25-Mar-25	25-Apr-25	-281	0%
IC.SE.1690	SEWPS :- Sewage Pumping Station Roof Slab Waterproofing	14	14	18-Jun-25	04-Jul-25	26-Apr-25	14-May-25	-228	0%
SEWPS_Transformer Room, Switch Room									
Tx and Switch Rooms - ABWF, E&M Works									
IC.SE.1870	SEWPS TX/SR :- Switch Room - Internal ABWF Works	30	11	16-Jan-25 A	23-Apr-25	16-Jan-25	20-Feb-25	-204	63.33%
IC.SE.1890	SEWPS TX/SR :- Switch Room - Internal E&M/BS Works	17	17	24-Apr-25	15-May-25	21-Feb-25	12-Mar-25	-204	0%
IC.SE.1910	SEWPS TX/SR :- Switch Room - E&M Installation of Switchboard	17	28	03-Feb-25 A	15-May-25	03-Feb-25	12-Mar-25	-204	0%
IC.SE.1970	SEWPS TX/SR :- CLP works in TX Room (3 calendar months duration)	70	70	19-Feb-25 A	05-Jul-25	19-Feb-25	17-May-25	-239	0%
IC.SE.1990	SEWPS TX/SR :- CLP Power Energization works for Sewage Pumping Station	4	4	07-Jul-25	10-Jul-25	19-May-25	22-May-25	-239	0%
IC.SE.2010	SEWPS TX/SR :- CLP Power ready for operation of Sewage Pumping Station	0	0		10-Jul-25		22-May-25	-239	0%
SEWPS_ABWF and E&M Works (Remaining Parts of Sewage PS)									
IC.SE.2070	SEWPS :- E&M works Factory acceptance test	80	37	15-Feb-25 A	26-May-25	15-Feb-25	26-May-25	-235	53.75%
IC.SE.2090	SEWPS :- E&M works delivery (incl. Pump, Screen, Stoplog, Penstock/valve, FS equip't, Crane, pipe	80	44	24-Feb-25 A	04-Jun-25	24-Feb-25	04-Jun-25	-235	45%
IC.SE.2110	SEWPS :- Ext. Works_Rain/sewage water manhole and pipeworks	70	70	13-Jun-25	03-Sep-25	22-Apr-25	16-Jul-25	-281	0%
IC.SE.2130	SEWPS :- Ext. Works_HKT Manhole, Ducting & Wiring	23	23	13-Jun-25	10-Jul-25	22-Apr-25	20-May-25	-281	0%
IC.SE.2150	SEWPS :- Ext. Works_Underground water pipeworks	50	50	23-Jun-25	20-Aug-25	02-May-25	02-Jul-25	-281	0%
IC.SE.2170	SEWPS :- Ext. Works_Rain water Syatem at R/F	40	40	05-Jul-25	20-Aug-25	15-May-25	02-Jul-25	-268	0%



Remaining Work
Milestone
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Project Baseline
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Crit Milestone
Actual Work
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Project ID: RP10.MU03-2025

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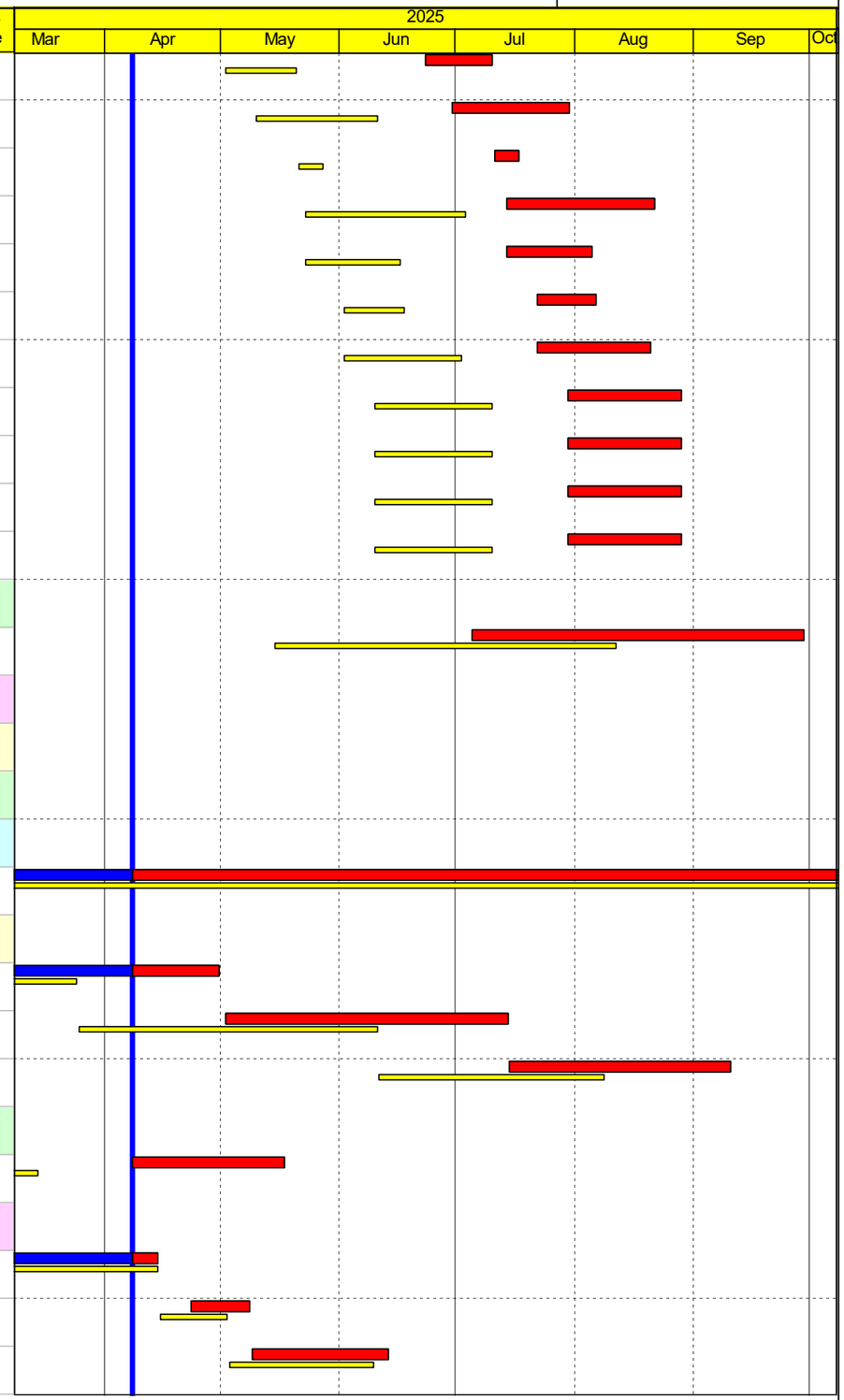
IC.SE.2190	SEWPS :- FS works_FS Cabling & Ctrl. accessories (Lev. +11.5 mpD)	15	15	23-Jun-25	10-Jul-25	02-May-25	20-May-25	-281	0%
IC.SE.2210	SEWPS :- Elect. Overhead Travelling Crane (Lev. +11.5 mpD)	26	26	30-Jun-25	30-Jul-25	10-May-25	10-Jun-25	-256	0%
IC.SE.2230	SEWPS :- FS works_T&C (Lev. +11.5 mpD)	6	6	11-Jul-25	17-Jul-25	21-May-25	27-May-25	-269	0%
IC.SE.2250	SEWPS :- BS works (Lev. +11.5 mpD)	34	34	14-Jul-25	21-Aug-25	23-May-25	03-Jul-25	-269	0%
IC.SE.2270	SEWPS :- Valve Chamber_Pipeworks, valves and fittings (Lev. +7.0 mpD)	20	20	14-Jul-25	05-Aug-25	23-May-25	16-Jun-25	-281	0%
IC.SE.2290	SEWPS :- Inlet Chamber_Influent Bracket Screens	14	14	22-Jul-25	06-Aug-25	02-Jun-25	17-Jun-25	-281	0%
IC.SE.2310	SEWPS :- Inlet Chamber_Stoplog SL-01	26	26	22-Jul-25	20-Aug-25	02-Jun-25	02-Jul-25	-274	0%
IC.SE.2330	SEWPS :- Wet Well_Penstock PS-01 to PS-03 (Lev. +8.2 mpD)	26	26	30-Jul-25	28-Aug-25	10-Jun-25	10-Jul-25	-281	0%
IC.SE.2350	SEWPS :- Wet Well_Sewage Water Pumps SP-01 & Sp-02 (Lev. +8.2 mpD)	26	26	30-Jul-25	28-Aug-25	10-Jun-25	10-Jul-25	-281	0%
IC.SE.2370	SEWPS :- Toilet_Sanifit Installation	26	26	30-Jul-25	28-Aug-25	10-Jun-25	10-Jul-25	-275	0%
IC.SE.2390	SEWPS :- Toilet_MEP Installation incl. Heater	26	26	30-Jul-25	28-Aug-25	10-Jun-25	10-Jul-25	-275	0%
SEWPS_Landscape Works									
IC.LW.1010	Landscape :- Landscaping Works - Roof Greenery & Ground	74	74	05-Jul-25	29-Sep-25	15-May-25	11-Aug-25	-226	0%
Interchange Area_Reprovision of On Luk Mun Street Playground (S3)									
Works in Portion K1									
Portion K_New Skateboard Park									
Landscape Area									
OLMSP.191(	Landscape :- Establishment works	365	326	28-Feb-25 A	27-Feb-26	28-Feb-25	27-Feb-26	-128	10.68%
Works in Portion P									
OLMSP.2850	Port.P :- Retaining Wall FW10 (4 bays, Bay 17 to 20)	38	17	27-Dec-24 A	30-Apr-25	27-Dec-24	24-Mar-25	-317	55.26%
OLMSP.2870	Port.P :- Backfilling work to Retaining Wall FW10 & remaining area (between abutment (by Contract C5) & Depressed road	60	60	02-May-25	14-Jul-25	25-Mar-25	10-Jun-25	-317	0%
OLMSP.2890	Port.P :- Water main works at slip road in front of Retaining Wall FW10 & road & drainage works	50	50	15-Jul-25	10-Sep-25	11-Jun-25	08-Aug-25	-317	0%
Portion P_Temporary Skateboard Park Scheme									
OLMSP.3010	Reinstatement of area of mini Skateboard Park for suBS.equent works	30	30	08-Apr-25	17-May-25	08-Feb-25	14-Mar-25	-111	0%
Interchange Area_Reprovision of Public Toilet and Refuse Collection Point (S6)									
PTRCP.1150	P.Toilet/RCP(S6) :- Procurement/Fabrication/Delivery of builder works & E&M items	79	6	08-May-24 A	14-Apr-25	08-May-24	14-Apr-25	-288	92.41%
PTRCP.1190	P.Toilet/RCP(S6) :- On-site installation (Public Toilet & RCP)	12	12	23-Apr-25	08-May-25	15-Apr-25	02-May-25	-292	0%
PTRCP.1210	P.Toilet/RCP(S6) :- Waterproofing & other remaining works UUs, drainage	30	30	09-May-25	13-Jun-25	03-May-25	09-Jun-25	-292	0%



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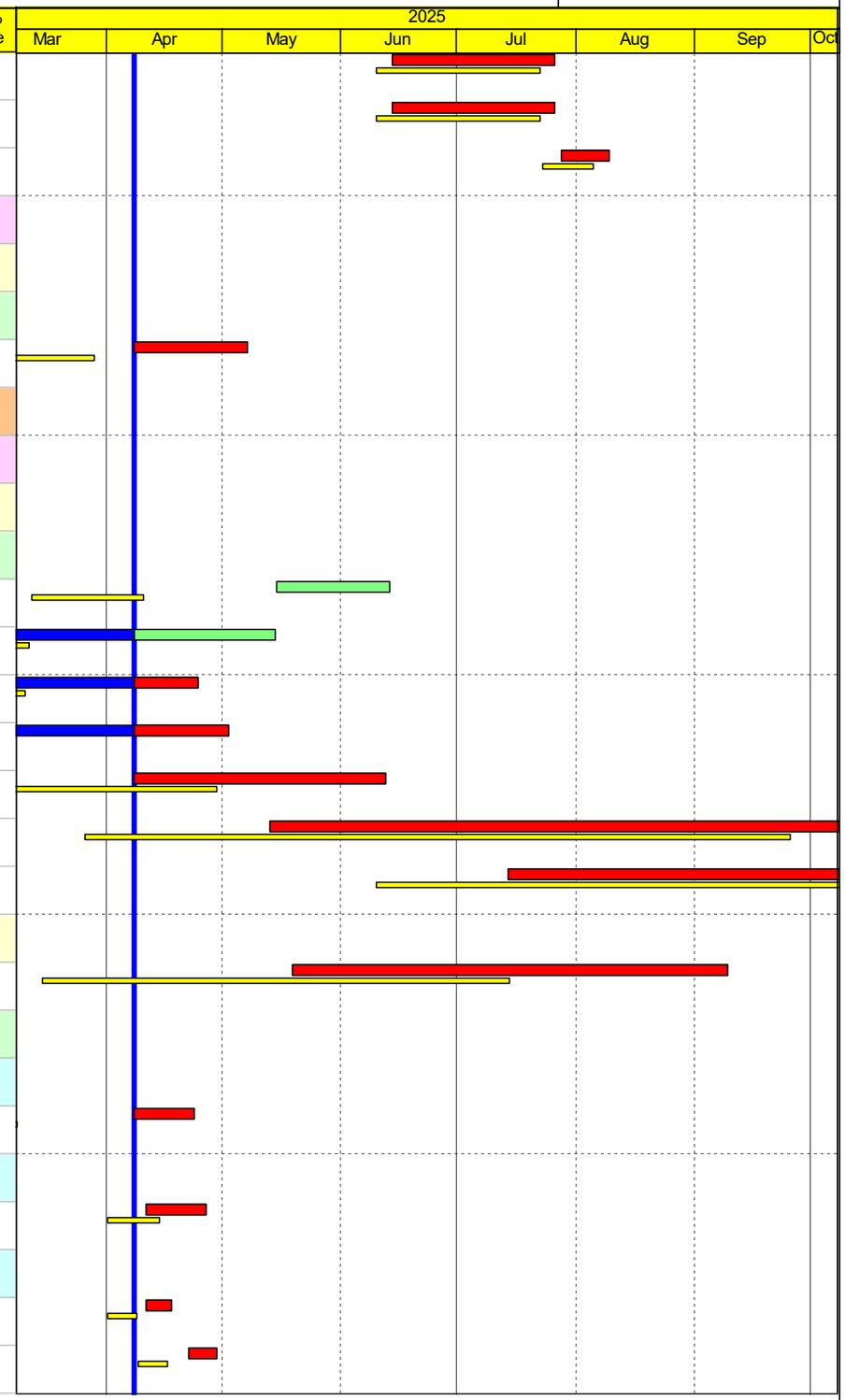
PTRCP.1230	P.Toilet/RCP(S6) :- ABWF for Public Toilet & RCP	36	36	14-Jun-25	26-Jul-25	10-Jun-25	22-Jul-25	-238	0%
PTRCP.1250	P.Toilet/RCP(S6) :- EM & BS. for Public Toilet & RCP	36	36	14-Jun-25	26-Jul-25	10-Jun-25	22-Jul-25	-292	0%
PTRCP.1270	P.Toilet/RCP(S6) :- Works required by CLP at meter room at Public Toilet	12	12	28-Jul-25	09-Aug-25	23-Jul-25	05-Aug-25	-238	0%
Interchange Area_Construction of Outfall along Depressed Road A									
Outfall 8530A									
Outfall 8530A_Construction									
OFL.8530.380	Outfall 8530A :- Backfill & Reinstate Feature Slope & Grasscrete	21	21	08-Apr-25	07-May-25	05-Mar-25	28-Mar-25	-27	0%
Construction_Construction of U Trough and Retaining Walls									
Retaining Walls (FWs)									
FW29, FW,25, FW34 (Bet. Bridge Pier A3-06 and Depressed Road A at Portions C and F)									
Structural Works									
C.FW.1230	FW :- Remaining retaining wall FW34	25	25	15-May-25	13-Jun-25	12-Mar-25	10-Apr-25	507	0%
C.FW.1250	FW :- Retaining wall FW29 (22 bays)	135	27	09-Jan-24 A	14-May-25	09-Jan-24	11-Mar-25	105	80%
C.FW.1270	FW :- Noise barrier NB23 (4 bays) incl. as-built holding down bolts, etc.	50	12	08-Jan-25 A	24-Apr-25	08-Jan-25	10-Mar-25	-145	76%
C.FW.1290	FW :- Noise barrier NB23 (4 bays) (130m length, 125 posts) fabrication & Delivery (Bridge+IC)	50	18	24-Sep-24 A	02-May-25	24-Sep-24	28-Feb-25	-102	64%
C.FW.1310	FW :- Install Noise barrier Posts on NB23 (FW25) & As-built rec. (230m L, 83 posts) Interchange (IC) direction@1.5Post/d	51	51	08-Apr-25	12-Jun-25	25-Feb-25	29-Apr-25	-102	0%
C.FW.1330	FW :- Fabricate Noise barrier NB23 Subframe/Panel (Alu/Glass) (230m L, 83 posts) Interchange (IC) direction	150	150	13-May-25	08-Nov-25	26-Mar-25	25-Sep-25	-102	0%
C.FW.1390	FW :- Outfall & riverbank related works (Check)	107	107	14-Jul-25	18-Nov-25	10-Jun-25	15-Oct-25	-27	0%
FW07, FW08 (at Depressed Road A and Underpass - Portion H)									
C.FW.1430	FW :- Retaining Wall FW7	96	96	19-May-25	09-Sep-25	15-Mar-25	14-Jul-25	-111	0%
Retaining Wall - FW08 (Before TTA 3)									
Bay 1 to 3									
C.FW.2230	FW8 :- Bay 1 to 3 - Parapet	11	11	08-Apr-25	23-Apr-25	25-Feb-25	08-Mar-25	-114	0%
Bay 4 to 6									
C.FW.2310	FW8 :- Bay 4 to 6 - Parapet	11	11	11-Apr-25	26-Apr-25	01-Apr-25	14-Apr-25	-33	0%
Bay 7 to 9									
C.FW.2320	FW8 :- Bay 7 to 9 - Excavation	6	6	11-Apr-25	17-Apr-25	01-Apr-25	08-Apr-25	-114	0%
C.FW.2330	FW8 :- Bay 7 to 9 - Base slab	7	7	22-Apr-25	29-Apr-25	09-Apr-25	16-Apr-25	-114	0%



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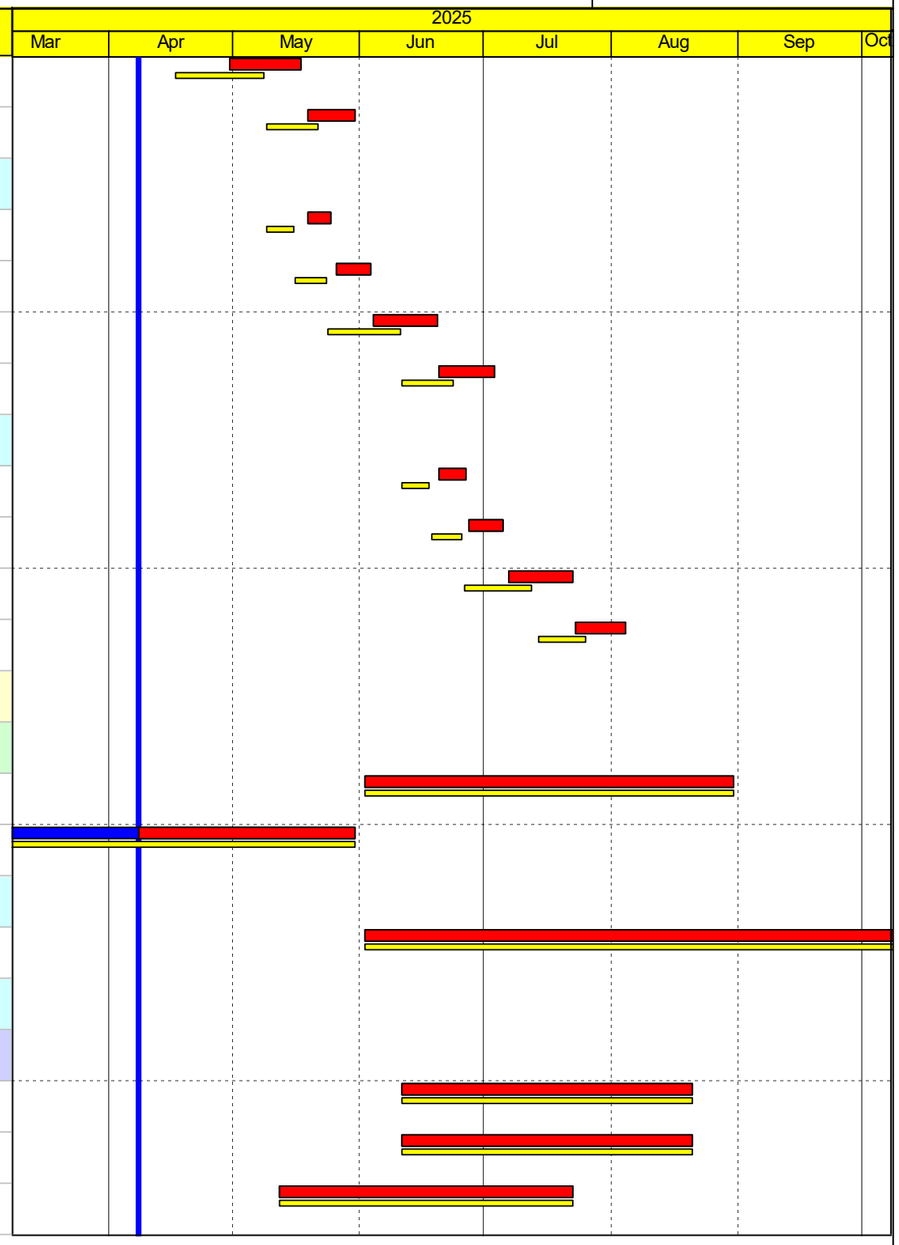
C.FW.2350	FW8 :- Bay 7 to 9 - Wall	14	14	30-Apr-25	17-May-25	17-Apr-25	08-May-25	-114	0%
C.FW.2370	FW8 :- Bay 7 to 9 - Parapet	11	11	19-May-25	30-May-25	09-May-25	21-May-25	-60	0%
Bay 10 to 12									
C.FW.2050	FW8 :- Bay 10 to 12 - Excavation	6	6	19-May-25	24-May-25	09-May-25	15-May-25	-114	0%
C.FW.2070	FW8 :- Bay 10 to 12 - Base slab	7	7	26-May-25	03-Jun-25	16-May-25	23-May-25	-114	0%
C.FW.2090	FW8 :- Bay 10 to 12 - Wall	14	14	04-Jun-25	19-Jun-25	24-May-25	10-Jun-25	-114	0%
C.FW.2110	FW8 :- Bay 10 to 12 - Parapet	11	11	20-Jun-25	03-Jul-25	11-Jun-25	23-Jun-25	-87	0%
Bay 13 to 15									
C.FW.2130	FW8 :- Bay 13 to 15 - Excavation	6	6	20-Jun-25	26-Jun-25	11-Jun-25	17-Jun-25	-114	0%
C.FW.2150	FW8 :- Bay 13 to 15 - Base slab	7	7	27-Jun-25	05-Jul-25	18-Jun-25	25-Jun-25	-114	0%
C.FW.2170	FW8 :- Bay 13 to 15 - Wall	14	14	07-Jul-25	22-Jul-25	26-Jun-25	12-Jul-25	-114	0%
C.FW.2190	FW8 :- Bay 13 to 15 - Parapet	11	11	23-Jul-25	04-Aug-25	14-Jul-25	25-Jul-25	-114	0%
Noise Barriers (NB) and Semi-Enclosure (SE)									
Noise Barrier FLN-SE22 and FLN-SE21 (Portion J)									
C.SE21-1010	SE21 :- Fabrication of Semi-enclosure SE21 (33 nos. post)	77	77	02-Jun-25	30-Aug-25	02-Jun-25	30-Aug-25	-266	0%
C.SE22-1010	SE22 :- Fabrication of Semi-enclosure SE22 (33 nos. post)	72	41	01-Mar-25 A	30-May-25	01-Mar-25	30-May-25	-266	43.06%
Noise Barrier FLN-SE22 Panels, Beams, BS & E&M Works									
C.SE22-1070	Installation of noise barrier NB_SE22 steel post & beam- FLN-SE22 (30 nos. Posts)	108	108	02-Jun-25	08-Oct-25	02-Jun-25	08-Oct-25	-251	0%
Noise Barrier FLN-SE21 (Near Fanling)									
Under TTA 2 (After S960 F6 Steel structure delivery Part A,B, C & D)									
C.SE21-102	SE21 Wall Stem - Central Median	60	60	11-Jun-25	20-Aug-25	11-Jun-25	20-Aug-25	-257	0%
C.SE21-103	SE21 Wall Stem - Southbound	60	60	11-Jun-25	20-Aug-25	11-Jun-25	20-Aug-25	-257	0%
C.SE21-105	SE21 Wall Stem - Northbound (commence after F6 major parts delivery)	60	60	12-May-25	22-Jul-25	12-May-25	22-Jul-25	-257	0%



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AECOM

PROJECT

DEVELOPMENT OF KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1

CONTRACT TITLE:

FANLING NORTH NEW DEVELOPMENT AREA, PHASE 1: FANLING BYPASS EASTERN SECTION (SHEK WU SAN TSUEN NORTH TO LUNG YEUK TAU)

CLIENT

CEDD 土木工程拓展署 Civil Engineering and Development Department

CONSULTANT

AECOM Asia Company Ltd.
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SUB-CONSULTANTS

ISSUE/REVISION

NR	DATE	DESCRIPTION	CHK.
-	NOV-19	TENDER DRAWING	RPCM

STATUS

SCALE A1 1 : 7000

DIMENSION UNIT METRES

KEY PLAN

PROJECT NO. 60335576

CONTRACT NO. ND/2019/04

SHEET TITLE

KEY PLAN AND LOCATION PLAN

SHEET NUMBER

60335576/C5A/C00/1000

Project Management Initials: Designer: JLDT Checked: RPCM Approved: HWL ISO A1 594mm x 841mm

Plot File by: ZENGXLY2 2019/11/23
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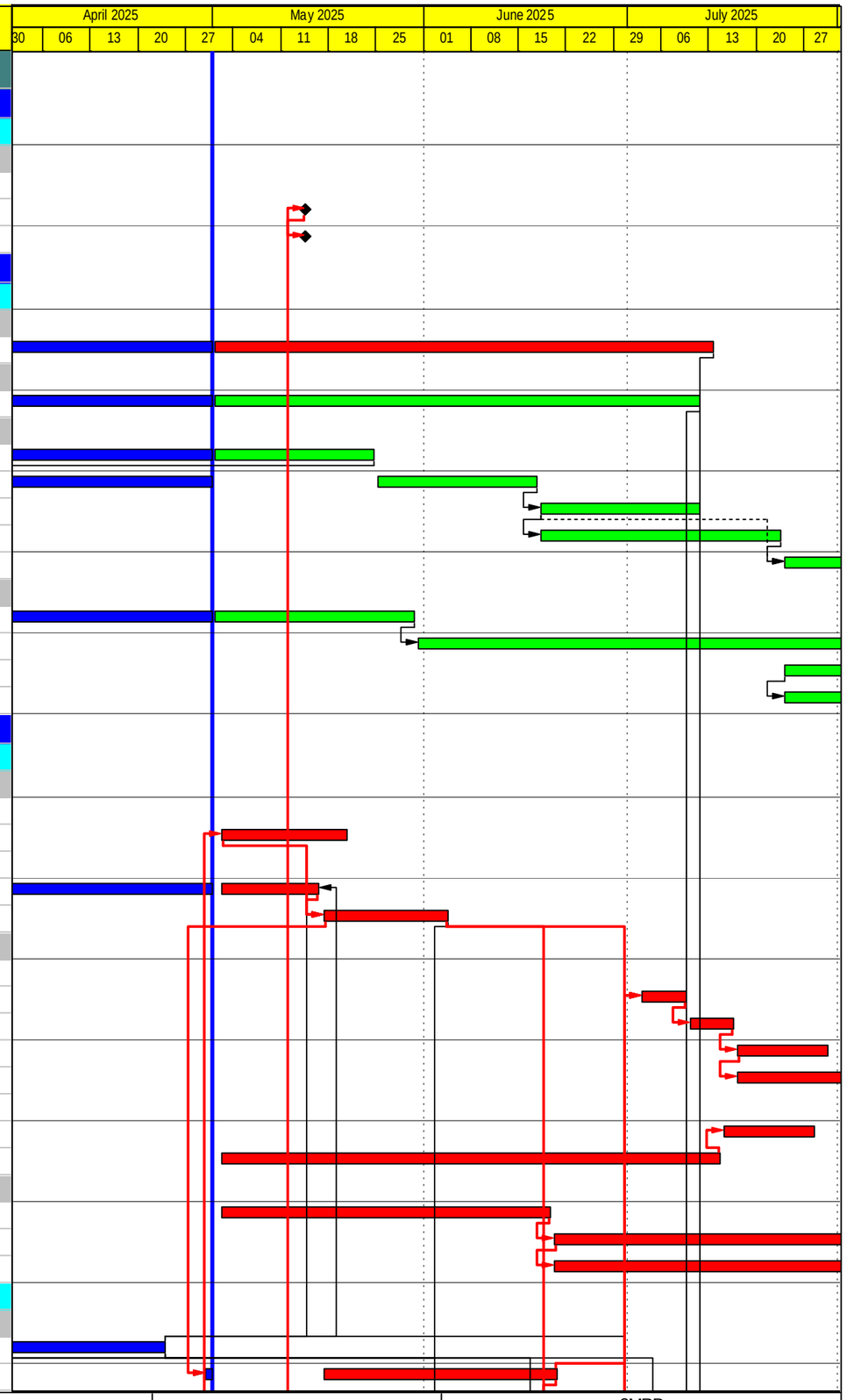
Construction Programme of ND/2019/05

Activity ID	Activity Name	Rem Dur	Early Start	Early Finish
3MRPNo.62 (May 2025)				
1.0 - Contract Data Part 1				
1.3 - Completion Date				
1.3.2 - Section of the Works				
Section 6				
S6-2	Section 6 Current Plan Completion	0		14-May-25
S6-3	Section 6 Completion	0		14-May-25*
2.0 - Preliminary Works				
2.3 - Contractor's Design (PS 1,109)				
2.3.2 - (b) Irrigation system				
CDb-130	Irrigation System - Design Approval	74	01-Aug-24 A	13-Jul-25
2.3.4 - (d) Lighting System				
CDd-135	Road Lighting System - Manufacturing and Delivery	72	06-Jul-24 A	11-Jul-25
2.3.10 - (j) Crash Cushion System				
CDj-100	Crash Cushion System - Procurement	24	19-Feb-25 A	24-May-25
CDj-110	Crash Cushion System - Prep/Submit Design	24	19-Feb-25 A	17-Jun-25
CDj-120	Crash Cushion System - Design ICE	24	18-Jun-25	11-Jul-25
CDj-130	Crash Cushion System - Design Approval	36	18-Jun-25	23-Jul-25
CDj-140	Crash Cushion System - Fabrication and Delivery	60	24-Jul-25	21-Sep-25
2.3.11 - (k) Deck Girdder Access Facilities				
CDk-100	Access Facilities - Procurement	30	01-Jan-24 A	30-May-25
CDk-110	Access Facilities - Prep/Submit Design	90	31-May-25	28-Aug-25
CDk-120	Access Facilities - Design ICE	36	24-Jul-25	28-Aug-25
CDk-130	Access Facilities - Design Approval	72	24-Jul-25	03-Oct-25
4.0 - Bridge Construction				
4.4 - Bridge B1				
4.4.4 - Bridge Deck				
- Portal Beam				
B1-0064	B1-02 Portal Beam Monolytic Connection to Column	15	02-May-25	20-May-25
- Cast-in-situ Slab				
B1-7270	B1 - B1-01M Construct End Diapraghm - Rebar, Formwork and Embedded Items	12	19-Feb-25 A	16-May-25
B1-7275	B1 - B1-01M Construct End Diapraghm - Pour Concrete and Strip Formwork	15	17-May-25	04-Jun-25
4.4.5 - Bridge Deck Road Works				
- Parapet				
B1-4010	B1 Parapet Skin Erection (43m)	6	03-Jul-25	09-Jul-25
B1-4020	B1 Parapet Rebar+Cast-in Items	6	10-Jul-25	16-Jul-25
B1-4025	B1 Parapet Cast Concrete (43m)	12	17-Jul-25	30-Jul-25
B1-4049	B1 Central Median (45m)	18	17-Jul-25	06-Aug-25
- Road Furniture and Misc Works				
B1-5285	B1 - Sign Gantry DS19 Site Delivery	12	15-Jul-25	28-Jul-25
B1-5288	B1 - Sign Gantry DS19 Off-site Fabrication	60	02-May-25	14-Jul-25
4.4.6 - Bridge B1 Ground Level Works				
B1-0014a90	B1 -Removal of support tower and foundation	40	02-May-25	19-Jun-25
B1-7000	B1 Grd Lev - Reinstatement Works	42	20-Jun-25	08-Aug-25
B1-7050	B1 Grd Lev - Drainage Works	42	20-Jun-25	08-Aug-25
4.5 - Bridge B2				
4.5.2 - Bridge Deck Structure				
B2-0510	B2-01/B1-02 End-span Erection by LG (5 nos) + Stitching + Stressing	0	22-Mar-25 A	24-Apr-25 A
B2-0525	LG Dismantling	29	30-Apr-25 A	20-Jun-25



CRCC - Paul Y. Joint Venture

Actual Work
Non-critical
Critical
Milestone

Contract ND/2019/05 - FBES (Shung Him Tong to Kau Lung Hang)

Three-Month Rolling Programme

Project ID : 3MRPNo.62
Layout : 3MRP
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3MRP			
Date	Revision	Check...	Approved
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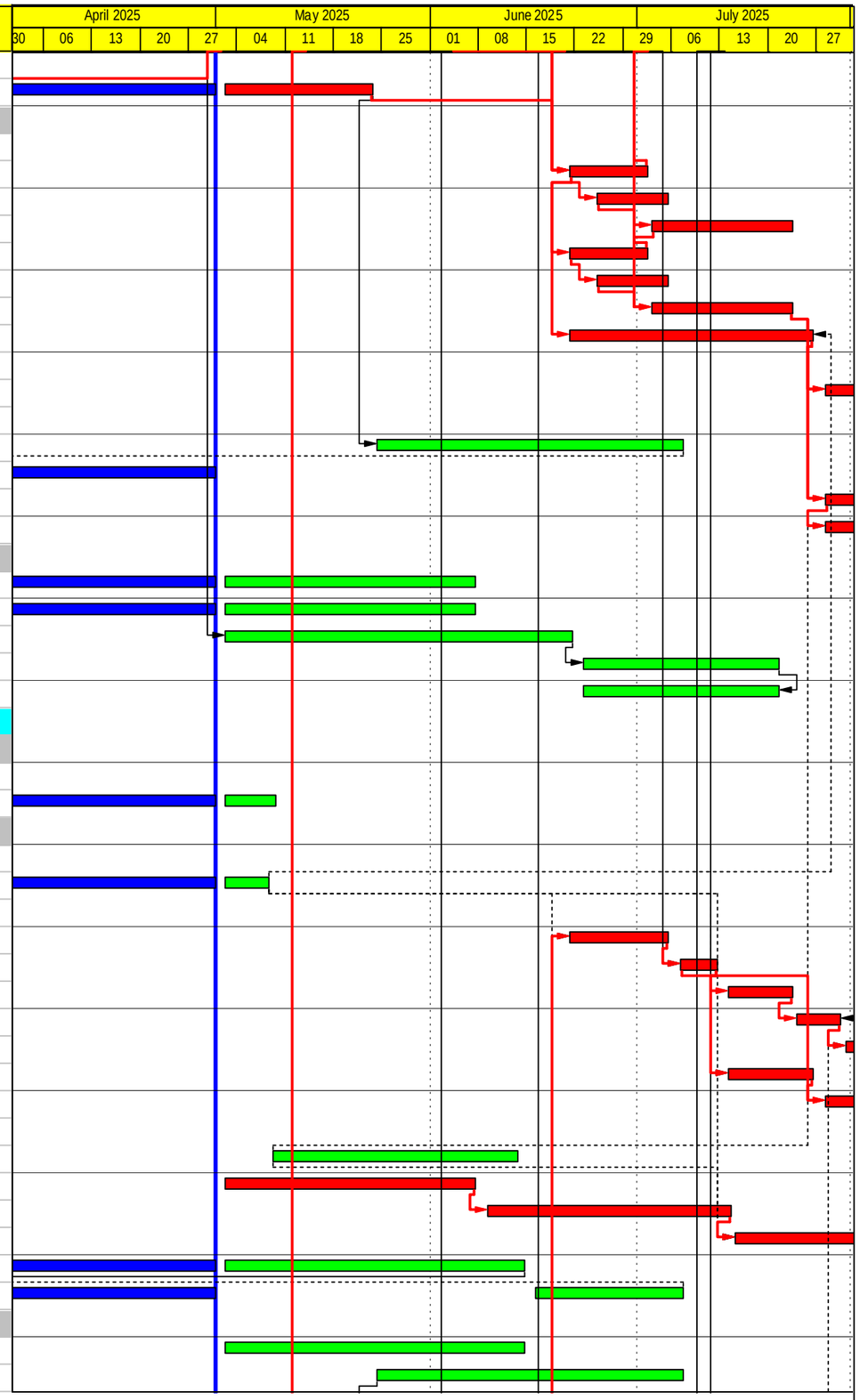
Activity ID	Activity Name	Rem Dur	Early Start	Early Finish
- Stitch and Stress				
B2-0540	B2 - Longitudinal Stitching	18	12-Mar-25 A	23-May-25
4.5.3 - Bridge Deck Road Works				
- Parapet				
B2-4010	B2 S/B Parapet Skin Erection (136m @ 20m/day)	9	21-Jun-25	02-Jul-25
B2-4020	B2 S/B Parapet Rebar+Cast-in Items (136m @ 30m/day)	9	25-Jun-25	05-Jul-25
B2-4025	B2 S/B Parapet Cast Concrete (136m 2 nos 12m-mould @ 3d cycle)	18	03-Jul-25	23-Jul-25
B2-4030	B2 N/B Parapet Skin Erection (137m)	9	21-Jun-25	02-Jul-25
B2-4040	B2 N/B Parapet Rebar+Cast-in Items (137m)	9	25-Jun-25	05-Jul-25
B2-4045	B2 N/B Parapet Cast Concrete (137m 2 nos 12m-mould @ 3d cycle)	18	03-Jul-25	23-Jul-25
B2-4049	B2 Central Median Construction (155m 12m-mould @ 4d cycle)	30	21-Jun-25	26-Jul-25
- Road Paving				
B2-5110	B2 S/B Make Good Surface and Apply Waterproofing	9	28-Jul-25	06-Aug-25
- Road Furniture and Misc Works				
B2-0029	B2 Deck Void Lighting System and Access Facilities	36	24-May-25	07-Jul-25
B2-0030	B2 - Void Drainage	12	06-Mar-25 A	23-Aug-25
B2-4050	B2 Road Furniture	30	28-Jul-25	30-Aug-25
B2-4052	B2 Road Lighting including Cabling	30	28-Jul-25	30-Aug-25
4.5.4 - Bridge B2 Ground Level Works				
B2-7050	B2 Grd Lev - Drainage Work	30	17-Mar-25 A	07-Jun-25
B2-7070	B2 Grd Lev - Drainage OUTFALL_CP01	30	17-Mar-25 A	07-Jun-25
B2-7100	B2 Grd Lev - DN150 Watermain for Bridge Deck FH	42	02-May-25	21-Jun-25
B2-7200	B2 Grd Lev - Landscaping	24	23-Jun-25	21-Jul-25
B2-7250	B2 Grd Lev - Irrigation System	24	23-Jun-25	21-Jul-25
4.6 - Bridge C1				
4.6.2 - Pier				
- C1-01M				
C1-1335	Pier C1-01M S/B Backfilling	6	20-Feb-25 A	09-May-25
4.6.5 - Road Works and Furniture				
- Parapet				
C1-4049	C1 Central Median (180m 2sets 12m-mould @ 4d cycle)	5	19-Feb-25 A	08-May-25
- Road Paving				
C1-5110	C1 S/B Make Good Surface and Apply Waterproofing	12	21-Jun-25	05-Jul-25
C1-5120	C1 S/B Base Course	6	07-Jul-25	12-Jul-25
C1-5130	C1 S/B Gratings and Gullies	9	14-Jul-25	23-Jul-25
C1-5140	C1 S/B Wearing and Friction Course	6	24-Jul-25	30-Jul-25
C1-5150	C1 S/B Road Marking	6	31-Jul-25	06-Aug-25
C1-5210	C1 N/B Make Good Surface and Apply Waterproofing	12	14-Jul-25	26-Jul-25
C1-5220	C1 N/B Base Course	6	28-Jul-25	02-Aug-25
- Road Furniture and Misc Works				
C1-4501	C1 - Road Lighting including Cabling	30	09-May-25	13-Jun-25
C1-4502	C1 - Sign Gantry FADS19 Off-site Fabrication	30	02-May-25	07-Jun-25
C1-4503	C1 - Sign Gantry FADS19 Site Delivery	30	09-Jun-25	14-Jul-25
C1-4505	C1 - Sign Gantry FADS19 Install	24	15-Jul-25	11-Aug-25
C1-4520	C1 - Void Lighting System and Access Facilities	36	02-Dec-24 A	14-Jun-25
C1-4525	C1 - Void Drainage	18	18-Dec-24 A	07-Jul-25
- Bridge C1 Ground Level Works				
C1-7100	C1 Grd Lev - DN150 Watermain for Bridge Deck FH	36	02-May-25	14-Jun-25
C1-7200	C1 Grd Lev - Landscaping	36	24-May-25	07-Jul-25



CRCC - Paul Y. Joint Venture

Actual Work
Non-critical
Critical
Milestone

Contract ND/2019/05 - FBES (Shung Him Tong to Kau Lung Hang)

Three-Month Rolling Programme

Project ID : 3MRPNo.62
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3MRP			
Date	Revision	Check...	Approved
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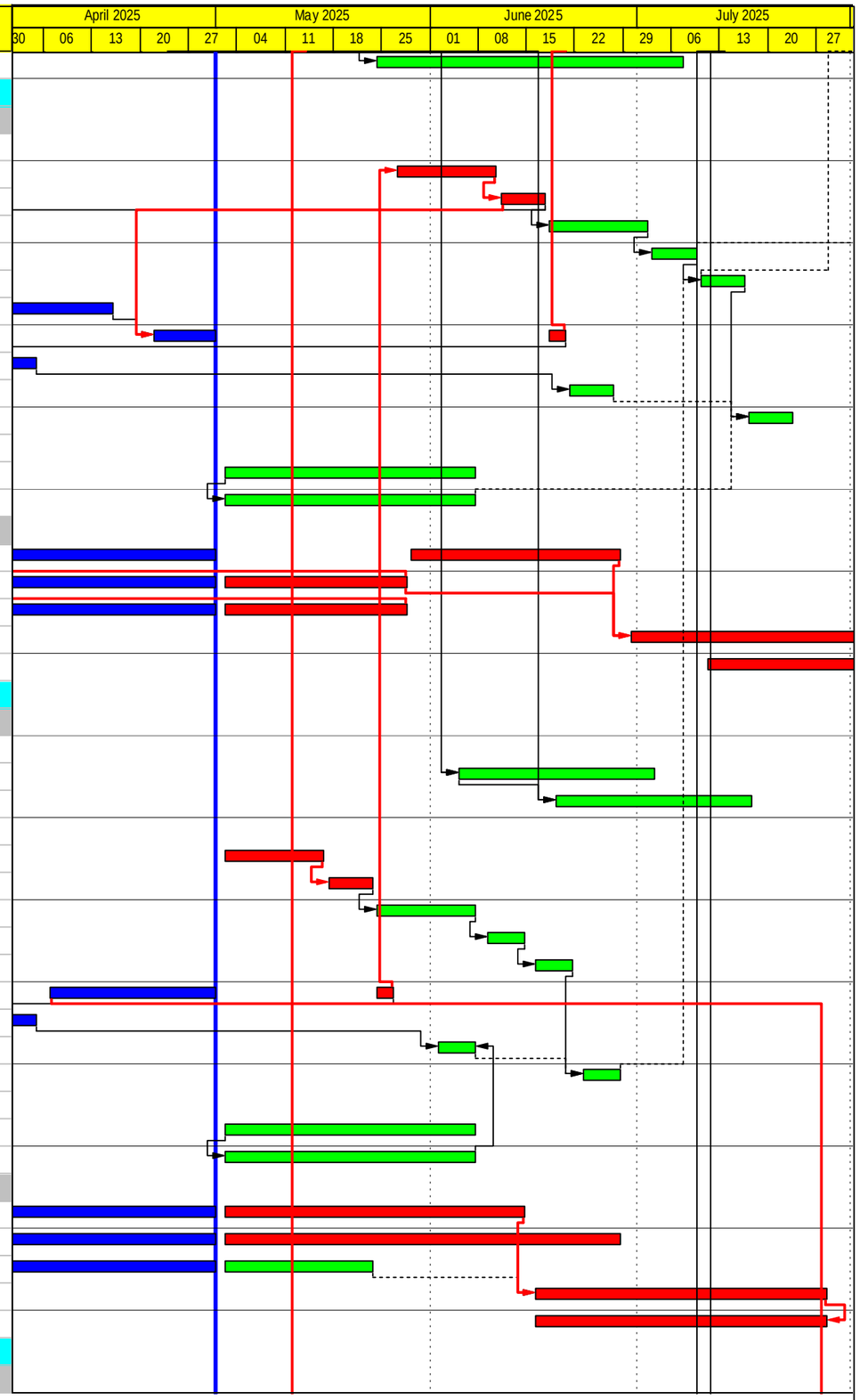
Activity ID	Activity Name	Rem Dur	Early Start	Early Finish
C1-7250	C1 Grd Lev - Irrigation System	36	24-May-25	07-Jul-25
4.7 - Bridge C2				
4.7.5 - Road Works and Furniture				
- Road Paving and Marking				
C2-5110	C2 S/B Make Good Surface and Apply Waterproofing	12	27-May-25	10-Jun-25
C2-5120	C2 S/B Base Course	6	11-Jun-25	17-Jun-25
C2-5130	C2 S/B Gratings and Gullies	12	18-Jun-25	02-Jul-25
C2-5140	C2 S/B Wearing and Friction Course	6	03-Jul-25	09-Jul-25
C2-5150	C2 S/B Road Marking	6	10-Jul-25	16-Jul-25
C2-5210	C2 N/B Make Good Surface and Apply Waterproofing	0	24-Mar-25 A	16-Apr-25 A
C2-5220	C2 N/B Base Course	3	22-Apr-25 A	20-Jun-25
C2-5230	C2 N/B Gratings and Gullies	0	01-Apr-25 A	05-Apr-25 A
C2-5240	C2 N/B Wearing and Friction Course	6	21-Jun-25	27-Jun-25
C2-5250	C2 N/B Road Marking	6	17-Jul-25	23-Jul-25
- Road Furniture and Misc Works				
C2-4150	C2 - Noise Barrier NB27	30	02-May-25	07-Jun-25
C2-4510	C2 - Road Lighting including Cabling	30	02-May-25	07-Jun-25
4.7.6 - Bridge C2 Ground Level Works				
C2-7000	C2 Grd Lev - Reinstatement Works	26	14-Feb-25 A	28-Jun-25
C2-7050	C2 Grd Lev - Drainage Works	22	11-Mar-25 A	28-May-25
C2-7080	C2 Grd Lev - Drainage OUTFALL_8553	22	11-Mar-25 A	28-May-25
C2-7200	C2 Grd Lev - Landscaping	45	30-Jun-25	21-Aug-25
C2-7250	C2 Grd Lev - Irrigation System	36	11-Jul-25	21-Aug-25
4.8 - Bridge C3				
4.8.6 - Road Works and Furniture				
- Parapet				
C3-7355	C3 Remove Temp Ramp Connection	24	05-Jun-25	03-Jul-25
C3-7360	C3 Construct Parapet + Paving at Temp Ramp Gap	24	19-Jun-25	17-Jul-25
- Road Paving and Marking				
C3-5110	C3 S/B Make Good Surface and Apply Waterproofing	12	02-May-25	16-May-25
C3-5120	C3 S/B Base Course	6	17-May-25	23-May-25
C3-5130	C3 S/B Gratings and Gullies	12	24-May-25	07-Jun-25
C3-5140	C3 S/B Wearing and Friction Course	6	09-Jun-25	14-Jun-25
C3-5150	C3 S/B Road Marking	6	16-Jun-25	21-Jun-25
C3-5220	C3 N/B Base Course	2	07-Apr-25 A	26-May-25
C3-5230	C3 N/B Gratings and Gullies	0	24-Mar-25 A	05-Apr-25 A
C3-5240	C3 N/B Wearing and Friction Course	6	02-Jun-25	07-Jun-25
C3-5250	C3 N/B Road Marking	6	23-Jun-25	28-Jun-25
- Furniture and Misc Works				
C3-4150	C3 S/B - Noise Barrier NB31	30	02-May-25	07-Jun-25
C3-4501	C3 - Road Lighting including Cabling	30	02-May-25	07-Jun-25
4.8.7 - Bridge C3 Ground Level Works				
C3-7000	C3 Grd Lev - Reinstatement Works	36	03-Apr-24 A	14-Jun-25
C3-7050	C3 Grd Lev - Drainage Works	48	15-Mar-24 A	28-Jun-25
C3-7100	C3 Grd Lev - DN150 Watermain for Bridge Deck FH	18	16-Dec-24 A	23-May-25
C3-7200	C3 Grd Lev - Landscaping	36	16-Jun-25	28-Jul-25
C3-7250	C3 Grd Lev - Irrigation System	36	16-Jun-25	28-Jul-25
4.9 - Bridge C4				
4.9.6 - Road Works and Furniture				



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Contract ND/2019/05 - FBES (Shung Him Tong to Kau Lung Hang)

Three-Month Rolling Programme

Project ID : 3MRPNo.62
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3MRP			
Date	Revision	Check...	Approved
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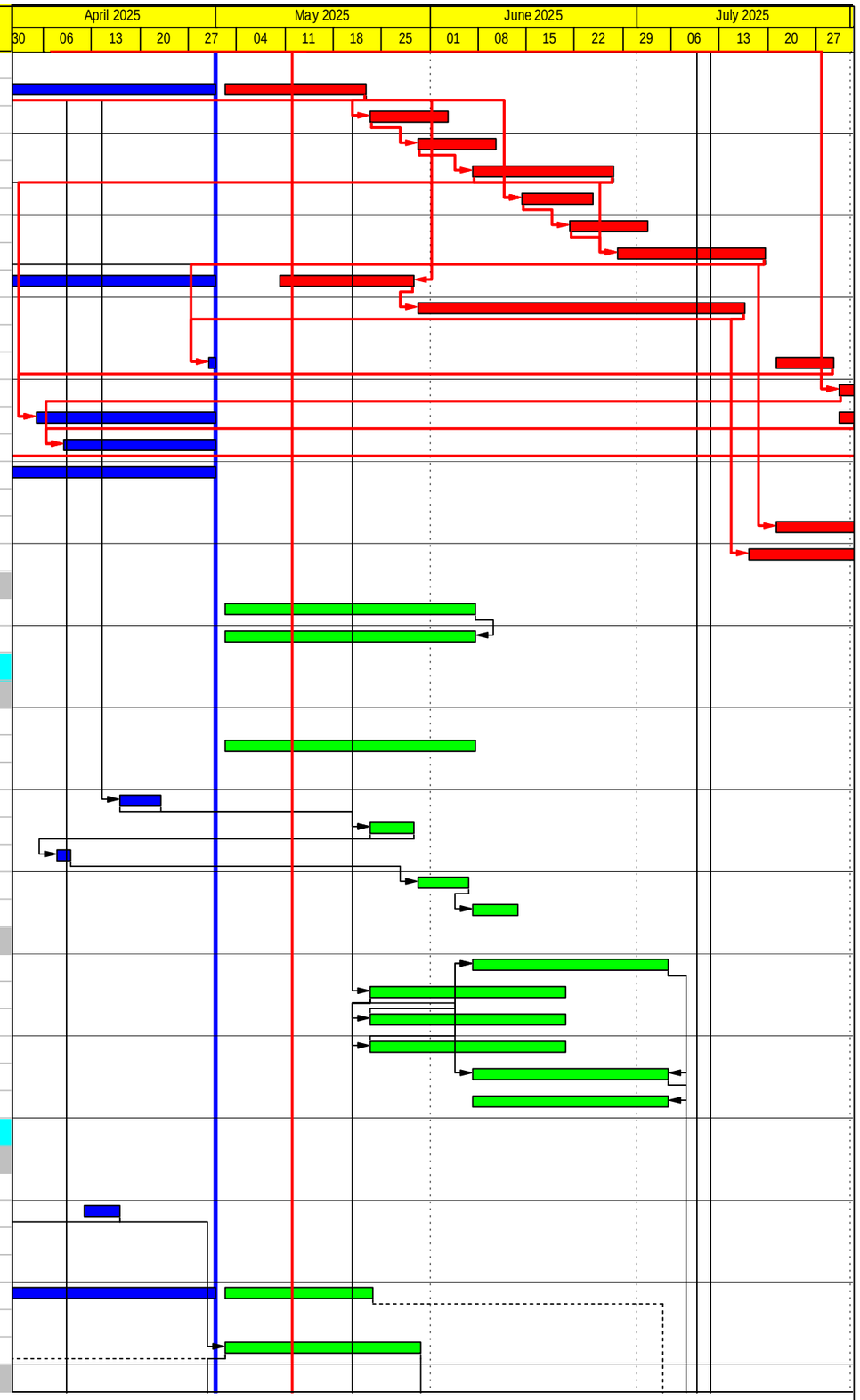
Activity ID	Activity Name	Rem Dur	Early Start	Early Finish
- Parapet				
C4-3005	C4 Seal Temporary Opening	17	24-Mar-25 A	22-May-25
C4-3010	C4-04 to C4-03 N/B Parapet Skin Erection/Cast Kicker (72m @ 20m/day)	9	23-May-25	03-Jun-25
C4-3020	C4-04 to C4-03 N/B Parapet Rebar+Cast-in Items (72m @ 30m/day)	9	30-May-25	10-Jun-25
C4-3025	C4-04 to C4-03 N/B Parapet Cast Concrete (72m 1no 12m-mould @ 3d cycle)	18	07-Jun-25	27-Jun-25
C4-3030	C4-04 to C4-03 S/B Parapet Skin Erection/Cast Kicker (72m @ 20m/day)	9	14-Jun-25	24-Jun-25
C4-3040	C4-04 to C4-03 S/B Parapet Rebar+Cast-in Items (72m @ 30m/day)	9	21-Jun-25	02-Jul-25
C4-3045	C4-04 to C4-03 S/B Parapet Cast Concrete (72m 1no 12m-mould @ 3d cycle)	18	28-Jun-25	19-Jul-25
C4-3048	C4 Longitudinal Stitching (215m)	17	06-Mar-25 A	29-May-25
C4-3049	C4 Central Median (215m 2sets 12m-mould @ 4d cycle)	39	30-May-25	16-Jul-25
- Road Paving				
C4-5310	C4 S/B Make Good Surface Apply Waterproofing	8	30-Apr-25 A	29-Jul-25
C4-5320	C4 S/B Base Course	6	30-Jul-25	05-Aug-25
C4-5360	C4 N/B Make Good Surface and Apply Waterproofing	3	05-Apr-25 A	01-Aug-25
C4-5370	C4 N/B Base Course	2	09-Apr-25 A	04-Aug-25
C4-5380	C4 N/B Gratings and Gullies	3	24-Mar-25 A	07-Aug-25
- Furniture and Misc Works				
C4-4160	C4 S/B Noise Barrier NB32	24	21-Jul-25	16-Aug-25
C4-4510	C4 Road Lighting including Cabling	30	17-Jul-25	20-Aug-25
4.9.7 - Bridge C4 Ground Level Works				
C4-7200	C4 Grd Lev - Landscaping	30	02-May-25	07-Jun-25
C4-7250	C4 Grd Lev - Irrigation System	30	02-May-25	07-Jun-25
4.10 - Bridge D1				
4.10.5 - Road Works and Furniture				
- Furnitures and Misc Works				
D1-4510	D1 Road Lighting including Pillar Box and Cabling	30	02-May-25	07-Jun-25
- Road Paving and Marking				
D1-5510	D1 Make good surface and apply Waterproofing	0	17-Apr-25 A	23-Apr-25 A
D1-5520	D1 Base Course	6	23-May-25	29-May-25
D1-5550	D1 Grating and Gullies	0	08-Apr-25 A	10-Apr-25 A
D1-5560	D1 Wearing and Friction Course	6	30-May-25	06-Jun-25
D1-7260	D1 Road Marking	6	07-Jun-25	13-Jun-25
4.10.6 - Bridge D1 Ground Level Works				
D1-7000	D1 Grd Lev - Reinstatement Work	24	07-Jun-25	05-Jul-25
D1-7050	D1 Grd Lev - Drainage Work	24	23-May-25	20-Jun-25
D1-7080	D1 Grd Lev - Drainage OUTFALL_8564F	24	23-May-25	20-Jun-25
D1-7100	D1 Grd Lev - DN150 Watermain for Bridge Deck FH	24	23-May-25	20-Jun-25
D1-7200	D1 Grd Lev - Landscaping	24	07-Jun-25	05-Jul-25
D1-7250	D1 Grd Lev - Irrigation System	24	07-Jun-25	05-Jul-25
4.11 - Bridge D2				
4.11.3 - Bridge Deck				
- End-span D2/D1-04M				
D2-7605	D2/D1-04M Stitch and Stress Bottom Tendon	0	12-Apr-25 A	17-Apr-25 A
- D2-01				
- Prep Work				
D2-2153	Existing Lift - Reinstatement	18	15-Nov-24 A	23-May-25
- Stitch and Stress				
D2-2750	D2 Stress External Tendon E	24	02-May-25	30-May-25
4.11.4 - Road Works and Furniture				



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Contract ND/2019/05 - FBES (Shung Him Tong to Kau Lung Hang)

Three-Month Rolling Programme

Project ID : 3MRPNo.62
Layout : 3MRP
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3MRP			
Date	Revision	Check...	Approved
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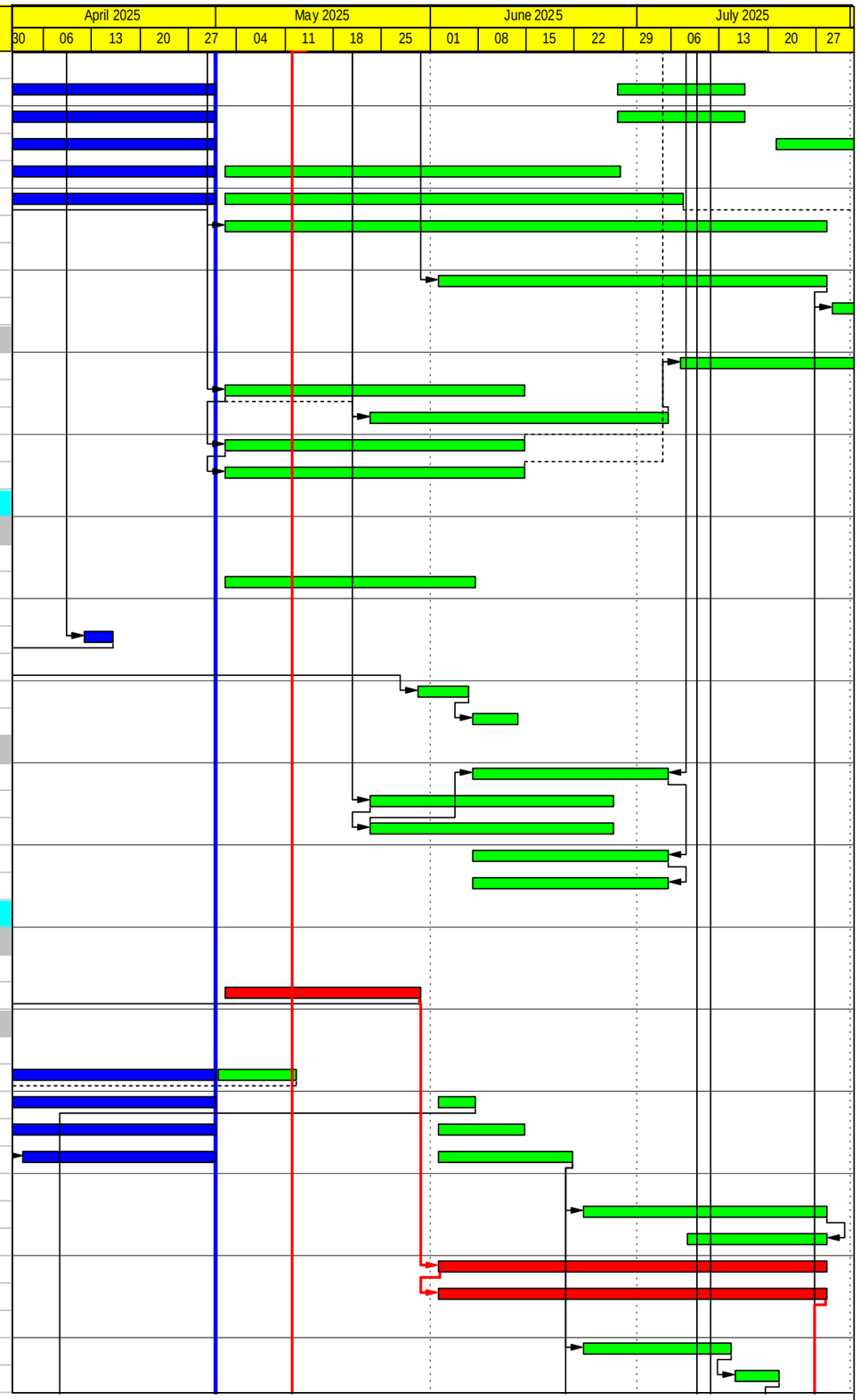
Activity ID	Activity Name	Rem Dur	Early Start	Early Finish
- Parapet				
D2-3100	D2-01 Parapet Skin Erection and Cast Kicker	15	14-Jan-25 A	16-Jul-25
D2-3120	D2-01 Parapet Rebar+Cast-in Items	15	20-Jan-25 A	16-Jul-25
D2-3130	D2-01 Parapet Cast Concrete (202mx2 - 4nos 12m-mould @ 3d cycle)	24	24-Jan-25 A	16-Aug-25
D2-3132	D2-03 & D2-02 Parapet Skin Erection	48	07-Dec-24 A	28-Jun-25
D2-3136	D2-03 & D2-02 Parapet Rebar+Cast-in Items	54	28-Feb-25 A	07-Jul-25
D2-3138	D2-03 & D2-02 Parapet Cast Concrete	72	02-May-25	28-Jul-25
- Furnitures and Misc Works				
D2-4530	D2 Void Lighting System and Access Facilities	48	02-Jun-25	28-Jul-25
D2-4535	D2 Void Drainage	30	29-Jul-25	01-Sep-25
4.11.5 - Bridge D2 Ground Level Works				
D2-7000	D2 Grd Lev - Reinstatement Works	24	07-Jul-25	02-Aug-25
D2-7050	D2 Grd Lev - Drainage Works	36	02-May-25	14-Jun-25
D2-7080	D2 Grd Lev - Drainage OUTFALL_8564H	36	23-May-25	05-Jul-25
D2-7085	D2 Grd Lev - Drainage OUTFALL_8564J	36	02-May-25	14-Jun-25
D2-7100	D2 Grd Lev - DN150 Watermain for Bridge Deck FH	36	02-May-25	14-Jun-25
4.12 - Bridge E1				
4.12.5 - Road Works and Furniture				
- Furnitures and Misc Works				
E1-4510	E1 - Road Lighting including Cabling	30	02-May-25	07-Jun-25
- Road Paving and Marking				
E1-5520	E1 Base Course	0	12-Apr-25 A	16-Apr-25 A
E1-5550	E1 Grating and Gullies	0	24-Mar-25 A	31-Mar-25 A
E1-5560	E1 Wearing and Friction Course	6	30-May-25	06-Jun-25
E1-5565	E1 Road Marking	6	07-Jun-25	13-Jun-25
4.12.6 - Bridge E1 Ground Level Works				
E1-7000	E1 Grd Lev - Reinstatement Work	24	07-Jun-25	05-Jul-25
E1-7050	E1 Grd Lev - Drainage Work	30	23-May-25	27-Jun-25
E1-7100	E1 Grd Lev - DN150 Watermain for Bridge Deck FH	30	23-May-25	27-Jun-25
E1-7200	E1 Grd Lev - Landscaping	24	07-Jun-25	05-Jul-25
E1-7250	E1 Grd Lev - Irrigation System	24	07-Jun-25	05-Jul-25
4.13 - Bridge E2				
4.13.3 - Bridge Deck				
- Stitch and Stress				
E2-2750	Bridge E2 - Stress External Tendon E	24	02-May-25	30-May-25
4.13.4 - Road Works and Furniture				
- Parapet				
E2-3010	Bridge E2 - Obtain MTRC Consent for Parepet Construction	12	01-Jan-24 A	12-May-25
E2-3020	E2 Parapet Skin Erection and Cast Kicker (246mx2 @ 20m/day)	6	19-Feb-25 A	07-Jun-25
E2-3040	E2 Parapet Rebar+Cast-in Items (246mx2 @ 30m/day)	12	18-Mar-25 A	14-Jun-25
E2-3050	E2 Parapet Cast Concrete (246mx2 - 4nos 12m-mould @ 3d cycle)	18	03-Apr-25 A	21-Jun-25
- Furnitures and Misc Works				
E2-4500	Bridge E2 - Road Furniture	30	23-Jun-25	28-Jul-25
E2-7260	Bridge E2 - Road Lighting including Cabling	18	08-Jul-25	28-Jul-25
E2-7270	Bridge E2 - Void Lighting System and Access Facilities	48	02-Jun-25	28-Jul-25
E2-7275	Bridge E2 - Void Drainage	48	02-Jun-25	28-Jul-25
- Road Paving and Marking				
E2-5510	E2 Make good surface and apply Waterproofing	18	23-Jun-25	14-Jul-25
E2-5520	E2 Base Course	6	15-Jul-25	21-Jul-25



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Three-Month Rolling Programme

Project ID : 3MRPNo.62
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3MRP			
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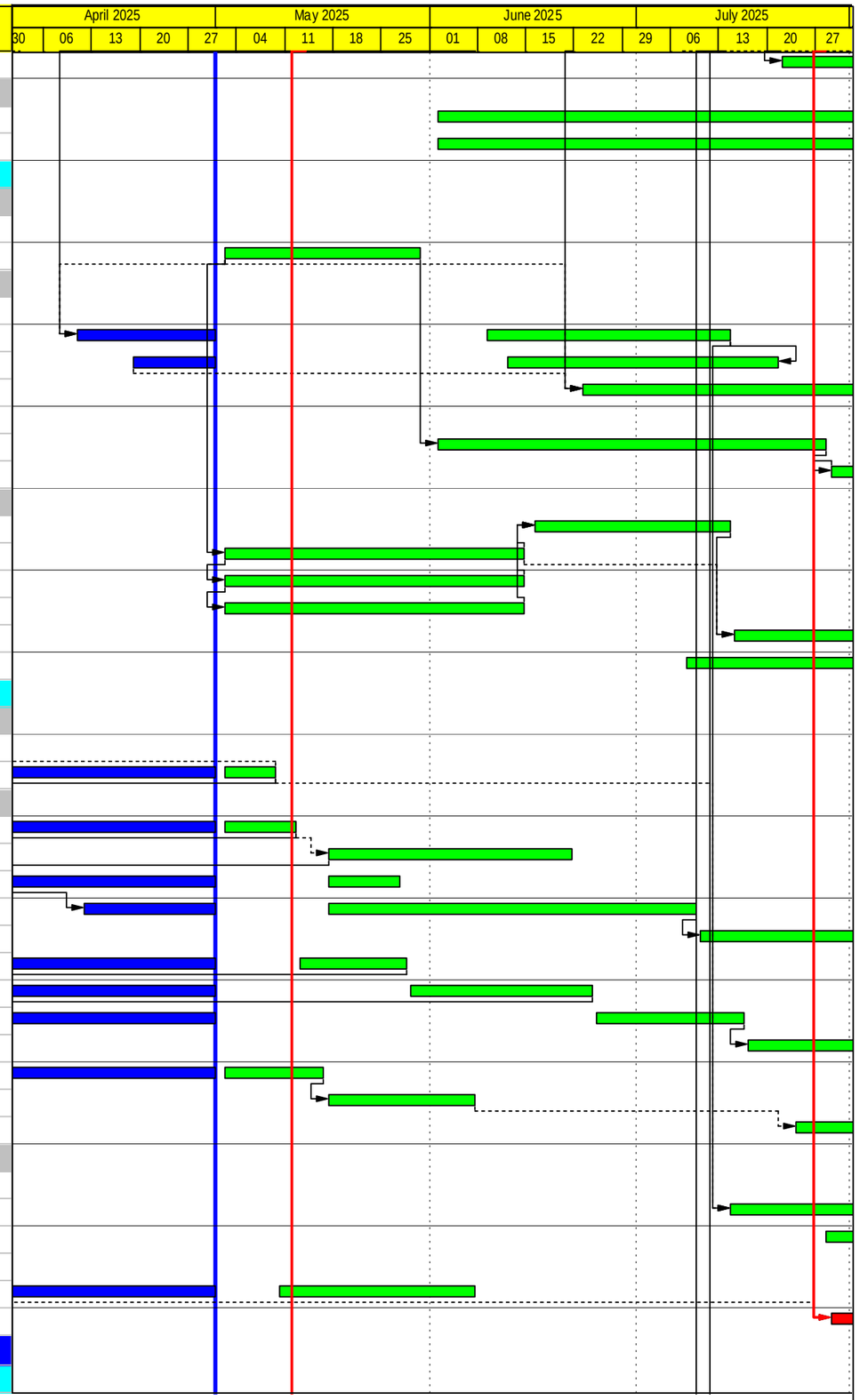
Activity ID	Activity Name	Rem Dur	Early Start	Early Finish
E2-5530	E2 Gratings and Gullies	18	22-Jul-25	11-Aug-25
4.13.5 - Bridge E2 Ground Level Works				
E2-7050	E2 Grd Lev - Drainage Work	60	02-Jun-25	11-Aug-25
E2-7100	E2 Grd Lev - DN150 Watermain for Bridge Deck FH	60	02-Jun-25	11-Aug-25
4.14 - Bridge E3				
4.14.4 - Bridge Deck				
- Stitch and Stress				
E3-2750	Bridge E3 - Stress External Tendon E	24	02-May-25	30-May-25
4.14.5 - Road Works and Furniture				
- Parapet				
E3-3020	E3 Parapet Skin Erection and Cast Kicker (362mx2 @ 20m/day)	30	11-Apr-25 A	14-Jul-25
E3-3040	E3 Parapet Rebar+Cast-in Items (362mx2 @ 30m/day)	32	19-Apr-25 A	21-Jul-25
E3-3050	E3 Parapet Cast Concrete (362mx2 - 4nos 12m-mould @ 3d cycle)	45	23-Jun-25	14-Aug-25
- Furnitures and Misc Works				
E3-7270	E3 - Void Lighting System and Access Facilities	48	02-Jun-25	28-Jul-25
E3-7550	E3 - Void Drainage	30	29-Jul-25	01-Sep-25
4.14.6 - Bridge E3 Ground Level Works				
E3-7000	E3 Grd Lev - Reinstatement Works	24	16-Jun-25	14-Jul-25
E3-7050	E3 Grd Lev - Drainage Works	36	02-May-25	14-Jun-25
E3-7080	E3 Grd Lev - Drainage OUTFALL_8564K	36	02-May-25	14-Jun-25
E3-7100	E3 Grd Lev - DN150 Watermain for Bridge Deck FH	36	02-May-25	14-Jun-25
E3-7200	E3 Grd Lev - Landscaping	18	15-Jul-25	04-Aug-25
E3-7250	E3 Grd Lev - Irrigation System	24	08-Jul-25	04-Aug-25
4.15 - Bridge E4				
4.15.4 - Bridge Deck				
- Stitch and Stress				
E4-2750	E4 - Stress External Tendon	6	24-Mar-25 A	09-May-25
4.15.5 - U-trough/Ramp Structure				
E4-2820	U-trough/Ramp - Excavation bay 17-21	8	11-Dec-24 A	12-May-25
E4-2825	DS-11 Foundation (right)	30	17-May-25	21-Jun-25
E4-2830	E4-03 Ramp U-trough - Base Slab bay 17-21	9	24-Dec-24 A	27-May-25
E4-2840	E4-03 Ramp U-trough - Walls bay 17-21	44	12-Apr-25 A	09-Jul-25
E4-2850	E4-03 Ramp U-trough - Backfilling/Reinstatement bay 17-21	24	10-Jul-25	06-Aug-25
E4-2852	E4-03 Ramp Ret Wall - Excavation bay 22-25	14	22-Feb-25 A	28-May-25
E4-2854	E4-03 Ramp Ret Wall - Base Slab bay 22-25	22	04-Mar-25 A	24-Jun-25
E4-2856	E4-03 Ramp Ret Wall - Walls bay 22-25	18	31-Mar-25 A	16-Jul-25
E4-2858	E4-03 Ramp Ret Wall - Backfilling/Reinstatement bay 22-25	18	17-Jul-25	06-Aug-25
E4-7325	E4-03 Abutment Ret Wall - Walls (4 bays)	12	24-Dec-24 A	16-May-25
E4-7335	E4-03 Abutment Ret Wall - Backfilling/Reinstatement	18	17-May-25	07-Jun-25
E4-7345	E4 Slip Road - Road Formation	12	24-Jul-25	06-Aug-25
4.15.6 - Road Works and Furniture				
- Parapet				
E4-3510	E4 Parapet Skin Erection and Cast Kicker (181mx2 @ 20m/day)	30	14-Jul-25	18-Aug-25
E4-3530	E4 Parapet Rebar+Cast-in Items (181mx2 @ 30m/day)	24	28-Jul-25	25-Aug-25
- Furnitures and Misc Works				
E4-7270	E4 - Void Lighting System and Access Facilities	24	15-Mar-25 A	07-Jun-25
E4-7275	E4 - Void Drainage	48	29-Jul-25	22-Sep-25
5.0 - Fanling Highway Associated Works				
5.1 - Sign Gantry				



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Date	Revision	Check...	Approved
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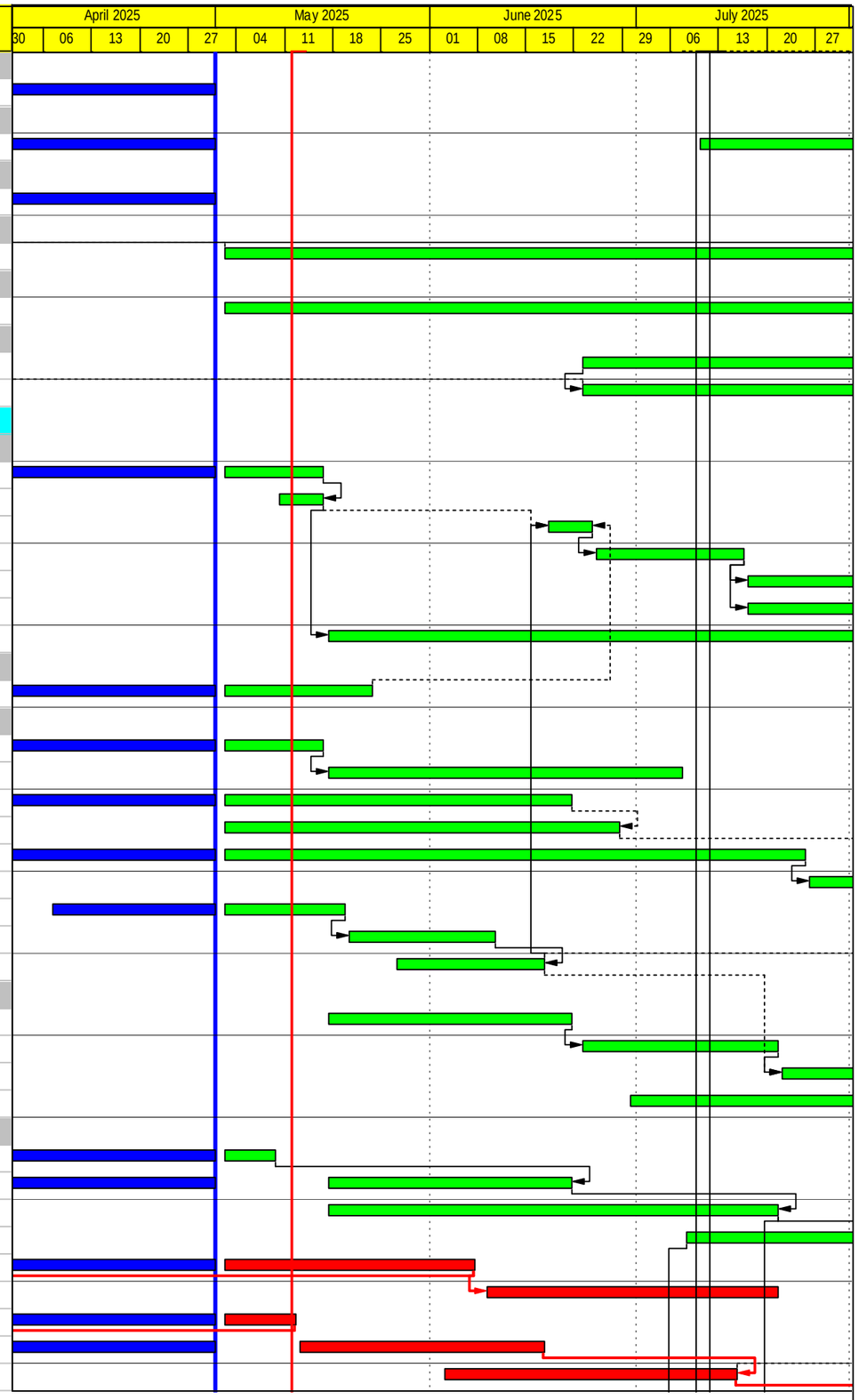
Activity ID	Activity Name	Rem Dur	Early Start	Early Finish
5.1.1 - FADS 20				
FHY-1670	FADS 20 - Off-site Fabrication	60	18-Jan-25 A	22-Oct-25
5.1.2 - DS 21B				
FHY-1700	DS21B - Off-site Fabrication	64	07-Feb-25 A	22-Sep-25
5.1.3 - DS 20				
FHY-1730	DS 20 - Off-site Fabrication	12	14-Dec-24 A	01-Sep-25
5.1.4 - DS 21A				
FHY-1780	DS21A - Off-site Fabrication	90	02-May-25	18-Aug-25
5.1.5 - FADS 21				
FHY-1810	FADS21 - Off-site Fabrication	78	02-May-25	04-Aug-25
5.1.6 - ADS 21				
FHY-1840	ADS 21 - TTA Preparation	36	23-Jun-25	04-Aug-25
FHY-1940	ADS21 - Off-site Fabrication	90	23-Jun-25	08-Oct-25
5.2 - Fanling Highway Noise Barrier				
5.2.1 - Noise Barrier NB108				
FHY-1145	NB108 - TTA 3rd Submission	12	26-Feb-25 A	16-May-25
FHY-1146	NB108 - TTA TMLG Approval	6	10-May-25	16-May-25
FHY-1150	NB108 - TTA Trial Run and Implementation	6	18-Jun-25	24-Jun-25
FHY-1241	NB108 - Site Clearance and Utiltiy Detection	18	25-Jun-25	16-Jul-25
FHY-1242	NB108 - Bay 3-8 Pre-bored H-pile	60	17-Jul-25	24-Sep-25
FHY-1252	NB108 - Bay 9-18 Sheet Piles	48	17-Jul-25	10-Sep-25
FHY-1318	NB108 - Fabrication and Delivery	120	17-May-25	08-Oct-25
5.2.2 - Noise Barrier NB70				
FHY-1430	NB70 - Bay 1-6 Backfilling and Reinstatement	18	22-Jan-25 A	23-May-25
5.2.3 - Noise Barrier NB109				
FHY-1519	NB109 - Bay 5-13 Backfilling and Reinstatement	12	12-Jan-24 A	16-May-25
FHY-1520	NB109 - Bay 5-13 Road Works	42	17-May-25	07-Jul-25
FHY-1529	NB109 - Bay 14-20 Backfilling and Reinstatement	42	30-Nov-24 A	21-Jun-25
FHY-1530	NB109 - Bay 14-20 Road Works	48	02-May-25	28-Jun-25
FHY-1555	NB109 - Fabrication and Delivery	70	31-Oct-24 A	25-Jul-25
FHY-1560	NB109 - Noise Panel	60	26-Jul-25	04-Oct-25
FHY-2480	NB109 - Bay 1-4 Stem Wall	14	07-Apr-25 A	19-May-25
FHY-2490	NB109 - Bay 1-4 Backfilling and Reinstatement	18	20-May-25	10-Jun-25
FHY-2500	NB109 - Bay 1-4 Road Works	18	27-May-25	17-Jun-25
5.2.4 - Noise Barrier NB66				
FHY-1156	NB66 - TTA 3rd Submission	30	17-May-25	21-Jun-25
FHY-1157	NB66 - TTA TMLG Approval	24	23-Jun-25	21-Jul-25
FHY-1160	NB66 -TTA Trial Run and Implementation	12	22-Jul-25	04-Aug-25
FHY-1382	NB66 - Fabrication and Delivery	180	30-Jun-25	02-Feb-26
5.2.5 - Fanling Bypass N/B Slip Road				
TSW-4183	Noise Barrier NB29 U-shaped (bays 1 to 5) - Excavation	6	24-Feb-25 A	09-May-25
TSW-4185	Noise Barrier NB29 U-shaped (bays 1 to 5) - Base Slab	30	14-Mar-25 A	21-Jun-25
TSW-4190	Noise Barrier NB29 U-shaped (bays 1 to 5) - Walls	54	17-May-25	21-Jul-25
TSW-4195	Noise Barrier NB29 U-shaped (bays 1 to 5) - Backfilling	36	08-Jul-25	18-Aug-25
TSW-4210	Noise Barrier NB29 U-shaped (bays 6 to 15) - Backfilling & Reinstatement	30	26-Mar-25 A	07-Jun-25
TSW-4215	Reinstate Existing Noise Barrier Near D2-04M	36	09-Jun-25	21-Jul-25
TSW-4220	Noise Barrier NB29 - Bay 20-23 Sheet Piles	8	26-Feb-25 A	12-May-25
TSW-4225	Noise Barrier NB29 - Bay 20-23 Excavation	30	24-Mar-25 A	17-Jun-25
TSW-4230	Noise Barrier NB29 - Bay 20-23 Footing	36	03-Jun-25	15-Jul-25



CRCC - Paul Y. Joint Venture

Actual Work
Non-critical
Critical
Milestone

Contract ND/2019/05 - FBES (Shung Him Tong to Kau Lung Hang)

Three-Month Rolling Programme

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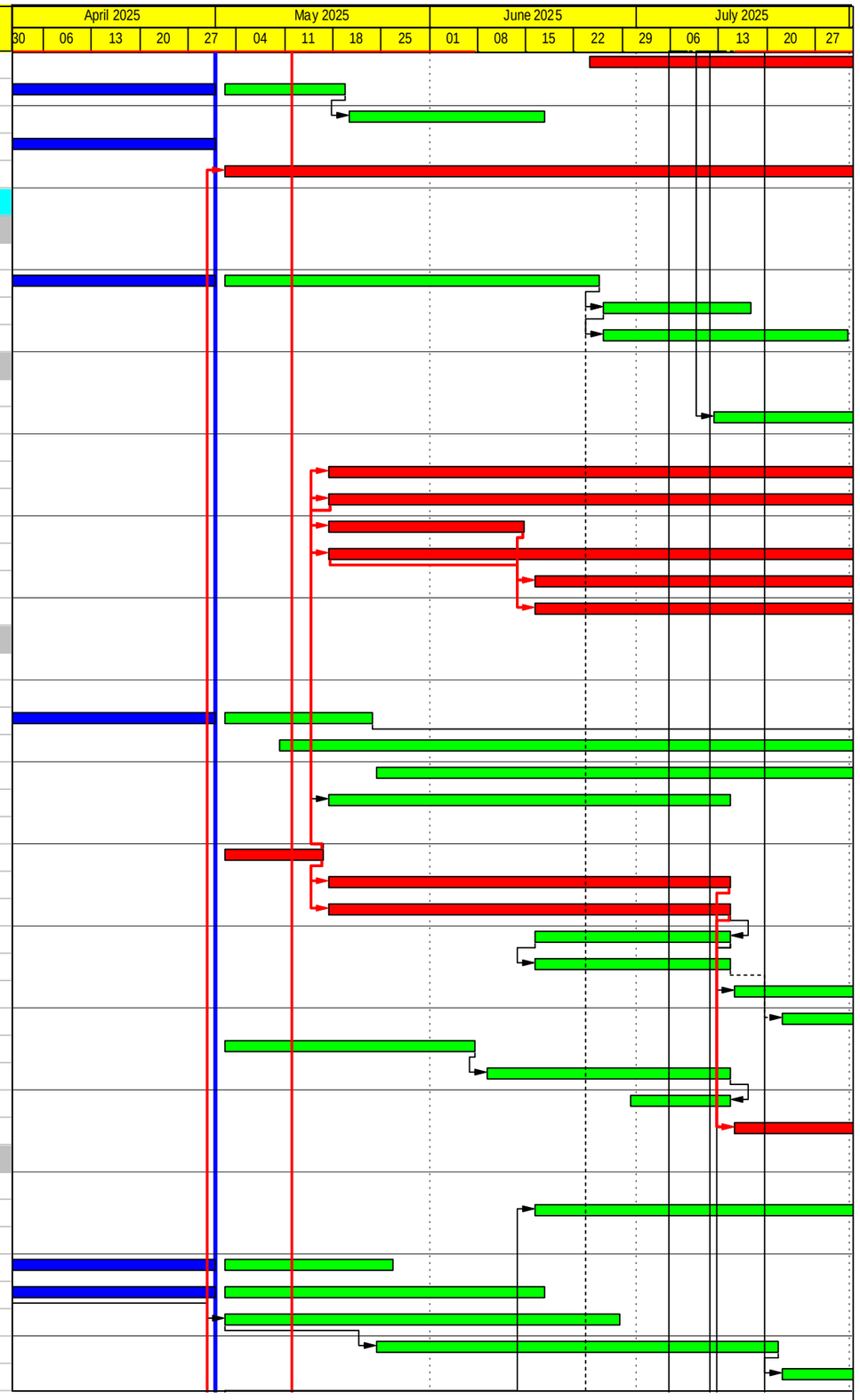
Activity ID	Activity Name	Rem Dur	Early Start	Early Finish
TSW-4235	Noise Barrier NB29 - Bay 20-23 Stem Wall	36	24-Jun-25	05-Aug-25
TSW-4250	Noise Barrier NB29 - Bay 16-19 Stem Wall	14	24-Feb-25 A	19-May-25
TSW-4255	Noise Barrier NB29 - Bay 16-19 Backfilling and Reinstatement	24	20-May-25	17-Jun-25
TSW-4258	Noise Barrier NB29 - Stem Wal Profile	24	01-Jul-24 A	30-Sep-25
TSW-4260	Noise Barrier NB29 - Fabrication and Delivery	120	02-May-25	22-Sep-25
5.3 - Tai Wo Service Road East (TWSR-East)				
5.3.1 - TWSR-East HKY FB Extension				
- Lift Installation				
FBE-1285	HKY FB East Lift - Installation	45	28-Feb-25 A	25-Jun-25
FBE-1290	HKY FB East Lift - T&C	18	26-Jun-25	17-Jul-25
FBE-1295	HKY FB East Lift - Stautory Inspection	30	26-Jun-25	31-Jul-25
5.3.2 - TWSR East (1) Adjacent to Cycle Track				
- Ch100 to Ch200				
TSE-2381	TWSR-East Ch100-Ch200 N/B - Road Lighting including Cabling	24	12-Jul-25	08-Aug-25
- Ch325 to Ch400				
TSE-2103	TWSR Ch325-Ch550 - Lighting Removal/Install Temporary Lighting	120	17-May-25	08-Oct-25
TSE-2105	TWSR East CH325-Ch550 N/B - Site Formation	120	17-May-25	08-Oct-25
TSE-2108	TWSR East CH325-Ch550 N/B - New Feature FS06 Fill Slope	24	17-May-25	14-Jun-25
TSE-2110	TWSR East CH325-Ch550 N/B - Drainage and Utilities	120	17-May-25	08-Oct-25
TSE-2130	TWSR East CH325-Ch550 N/B - Road Works	112	16-Jun-25	27-Oct-25
TSE-2131	TWSR East CH325-Ch550 N/B - Road Lighting including Cabling	112	16-Jun-25	27-Oct-25
5.3.3 - TWSR-East Bus-Bus Interchange				
- Bus-Bus Interchange Shelter				
- Public Toilet				
BBI-1018	BBI Public Toilet - Lighting+Elec+BS+Fit-out Procurement/Delivery	18	10-Aug-24 A	23-May-25
BBI-1100	BBI Public Toilet - BS, Finishing and Fixtures	72	10-May-25	04-Aug-25
BBI-1120	BBI Public Toilet - Bio-treatment Plant Installation	60	24-May-25	04-Aug-25
BBI-1250	BBI Covered Walkway - Remaining Works	48	17-May-25	14-Jul-25
- TWSR East (2) BBI Exit to Fanling Highway				
BBI-1585	BBI - TTA Stage 5 - Divert BBI Traffic Back to Road D400	12	02-May-25	16-May-25
BBI-1590	BBI Exit to FH - New Feature FS02 (Fill Slope)	48	17-May-25	14-Jul-25
BBI-1595	BBI Exit to FH - New Feature FS03 (Fill Slope)	48	17-May-25	14-Jul-25
BBI-1710	Road D400 Ch450-Ch550 - Drainage, Sewerage and Utilities	24	16-Jun-25	14-Jul-25
BBI-1715	E-DS64 Sign Temporary Relocation	24	16-Jun-25	14-Jul-25
BBI-1720	Road D400 Ch450-Ch550 - Roadworks and Furniture	18	15-Jul-25	04-Aug-25
BBI-1730	Road D400 Ch450-Ch550 - Road Lighting including Cabling	12	22-Jul-25	04-Aug-25
BBI-1732	Road D400 Ch500-Ch600 Adj to NB110 - Drainage, Sewerage and Utilities	30	02-May-25	07-Jun-25
BBI-1734	Road D400 Ch500-Ch600 Adj to NB110 - Roadworks and Furniture	30	09-Jun-25	14-Jul-25
BBI-1736	Road D400 Ch500-Ch600 Adj to NB110 - Road Lighting including Cabling	12	30-Jun-25	14-Jul-25
BBI-1740	Road D400 Ch430-Ch450 - Site Formation	18	15-Jul-25	04-Aug-25
5.3.5 - TWSR-East Noise Barrier				
- Noise Barrier NB110 (Typ FV3)				
TSE-1368	Noise Barrier NB110 - Fabrication and Delivery	120	16-Jun-25	06-Nov-25
- Noise Barrier NB68				
TSE-1435	Noise Barrier NB68 - Sheet Piling (8 bays)	20	19-Mar-25 A	26-May-25
TSE-1440	Noise Barrier NB68 - Excavation (8 bays)	38	28-Mar-25 A	17-Jun-25
TSE-1445	Noise Barrier NB68 - Footing (8 bays)	48	02-May-25	28-Jun-25
TSE-1455	Noise Barrier NB68 - Stem Wal (8 bays)	48	24-May-25	21-Jul-25
TSE-1460	Noise Barrier NB68 - Backfilling and Reinstatement (8 bays)	18	22-Jul-25	11-Aug-25



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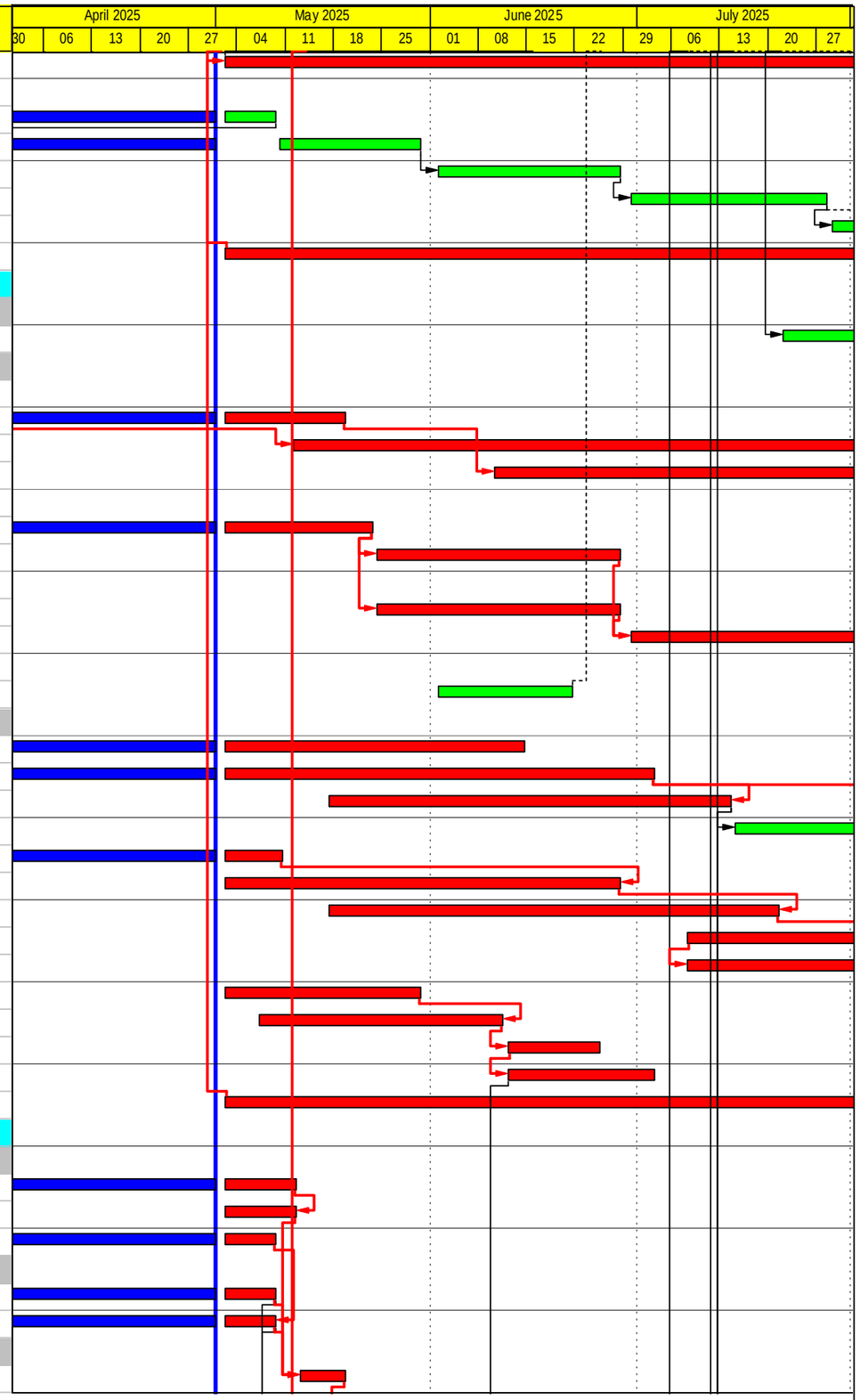
Activity ID	Activity Name	Rem Dur	Early Start	Early Finish
TSE-1568	Noise Barrier NB68 - Fabrication and Delivery	100	02-May-25	29-Aug-25
- Noise Barrier NB69				
TSE-1472	Noise Barrier NB69 - Bay 1-2 Sheet Piles	6	21-Feb-25 A	09-May-25
TSE-1473	Noise Barrier NB69 - Bay 1-2 Excavation	18	28-Mar-25 A	30-May-25
TSE-1474	Noise Barrier NB69 - Bay 1-2 Footing	24	02-Jun-25	28-Jun-25
TSE-1475	Noise Barrier NB69 - Bay 1-2 Stem Wall	24	30-Jun-25	28-Jul-25
TSE-1476	Noise Barrier NB69 - Bay 1-2 Backfilling and Reinstatement	18	29-Jul-25	18-Aug-25
TSE-1565	Noise Barrier NB69 - Fabrication and Delivery	100	02-May-25	29-Aug-25
5.4 - Tai Wo Service Road West (TWSR-West)				
5.4.2 - TWSR-West Ch000 to Ch200				
TSW-4112	TWSRW Ch0-Ch150 N/B - Roadworks+Footpath TTA Stage 7A	60	22-Jul-25	29-Sep-25
5.4.4 - TWSR-West Ch450 to Ch600				
- Lift				
TSW-4555	HKYFB West - Lift & FB Steel Erection	14	31-Mar-25 A	19-May-25
TSW-4560	HKYFB West - Lift & FB BS, ABWF and Finishing	78	12-May-25	12-Aug-25
TSW-4580	HKYFB West - Lift Installation	54	10-Jun-25	12-Aug-25
- Stairs				
TSW-4631	HKY-AB2 / NB2 / NB1 Pile Caps	18	22-Feb-25 A	23-May-25
TSW-4632	HKY-AB2 / NB2 / NB1 Walls	30	24-May-25	28-Jun-25
- Noise Barrier NB77				
TSW-4670	NB77 Bay 1, 2 & 3 Footings	30	24-May-25	28-Jun-25
TSW-4675	NB77 Bay 1, 2 & 3 Walls	30	30-Jun-25	04-Aug-25
- Power Supply for HKFB Extension				
FBE-1420	HKYFB East - Power Connection and Power On	18	02-Jun-25	21-Jun-25
5.4.7 - TWSR Noise Barrier				
TSW-1285	NB30 - Bay 13-20 - Excavation	36	22-Feb-25 A	14-Jun-25
TSW-1290	NB30 - Bay 13-20 - Pile Caps & Walls	51	17-Mar-25 A	03-Jul-25
TSW-1292	NB30 - Bay 13-20 - Backfilling & Reinstatement	48	17-May-25	14-Jul-25
TSW-1295	NB30 - Bay 13-20 - Watermain	60	15-Jul-25	22-Sep-25
TSW-1325	NB30 - Bay 5-12 - Pre-bored H-piles (88 nos - 1.5 rigs)	7	14-Jan-25 A	10-May-25
TSW-1330	NB30 - Bay 5-12 - Excavation	48	02-May-25	28-Jun-25
TSW-1335	NB30 - Bay 5-12 - Pile Caps & Walls	54	17-May-25	21-Jul-25
TSW-1340	NB30 - Bay 5-12 - Backfilling and Reinstatement	24	08-Jul-25	04-Aug-25
TSW-1378	NB30 - Bay 5-12 - Watermain	48	08-Jul-25	01-Sep-25
TSW-1400	NB30 - Bay 1-4 - Excavation	24	02-May-25	30-May-25
TSW-1405	NB30 - Bay 1-4 - Pile Caps & Walls	30	07-May-25	11-Jun-25
TSW-1410	NB30 - Bay 1-4- Backfilling and Reinstatement	12	12-Jun-25	25-Jun-25
TSW-1415	NB30 - Bay 1-4- Watermain	18	12-Jun-25	03-Jul-25
TSW-1450	NB30 - Fabrication and Delivery	120	02-May-25	22-Sep-25
5.5 - Jockey Club Road				
5.5.3 - TTA Stage 2				
JCR-2210	THV Junction N/B - Road/Footpath Paving and Road Marking	8	27-Jan-25 A	12-May-25
JCR-2215	THV Junction N/B - Road Lighting	8	02-May-25	12-May-25
JCR-2755	JCR N/B - PMI 410 Water Works, Road & Drainage, & Slope FS05	6	16-Dec-24 A	09-May-25
5.5.4 - TTA Stage 3				
JCR-2725	THV Island - S/B Traffic Signal Duct and Utilities & Drainage	6	29-Aug-24 A	09-May-25
JCR-2735	JCR N/B - Slope F63 Rem Works, Street Furniture & PMI 258 Water Works	6	16-Jul-24 A	09-May-25
5.5.5 - TTA Stage 4				
JCR-2600	JCR TTA Stage 4 Implementation	6	13-May-25	19-May-25



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Three-Month Rolling Programme

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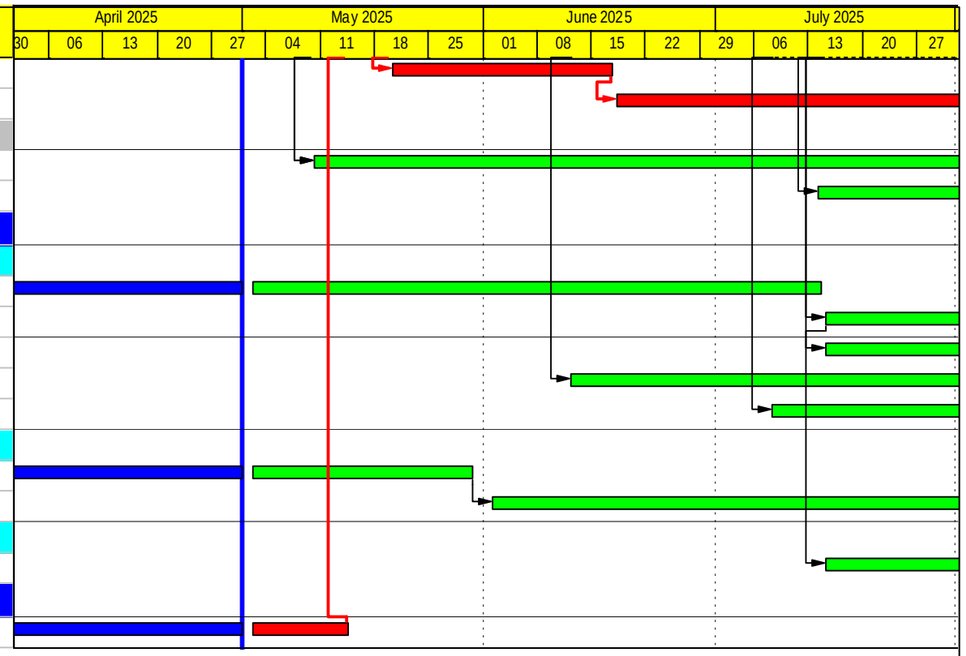
Activity ID	Activity Name	Rem Dur	Early Start	Early Finish
JCR-2620	JCR S/B and N/B - Resurfacing and Road Marking & Detection Loop	24	20-May-25	17-Jun-25
JCR-2745	THV - Re-levelling Concrete +Bitumin Paving & Detection Loop	42	18-Jun-25	06-Aug-25
5.5.6 - Landscaping				
JCR-1120	JCR - Landscaping	72	10-May-25	04-Aug-25
JCR-1130	TWSRW - Irrigation System	36	14-Jul-25	23-Aug-25
6.0 - TCSS Works				
6.2 - Key Date 3A and Section 9A				
TCS-320	Section 9A TCCS - Equipment Manufacturing/Delivery	60	02-Dec-24 A	14-Jul-25
TCS-333	Section 9A TCSS - Ducts/Drawpit at Road D400 Ch300 to Ch500	60	15-Jul-25	22-Sep-25
TCS-341	Section 9A TCSS - Ducts/Drawpit TWSRW Ch600 to Ch800	72	15-Jul-25	08-Oct-25
TCS-342	Section 9A TCSS - Ducts/Drawpit TWSRW Ch450 to Ch600	60	12-Jun-25	21-Aug-25
TCS-344	Section 9A TCSS - Ducts/Drawpit TWSRW Ch100 to Ch250	36	08-Jul-25	18-Aug-25
6.3 - Key Date 3B and Section 9B				
TCS-390	Traffic Defector System - Equipment Manufacturing/Delivery	24	02-Dec-24 A	30-May-25
TCS-410	Traffic Defector System - Equipment Installation	120	02-Jun-25	22-Oct-25
6.4 - Section 9C				
TCS-453	Section 9C TCSS - Ducts/Drawpit at Road D400 Ch300 to Ch500	60	15-Jul-25	22-Sep-25
7.0 - Miscellaneous Works				
MIS-100	Preservation and Protection of Trees	10	28-Oct-20 A	14-May-25



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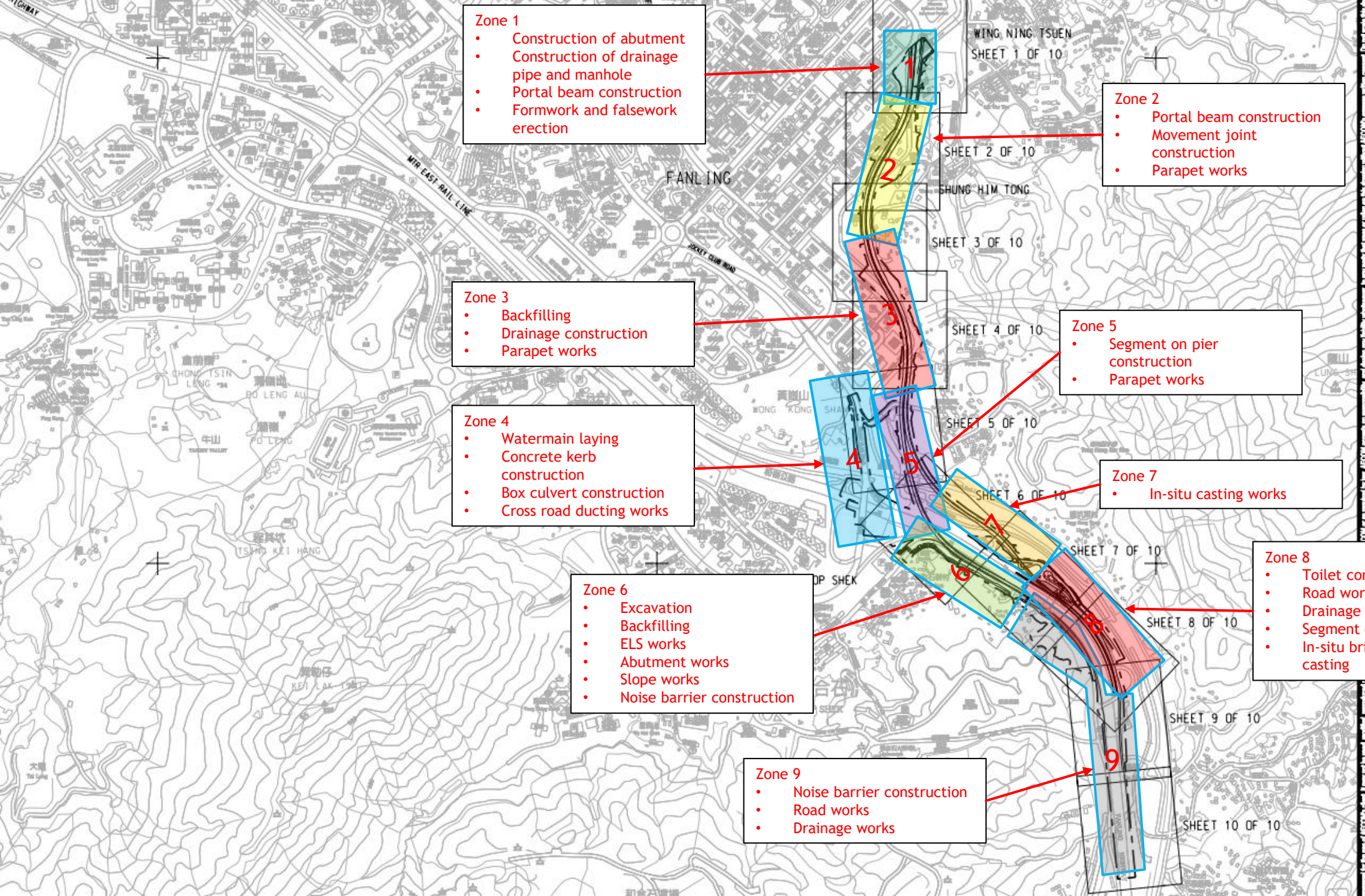

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ISSUE/REVISION

-	JUN-19	TENDER DRAWING	RPCM
IR	DATE	DESCRIPTION	CHK.

STATUS

SCALE

DIMENSION UNIT
METRES

PROJECT NO.
60335576

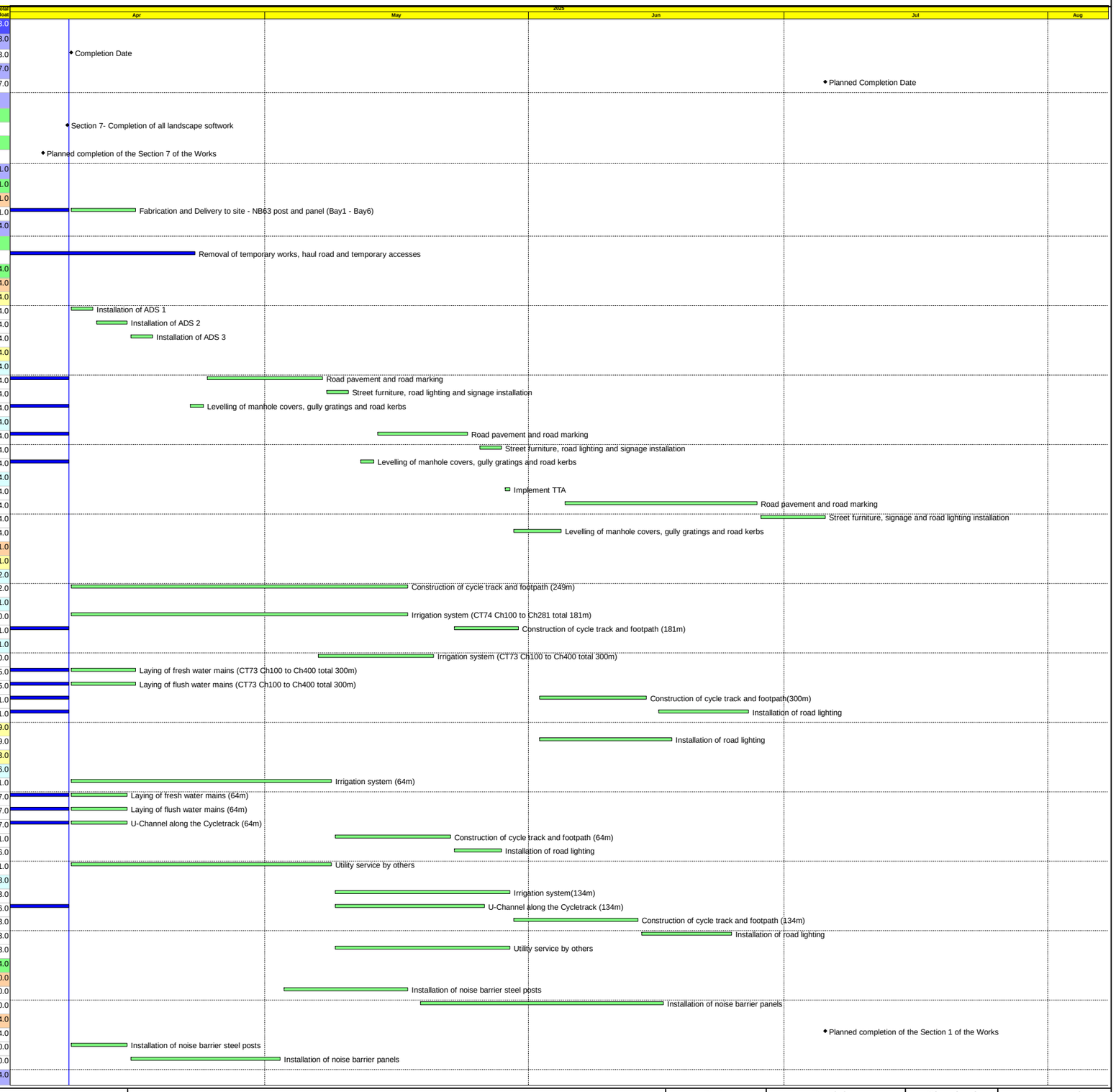
CONTRACT NO.
ND/2019/05

SHEET TITLE
KEY PLAN AND LOCATION PLAN

Construction Programme of ND/2019/07

Contract No. ND/2019/07 Fanling North New Development Area, Phase 1: Site Formation and Infrastructure Works

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
Fanling North New Development Area, Phase 1: Site Formation and Infrastructure Works		701.0	09-Dec-23 A	05-Apr-26	3.0
Project Commencement and Completion		0.0	08-Apr-25	08-Apr-25	-18.0
PCC1020	Completion Date	0.0		08-Apr-25*	-18.0
Planned Completion Date		0.0	05-Jul-25	05-Jul-25	277.0
PCD1000	Planned Completion Date	0.0		05-Jul-25	277.0
Key Dates and Sectional Completion of the Works		18.0	05-Apr-25 A	07-Apr-25 A	
Contractual Sectional Completion of the Works		0.0	07-Apr-25 A	07-Apr-25 A	
KDS1070	Section 7- Completion of all landscape softwork	0.0		07-Apr-25 A	
Planned Sectional Completion of the Works		0.0	05-Apr-25 A	05-Apr-25 A	
KDS1170	Planned completion of the Section 7 of the Works	0.0		05-Apr-25 A	
Preliminaries, Contractor's Design, Method Statement Submission and Approval		36.0	20-Jan-25 A	15-Apr-25	311.0
Tendering and Procurement for Major Subcontractor		36.0	20-Jan-25 A	15-Apr-25	311.0
Procurement for NB Post and Panel		36.0	20-Jan-25 A	15-Apr-25	311.0
TDS1180-6	Fabrication and Delivery to site - NB63 post and panel (Bay1 - Bay6)	36.0	20-Jan-25 A	15-Apr-25	311.0
Section 1- Site Formation and Infrastructure Works in Area A		356.0	09-Dec-23 A	05-Jul-25	224.0
Site Formation (Portion III- Area A 4900m2)		30.0	14-Mar-25 A	22-Apr-25 A	
S1-SF1650	Removal of temporary works, haul road and temporary accesses	30.0	14-Mar-25 A	22-Apr-25 A	
Drainage, Sewerage, Waterworks and Road Works		356.0	09-Dec-23 A	05-Jul-25	224.0
Along Ma Sik Road		85.0	20-Mar-25 A	05-Jul-25	224.0
Advance Directional Sign		9.0	08-Apr-25	17-Apr-25	224.0
S1-CS2455	Installation of ADS 1	3.0	08-Apr-25	10-Apr-25	224.0
S1-CS2475	Installation of ADS 2	3.0	11-Apr-25	14-Apr-25	224.0
S1-CS2495	Installation of ADS 3	3.0	15-Apr-25	17-Apr-25	224.0
Low noise road surfacing on existing concrete carriageway		85.0	20-Mar-25 A	05-Jul-25	224.0
TTA - Closure of Ma Sik Road Eastbound Slow Lane between Wo Tai Street and Site Boundary		39.0	20-Mar-25 A	10-May-25	224.0
S1-CS1300	Road pavement and road marking	10.0	22-Mar-25 A	07-May-25	224.0
S1-CS1305	Street furniture, road lighting and signage installation	3.0	08-May-25	10-May-25	224.0
S1-CS2525	Levelling of manhole covers, gully gratings and road kerbs	2.0	20-Mar-25 A	23-Apr-25	224.0
TTA - Closure of Ma Sik Road Eastbound Fast Lane for water main works		38.0	22-Mar-25 A	28-May-25	224.0
S1-CS1760	Road pavement and road marking	10.0	24-Mar-25 A	24-May-25	224.0
S1-CS1770	Street furniture, road lighting and signage installation	3.0	26-May-25	28-May-25	224.0
S1-CS2535	Levelling of manhole covers, gully gratings and road kerbs	2.0	22-Mar-25 A	13-May-25	224.0
Remaining Road Works on Westbound of Ma Sik Road		31.0	29-May-25	05-Jul-25	224.0
S1-CS1370	Implement TTA	1.0	29-May-25	29-May-25	224.0
S1-CS1630	Road pavement and road marking	20.0	05-Jun-25	27-Jun-25	224.0
S1-CS1640	Street furniture, signage and road lighting installation	6.0	28-Jun-25	05-Jul-25	224.0
S1-CS2545	Levelling of manhole covers, gully gratings and road kerbs	4.0	30-May-25	04-Jun-25	224.0
Along Proposed Cycletrack and Footpath		347.0	09-Dec-23 A	26-Jun-25	231.0
Works in Portion I		323.0	09-Dec-23 A	26-Jun-25	231.0
Works in Portion I CT73 (Ch400 to Ch649)		30.0	08-Apr-25	17-May-25	242.0
S1-CS1480	Construction of cycle track and footpath (249m)	30.0	08-Apr-25	17-May-25	242.0
Works in Portion I CT74		45.0	08-Feb-25 A	30-May-25	231.0
S1-CS1491	Irrigation system (CT74 Ch100 to Ch281 total 181m)	30.0	08-Apr-25	17-May-25	240.0
S1-CS1497	Construction of cycle track and footpath (181m)	12.0	08-Feb-25 A	30-May-25	231.0
Works in Portion I CT73 (Ch100 to Ch400)		323.0	09-Dec-23 A	26-Jun-25	231.0
S1-CS1481	Irrigation system (CT73 Ch100 to Ch400 total 300m)	12.0	07-May-25	20-May-25	240.0
S1-CS1483	Laying of fresh water mains (CT73 Ch100 to Ch400 total 300m)	85.0	09-Dec-23 A	15-Apr-25	265.0
S1-CS1485	Laying of flush water mains (CT73 Ch100 to Ch400 total 300m)	85.0	09-Dec-23 A	15-Apr-25	265.0
S1-CS1500	Construction of cycle track and footpath(300m)	24.0	08-Feb-25 A	14-Jun-25	231.0
S1-CS1505	Installation of road lighting	20.0	11-Nov-24 A	26-Jun-25	231.0
Works in Portion II CT71 (Ch100 to Ch369.376)		14.0	02-Jun-25	17-Jun-25	239.0
S1-CS1565	Installation of road lighting	14.0	02-Jun-25	17-Jun-25	239.0
Works in Portion III CT76 (Ch100 to Ch298.277)		134.0	18-Dec-24 A	24-Jun-25	233.0
Remaining Works (next to Portion V - approx 64m)		112.0	18-Dec-24 A	28-May-25	246.0
S1-CS1580-1	Irrigation system (64m)	22.0	08-Apr-25	08-May-25	231.0
S1-CS1590-1	Laying of fresh water mains (64m)	22.0	18-Dec-24 A	14-Apr-25	247.0
S1-CS1600-1	Laying of flush water mains (64m)	22.0	18-Dec-24 A	14-Apr-25	247.0
S1-CS1610-1	U-Channel along the Cycletrack (64m)	22.0	08-Mar-25 A	14-Apr-25	247.0
S1-CS1620-1	Construction of cycle track and footpath (64m)	12.0	09-May-25	22-May-25	231.0
S1-CS1650-1	Installation of road lighting	5.0	23-May-25	28-May-25	246.0
S5-RD1660	Utility service by others	22.0	08-Apr-25	08-May-25	231.0
Remaining Works (after KD1)		88.0	08-Feb-25 A	24-Jun-25	233.0
S1-CS1580-2	Irrigation system(134m)	18.0	09-May-25	29-May-25	233.0
S1-CS1610-2	U-Channel along the Cycletrack (134m)	18.0	08-Feb-25 A	26-May-25	236.0
S1-CS1620-2	Construction of cycle track and footpath (134m)	12.0	30-May-25	13-Jun-25	233.0
S1-CS1650-2	Installation of road lighting	9.0	14-Jun-25	24-Jun-25	233.0
S5-RD1670	Utility service by others	18.0	09-May-25	29-May-25	233.0
Noise Barrier NB63		70.0	08-Apr-25	05-Jul-25	224.0
Noise Barrier NB63 (Bay 1 to Bay 6)		36.0	03-May-25	16-Jun-25	240.0
S1-NB1135	Installation of noise barrier steel posts	12.0	03-May-25	17-May-25	240.0
S1-NB1140	Installation of noise barrier panels	24.0	19-May-25	16-Jun-25	240.0
Noise Barrier NB63 (Bay 7 to Bay 8)		70.0	08-Apr-25	05-Jul-25	224.0
S1-CS1360	Planned completion of the Section 1 of the Works	0.0		05-Jul-25	224.0
S1-NB1425	Installation of noise barrier steel posts	6.0	08-Apr-25	14-Apr-25	240.0
S1-NB1435	Installation of noise barrier panels	12.0	15-Apr-25	02-May-25	240.0
Section 4- Site Formation and Infrastructure Works in Area D		70.0	08-Apr-25	05-Jul-25	224.0



Actual Work
Remaining Work
Critical Remaining Work
Milestone

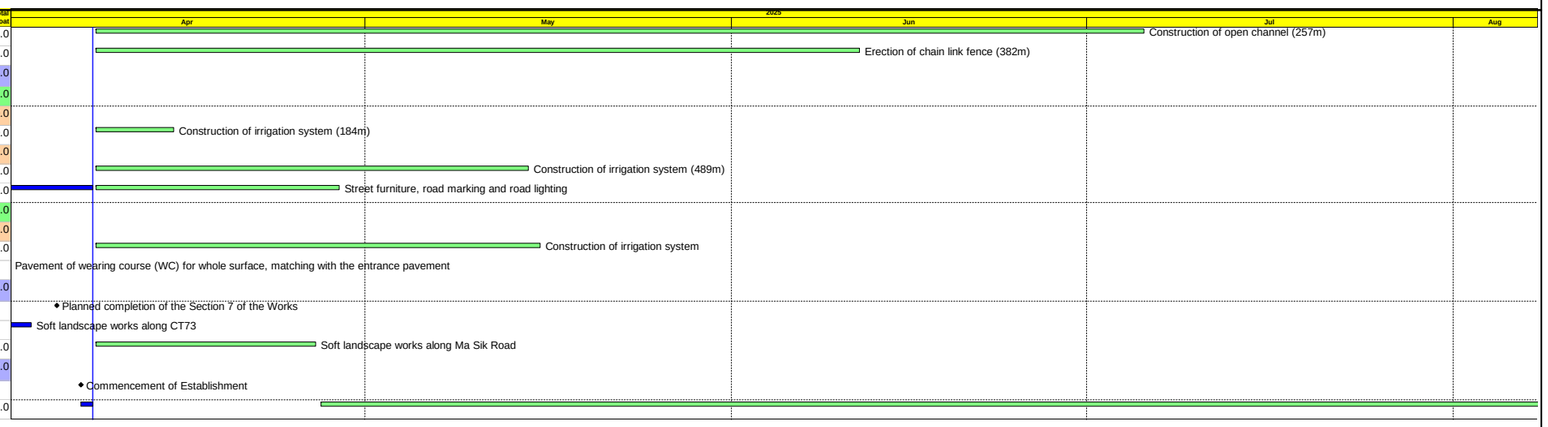
中國路橋工程有限責任公司
CHINA ROAD AND BRIDGE CORPORATION

Three Month Rolling Programme (Data Date : 08-Apr-25)

Date	Revision	Checked	Approved
08-Apr-25	RDWPG	ST	MC

Contract No. ND/2019/07 Fanling North New Development Area, Phase 1: Site Formation and Infrastructure Works

Activity ID	Activity Name	Original Duration	Start	Finish	Total Float
S4-SF1125	Construction of open channel (257m)	70.0	08-Apr-25	05-Jul-25	224.0
S4-SF1140	Erection of chain link fence (382m)	50.0	08-Apr-25	11-Jun-25	244.0
Section 5- Site Formation and Infrastructure Works in Area E and Remainder of the Works		130.0	07-Oct-24 A	15-May-25	266.0
Road L1		129.0	07-Oct-24 A	14-May-25	267.0
Road L1 in Portion V (P600 CH100 to CH194)		6.0	08-Apr-25	14-Apr-25	10.0
S5-RD1360	Construction of irrigation system (184m)	6.0	08-Apr-25	14-Apr-25	10.0
Road L1 in Portion IV (P600 CH194 to CH393, P700 CH100 to CH175)		129.0	07-Oct-24 A	14-May-25	267.0
S5-RD1185	Construction of irrigation system (489m)	27.0	08-Apr-25	14-May-25	267.0
S5-RD1260	Street furniture, road marking and road lighting	38.0	07-Oct-24 A	28-Apr-25	279.0
Road L2		34.0	27-Mar-25 A	15-May-25	266.0
Stage 4		34.0	27-Mar-25 A	15-May-25	266.0
S5-RD1505	Construction of irrigation system	28.0	08-Apr-25	15-May-25	266.0
S5-RD2060	Pavement of wearing course (WC) for whole surface, matching with the entrance pavement	7.0	27-Mar-25 A	01-Apr-25 A	
Section 7- Completion of All Landscape Softworks		25.0	25-Mar-25 A	26-Apr-25	2.0
S7-CS1020	Planned completion of the Section 7 of the Works	0.0		05-Apr-25 A	
S7-CS1140	Soft landscape works along CT73	8.0	25-Mar-25 A	02-Apr-25 A	
S7-CS1150	Soft landscape works along Ma Sik Road	14.0	08-Apr-25	26-Apr-25	2.0
Section 8- Completion of Establishment Works for All Works in Section 7		365.0	07-Apr-25 A	05-Apr-26	3.0
S8-CS1000	Commencement of Establishment	0.0	07-Apr-25 A		
S8-CS1020	Establishment Works	365.0	07-Apr-25 A	05-Apr-26	3.0



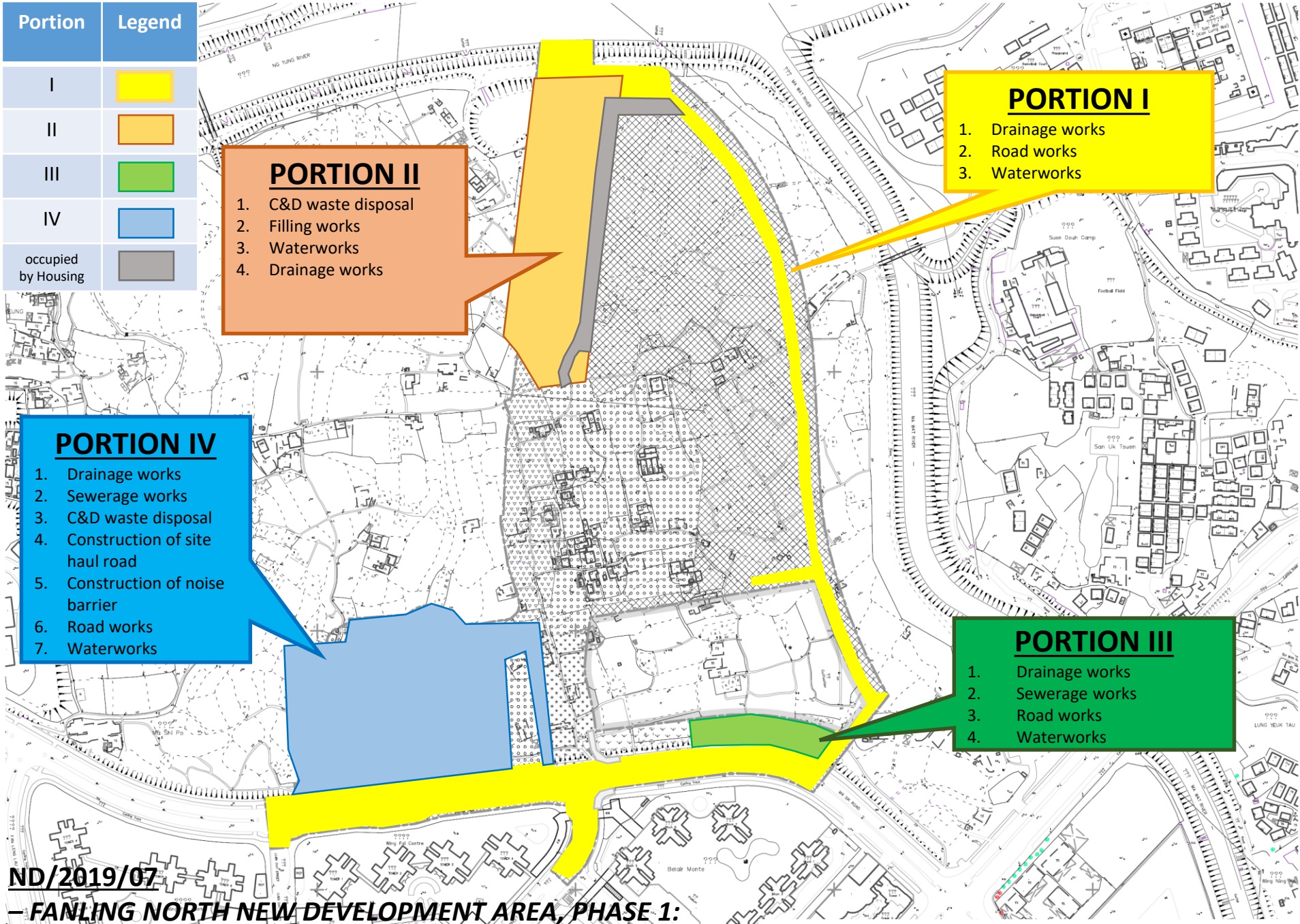
Actual Work
Remaining Work
Critical Remaining Work
Milestone

中國路橋工程有限責任公司
CHINA ROAD AND BRIDGE CORPORATION

Three Month Rolling Programme (Data Date : 08-Apr-25)

Date	Revision	Checked	Approved
08-Apr-25	RDWPG	ST	MC

Portion	Legend
I	
II	
III	
IV	
occupied by Housing	



ND/2019/07

– FANLING NORTH NEW DEVELOPMENT AREA, PHASE 1: SITE FORMATION AND INFRASTRUCTURE WORKS

Working Activities (Apr 2025 – Jul 2025)

APPENDIX B
ACTION AND LIMIT LEVELS

Appendix B - Action and Limit Levels

Table B-1 Action and Limit Levels for 1-hour TSP

Monitoring station	Action Level (ug/m^3)	Limit Level (ug/m^3)
FLN-DMS1	303	500
FLN-DMS3	301	
FLN-DMS5	279	
KTN-DMS4	297	

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

Monitoring station	Action Level (ug/m^3)	Limit Level (ug/m^3)
FLN-DMS1	150	260
FLN-DMS3	165	
FLN-DMS5A	153	
KTN-DMS4	192	

Table B-3 Action and Limit Levels for Construction Noise

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

Noted:
If works are to be carried during restricted hours, the conditions stipulated in the construction noise permit issued by the Noise Control Authority have to be followed.
(*) reduce to 70 dB(A) for schools and 65 dB(A) during school examination periods.

Table B-4.1 Action and Limit Levels for Water Quality Monitoring(1)

Parameters	Action Level	Limit Level
DO in mg/L (depth average)#+	5 percentile of baseline data.	4 mg/L or 1 percentile of baseline data.
SS in mg/L (depth averaged)*&	95 percentile of baseline data or 120% of upstream control station.	20 mg/L or 99 percentile of baseline data or 130% of upstream control station.
Turbidity in NTU (depth averaged)*^	95 percentile of baseline data or 120% of upstream control station.	99 percentile of baseline data or 130% of upstream control station.
Unionized ammonia in mg/L (depth averaged)*~	95 percentile of baseline data or 120% of upstream control station.	0.021mg/L or 99 percentile of baseline data or 130% of upstream control station.

Nitrate nitrogen in mg/L (depth averaged)*^	95 percentile of baseline data or 120% of upstream control station.	99 percentile of baseline data or 130% of upstream control station.
Orthophosphate in mg/L (depth averaged)*^	95 percentile of baseline data or 120% of upstream control station.	99 percentile of baseline data or 130% of upstream control station.

Remarks:
AL of DO is 5 percentile of baseline data or level at control station at same tide of the same day (whichever lower) and LL of DO is 4.0 mg/L or level at control station at same tide of the same day (whichever lower);
+ 1 percentile of baseline data were adopted for LL for DO as those levels were greater than 4 mg/L;
* AL is 120% of control station's level at the same tide of the same day when depth average greater than 95 percentile of baseline data;
^ LL is 130% of control station's level at the same tide of the same day when depth average greater than 99 percentile of baseline data.
~ LL is 130% of control station's level at the same tide of the same day when depth average greater than 99 percentile of baseline data or 0.021mg/L.
& LL is 130% of control station's level at the same tide of the same day when depth average greater than 99 percentile of baseline data or 20mg/L.

Table B-4.2 Summary of Baseline Water Quality Monitoring Results (KTN NDA)(1)

Monitoring Parameter					
Location / **Parameter**	KTN-CS1				
	Max	Min	Average	5 Percentile	1 Percentile
DO in mg/L	7.79	6.28	6.82	6.32	6.28
	Max	Min	Average	95 Percentile	99 Percentile
Turbidity in NTU	72.4	4.59	10.88	62.2	72.2
Suspended Solid in mg/L	74	2	9	60	73
Unionized ammonia in mg/L	0.0005	0.0001	0.0003	0.0004	0.0005
Nitrate nitrogen in mg/L	0.52	0.09	0.27	0.50	0.52
Orthophosphate in mg/L	0.19	0.01	0.10	0.17	0.19

Monitoring Parameter					
Location / **Parameter**	KTN-IS1				
	Max	Min	Average	5 Percentile	1 Percentile
DO in mg/L	8.08	4.71	6.83	6.14	5.02
	Max	Min	Average	95 Percentile	99 Percentile
Turbidity in NTU	44.56	4.57	8.63	38.98	44.56

Suspended Solid in mg/L	35	2	6	31	35
Unionized ammonia in mg/L	0.0006	0.0001	0.0004	0.0005	0.0006
Nitrate nitrogen in mg/L	0.57	0.09	0.29	0.54	0.57
Orthophosphate in mg/L	0.14	0.03	0.09	0.13	0.14

Note:
(1) The Action and Limit Levels for Water Quality Monitoring and the Summary of Baseline Water Quality Monitoring Results are according to pre-construction ET's Updated EM&A Manual and Baseline Water Quality Monitoring Report (KTN & FLN NDA).

Table B-4.3 Action and Limit Levels for Additional Water Quality Monitoring

Parameters	Action Level	Limit Level
River Beas (SYR-IS1)		
DO in mg/L (depth average) [1]	SYR-IS1: ***6.1*** [2]	SYR-IS1: ***6.0*** [2]
SS in mg/L (depth average) [1]	SYR-IS1: ***75.6*** or 120% of upstream control station, whichever is higher[3]	SYR-IS1: ***83.1*** or 130% of upstream control station, whichever is higher[3]
Turbidity in NTU (depth average) [1]	SYR-IS1: ***48.2*** or 120% of upstream control station, whichever is higher[3]	SYR-IS1: ***50.9*** or 130% of upstream control station, whichever is higher[3]
Arsenic in µg/L (depth average) [2]	SYR-IS1: ***5.4*** or 120% of upstream control station, whichever is higher [3]	SYR-IS1: 50 µg/L [4]
River Indus and near Siu Hang San Tsuen Stream (NTR-IS1, SHST-IS2, MWR-IS3)		
DO in mg/L (depth average) [1]	NTR-IS1: ***5.8*** [2] SHST-IS2: ***7.0*** [2] MWR-IS3: ***8.6*** [2]	NTR-IS1: ***5.7*** [2] SHST-IS2: ***6.8*** [2] MWR-IS3: ***8.5*** [2]
SS in mg/L (depth average) [1]	NTR-IS1: ***8.9*** SHST-IS2: ***4.0*** MWR-IS3: ***14.0*** or 120% of upstream control station, whichever is higher[3]	NTR-IS1: ***9.0*** SHST-IS2: ***4.0*** MWR-IS3: ***14.4*** or 130% of upstream control station, whichever is higher[3]
Turbidity in NTU (depth average) [1]	NTR-IS1: ***6.0*** SHST-IS2: ***4.4*** MWR-IS3: ***10.1*** or 120% of upstream control station, whichever is higher[3]	NTR-IS1: ***6.1*** SHST-IS2: ***4.7*** MWR-IS3: ***11.1*** or 130% of upstream control station, whichever is higher[3]

Remarks:
[1] "Depth-averaged" is calculated by taking the arithmetic mean of reading of all three depths.
[2] For DO, non-compliance occurs when monitoring results is lower than the limits.
[3] For turbidity, SS and arsenic, non-compliance occurs when monitoring results is larger than the limits.
[4] There is no local criterion for heavy metal. Limit Level of heavy metal is adopted from Category III Surface Water Quality Standards (GB3838-2002) (地表水環境質量標準), which applicable for Shenzhen River on mainland side.

Table B-5 Action and Limit Levels for Ambient Arsenic Monitoring

Parameter	Action Level	Limit Level
Ambient Arsenic Concentration	**9.36ng/m^3** - 80% of 11.7ng/m3 – the highest ambient arsenic concentration predicted during the construction phase with mitigation measures implemented)	**11.7ng/m^3** - the highest ambient arsenic concentration predicted during the construction phase with mitigation measures implemented

Table B-6 Action level in the event of LFG being detected

Parameter	Monitoring Results	Actions
O_2	<19% v/v	Increase underground ventilation to restore O_2 to >19% v/v
	<18% v/v	Stop works, evacuate all personnel, prohibit entry, and increase ventilation to restore O_2 level to >19%
CH_4	>10% LEL	Prohibit hot works, increase ventilation to restore CH4 to <10% LEL
	>20% LEL	Stop works, evacuate all personnel, increase ventilation further to restore CH_4 to <10% LEL
CO_2	>0.5% v/v	Increase ventilation to restore C O_2 to <0.5% v/v
	>1.5% v/v	Stop works, evacuate all personnel, increase ventilation further to restore CO_2 to <0.5%

Table B-7.1 Vibration Limit for Construction Vibration Monitoring (PNAP APP-137)

Type of Building	Guide Values of Maximum PPV* (mm/Sec)	
	Transient Vibration	Continuous Vibration
Vibration-sensitive / dilapidated buildings#	7.5	3.0
Declared monuments/ Historical structures	3.0	

Remarks:
* peak particle velocity
# as cultural heritages are sensitive receivers, vibration monitoring should be classified as vibration-sensitive

Table B-7.2 Vibration Limits for Construction Vibration Monitoring (3As)

Buildings to be monitored	Guide Values (mm/Sec)		
	Alert	Alarm	Action
Vibration (ppv*)	5	6	7.5

Remarks:
* peak particle velocity

Table B-8.1 Action and Limit Levels for Avifauna Monitoring and General Site Inspection in the LVNP during Construction Phase – April

Monitoring Parameter	Action Level	Limit Level
Mean abundance of bird	347	248
Mean abundance of *Ardeola bacchus*	8	6
General site inspection	Activity likely to cause unacceptable environmental disturbance or damage	Activity causing unacceptable environmental disturbance or damage

Table B-8.2 Action and Limit Levels of Disturbance to Waterbirds using in Ng Tung, Sheung Yue and Shek Sheung Rivers – April

Monitoring Parameter	Action Level	Limit Level
Mean abundance of birds*	13	9
Mean abundance of *Ardeola bacchus*	10	7
*Large waterbirds: *Ardea alba, Ardea cinerea, Ardea intermedia, Egretta eulophotes, Egretta garzetta* and *Phalacrocorax carbo*		

Table B-8.3 Action and Limit Levels of Declines in the Seasonal Non-aquatic Fauna (Herptofauna, Butterfly and Odonates) in Ecologically Sensitive Habitats – April

Monitoring Parameter	Transect	Action Level	Limit Level
Monthly species richness of native species of herpetofauna	T1	6	4
	T3	3	2
	T4	3	2
	T5	3	2
	T6	2	1
Monthly species richness of butterflies	T1	7	5
	T3	3	2
	T4	4	3
	T5	5	4
	T6	4	3
Month species richness of native species of odonates	T1	4	3
	T3	5	4
	T4	2	1
	T5	4	3
	T6	4	3

Table B-8.4 Action and Limit Levels of Declines in the Non-seasonal Non-aquatic Fauna (Mammals) in Ecologically Sensitive Habitats – April

Monitoring Parameter	Transect	Action Level	Limit Level
Monthly species richness of native species of mammals	T1	NA	1
	T3	NA	NA
	T4	NA	NA
	T5	NA	NA
	T6	NA	NA

Table B-8.5 Action and Limit Levels of Declines in Aquatic Fauna– April

Monitoring Station		Action Level (Species richness of native species)	Limit Level (Species richness of native species)
MS_01	Macroinvertebrates	NA	NA
	Fish	NA	NA
MS_02 & MS_03	Macroinvertebrates	2	1
	Fish	NA	NA
MS_04, MS_06 & MS_07	Macroinvertebrates	4	3
	Fish	NA	1
MS_05	Macroinvertebrates	NA	NA
	Fish	NA	NA
MS_08, MS_09 & MS_10	Macroinvertebrates	4	3
	Fish	NA	1
MS_11	Macroinvertebrates	NA	NA
	Fish	NA	NA
MS_12	Macroinvertebrates	NA	NA
	Fish	NA	NA
MS_13 & MS_14	Macroinvertebrates	2.1	1
	Fish	NA	NA
MS_15	Macroinvertebrates	NA	NA
	Fish	NA	NA

APPENDIX C
COPIES OF CALIBRATION CERTIFCATES

WELLAB LIMITED
Room 1714, Technology Park
18 On Lai Street, Shatin
New Territories, Hong Kong
Tel: 2898 7388 Fax: 2898 7076
Website : www.wellab.com.hk

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TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 1808, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	41979
Date of Issue:	2025-03-17
Date Received:	2025-03-14
Date Tested:	2025-03-14
Date Completed:	2025-03-17
Next Due Date:	2025-05-16

Page: 1 of 1

ATTN: **Ms. Meiling Tang**

Certificate of Calibration

Item for Calibration:

Description	: Dust Monitor
Manufacturer	: Met One Instruments
Model No.	: AEROCET-831
Serial No.	: X23807
Flow rate	: 0.1 cfm
Zero Count Test	: 0 count per 1 minute
Equipment No.	: WA-01-01

Test Conditions:

Room Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Tisch Environmental Inc.
2. In-house method in according to the instruction manual: The Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Results:

Correlation Factor (CF)	1.159

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

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TSP - Total Suspended Particulates (1 hr Dust Meter)
Calibration Report

Dust Meter	Dust Meter	High Volume Sampler
Equipment No.:	WA-01-01	WA-12-09
Model No. :	AEROCET-831	TE-5170
Serial No.	X23807	2203
Calibration Date:	14-Mar-25	14-Mar-25
Location:	Wellab Office (Calibration Room)	

Calibration of 1 hr TSP		
Calibration Point	**Dust Meter**	**HVS**
	Mass Concentration (μg/m³) **X-axis**	Mass concentration (μg/m³) **Y-axis**
1	17	24
2	36	44
3	50	61
4	67	76
5	94	99
Average	**52.5**	**60.9**

By Linear Regression of Y on X

Slope , mw = **0.9839** **Intercept, bw =** **9.2248**

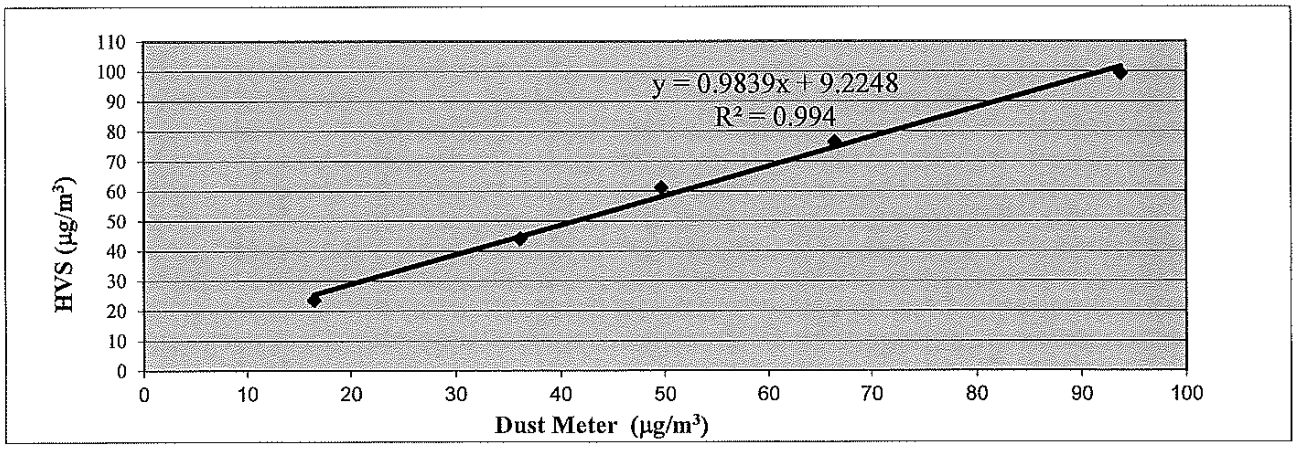
Correlation coefficient* = **0.9970**

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particaulate Concentration by High Volume Sampler (μg/m³)	60.9
Particaulate Concentration by Dust Meter (μg/m³)	52.5
Measureing time, (min)	60

Set Correlation Factor , SCF

SCF = [K=High Volume Sampler / Dust Meter, (μg/m³)] **1.159**



QC Reviewer: LEE MAN HEV Signature: hei Date: 15/3/25

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WELLAB LIMITED
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18 On Lai Street, Shatin
New Territories, Hong Kong
Tel: 2898 7388 Fax: 2898 7076
Website : www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 1808, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	41979A
Date of Issue:	2025-03-17
Date Received:	2025-03-14
Date Tested:	2025-03-14
Date Completed:	2025-03-17
Next Due Date:	2025-05-16

ATTN: **Ms. Meiling Tang**

Certificate of Calibration

Item for Calibration:

Description	: Dust Monitor
Manufacturer	: Met One Instruments
Model No.	: AEROCET-831
Serial No.	: X23808
Flow rate	: 0.1 cfm
Zero Count Test	: 0 count per 1 minute
Equipment No.	: WA-01-02

Test Conditions:

Room Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Tisch Environmental Inc.
2. In-house method in according to the instruction manual: The Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Results:

Correlation Factor (CF)	1.148

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

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TSP - Total Suspended Particulates (1 hr Dust Meter)
Calibration Report

Dust Meter	Dust Meter	High Volume Sampler
Equipment No.:	WA-01-02	WA-12-09
Model No. :	AEROCET-831	TE-5170
Serial No.	X23808	2203
Calibration Date:	14-Mar-25	14-Mar-25
Location:	Wellab Office (Calibration Room)	

Calibration of 1 hr TSP		
Calibration Point	**Dust Meter**	**HVS**
	Mass Concentration (μg/m³) **X-axis**	Mass concentration (μg/m³) **Y-axis**
1	19	24
2	38	44
3	53	61
4	65	76
5	91	99
Average	**53.1**	**60.9**

By Linear Regression of Y on X

Slope , mw = **1.0739** **Intercept, bw =** **3.9405**

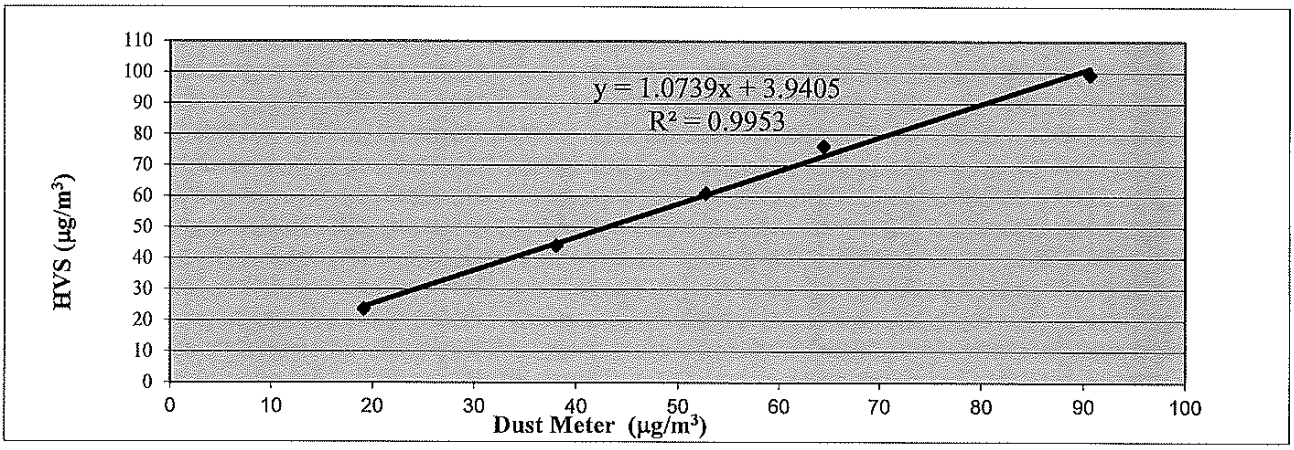
Correlation coefficient* = **0.9976**

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particaulate Concentration by High Volume Sampler (μg/m³)	60.9
Particaulate Concentration by Dust Meter (μg/m³)	53.1
Measureing time, (min)	60

Set Correlation Factor , SCF

SCF = [K=High Volume Sampler / Dust Meter, (μg/m³)] **1.148**



QC Reviewer: LEE MAN HEU Signature: hei Date: 15/3/25

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New Territories, Hong Kong
Tel: 2898 7388 Fax: 2898 7076
Website : www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 1808, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	41979B
Date of Issue:	2025-03-17
Date Received:	2025-03-14
Date Tested:	2025-03-14
Date Completed:	2025-03-17
Next Due Date:	2025-05-16

ATTN: **Ms. Meiling Tang**

Certificate of Calibration

Item for Calibration:

Description	: Dust Monitor
Manufacturer	: Met One Instruments
Model No.	: AEROCET-831
Serial No.	: X23809
Flow rate	: 0.1 cfm
Zero Count Test	: 0 count per 1 minute
Equipment No.	: WA-01-03

Test Conditions:

Room Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Tisch Environmental Inc.
2. In-house method in according to the instruction manual: The Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Results:

Correlation Factor (CF)	1.123

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

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TSP - Total Suspended Particulates (1 hr Dust Meter)
Calibration Report

Dust Meter	Dust Meter	High Volume Sampler
Equipment No.:	WA-01-03	WA-12-09
Model No. :	AEROCET-831	TE-5170
Serial No.	X23809	2203
Calibration Date:	14-Mar-25	14-Mar-25
Location:	Wellab Office (Calibration Room)	

Calibration of 1 hr TSP		
Calibration Point	**Dust Meter**	**HVS**
	Mass Concentration (μg/m³) **X-axis**	Mass concentration (μg/m³) **Y-axis**
1	18	24
2	37	44
3	55	61
4	70	76
5	92	99
Average	**54.3**	**60.9**

By Linear Regression of Y on X

Slope , mw = **1.0110** **Intercept, bw =** **6.0643**

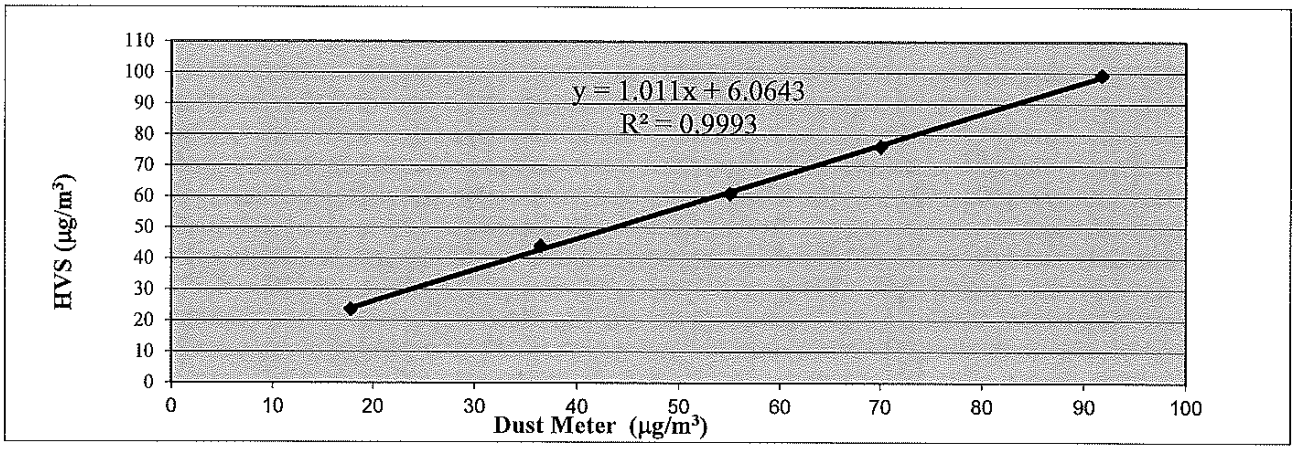
Correlation coefficient* = **0.9997**

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particaulate Concentration by High Volume Sampler (μg/m³)	60.9
Particaulate Concentration by Dust Meter (μg/m³)	54.3
Measureing time, (min)	60

Set Correlation Factor , SCF

SCF = [K=High Volume Sampler / Dust Meter, (μg/m³)] **1.123**



QC Reviewer: LEE MAN HEI Signature: hei Date: 15/3/2025

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TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 1808, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	41790A
Date of Issue:	2025-02-22
Date Received:	2025-02-20
Date Tested:	2025-02-20
Date Completed:	2025-02-22
Next Due Date:	2025-04-21

Page: 1 of 1

ATTN: **Ms. Meiling Tang**

Certificate of Calibration

Item for Calibration:

Description	: Dust Monitor
Manufacturer	: Met One Instruments
Model No.	: AEROCET-831
Serial No.	: X24477
Flow rate	: 0.1 cfm
Zero Count Test	: 0 count per 1 minute
Equipment No.	: WA-01-06

Test Conditions:

Room Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Tisch Environmental Inc.
2. In-house method in according to the instruction manual: The Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Results:

Correlation Factor (CF)	1.203

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

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TSP - Total Suspended Particulates (1 hr Dust Meter)
Calibration Report

Dust Meter	Dust Meter	High Volume Sampler
Equipment No.:	WA-01-06	WA-12-09
Model No. :	AEROCET-831	TE-5170
Serial No.	X24477	2203
Calibration Date:	20-Feb-25	20-Feb-25
Location:	Wellab Office (Calibration Room)	

Calibration of 1 hr TSP		
Calibration Point	**Dust Meter**	**HVS**
	Mass Concentration (μg/m³) **X-axis**	Mass concentration (μg/m³) **Y-axis**
1	11	15
2	28	37
3	42	53
4	73	86
5	89	101
Average	**48.7**	**58.5**

By Linear Regression of Y on X

Slope , mw = **1.1024** **Intercept, bw =** **4.8746**

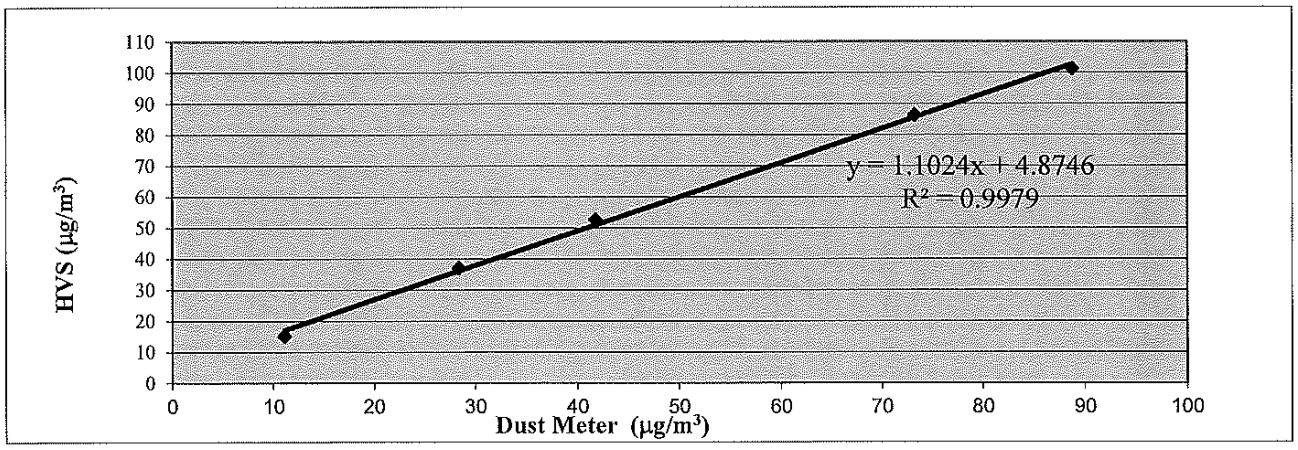
Correlation coefficient* = **0.9990**

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particaulate Concentration by High Volume Sampler (μg/m³)	58.5
Particaulate Concentration by Dust Meter (μg/m³)	48.7
Measureing time, (min)	60

Set Correlation Factor , SCF

SCF = [K=High Volume Sampler / Dust Meter, (μg/m³)] **1.203**



QC Reviewer: Lee Man Hei Signature: hei Date: 20/2/2025

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TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 1808, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	41979D
Date of Issue:	2025-03-17
Date Received:	2025-03-14
Date Tested:	2025-03-14
Date Completed:	2025-03-17
Next Due Date:	2025-05-16

ATTN: **Ms. Meiling Tang**

Certificate of Calibration

Item for Calibration:

Description	: Dust Monitor
Manufacturer	: Met One Instruments
Model No.	: AEROCET-831
Serial No.	: X24475
Flow rate	: 0.1 cfm
Zero Count Test	: 0 count per 1 minute
Equipment No.	: WA-01-07

Test Conditions:

Room Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Tisch Environmental Inc.
2. In-house method in according to the instruction manual: The Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Results:

Correlation Factor (CF)	1.173

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

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TSP - Total Suspended Particulates (1 hr Dust Meter)
Calibration Report

Dust Meter	Dust Meter	High Volume Sampler
Equipment No.:	WA-01-07	WA-12-09
Model No. :	AEROCET-831	TE-5170
Serial No.	X24475	2203
Calibration Date:	14-Mar-25	14-Mar-25
Location:	Wellab Office (Calibration Room)	

Calibration of 1 hr TSP		
Calibration Point	**Dust Meter**	**HVS**
	Mass Concentration (μg/m^3) **X-axis**	Mass concentration (μg/m^3) **Y-axis**
1	16	24
2	36	44
3	51	61
4	65	76
5	93	99
Average	**51.9**	**60.9**

By Linear Regression of Y on X

Slope , mw = **0.9945** **Intercept, bw =** **9.2656**

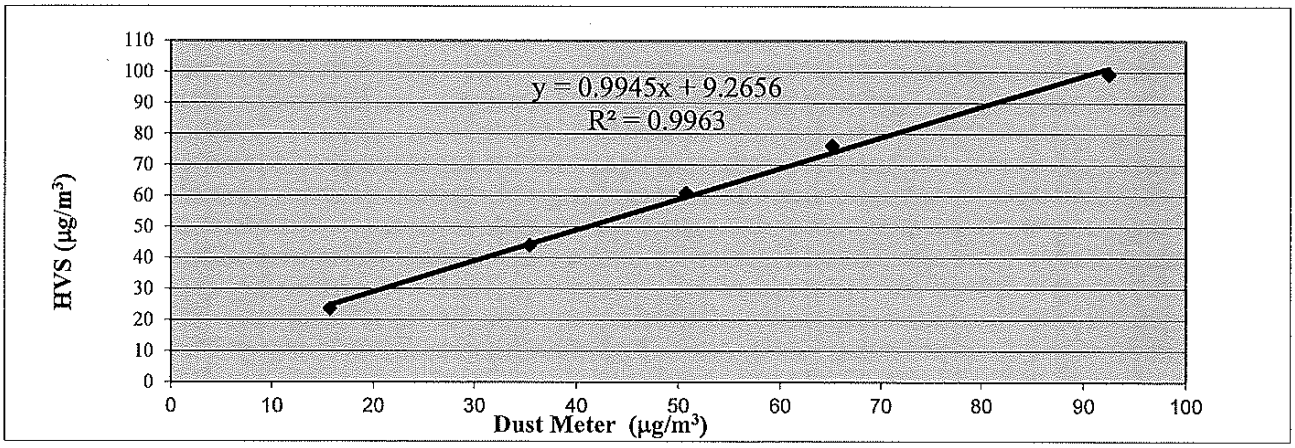
Correlation coefficient* = **0.9982**

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particaulate Concentration by High Volume Sampler (μg/m^3)	60.9
Particaulate Concentration by Dust Meter (μg/m^3)	51.9
Measureing time, (min)	60

Set Correlation Factor , SCF

SCF = [K=High Volume Sampler / Dust Meter, (μg/m^3)] **1.173**



QC Reviewer: LEE MAN HEI Signature: Lei Date: 15/ 31 2025

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Website : www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 1808, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	41790B
Date of Issue:	2025-02-22
Date Received:	2025-02-20
Date Tested:	2025-02-20
Date Completed:	2025-02-22
Next Due Date:	2025-04-21

ATTN: **Ms. Meiling Tang**

Certificate of Calibration

Item for Calibration:

Description	: Dust Monitor
Manufacturer	: Met One Instruments
Model No.	: AEROCET-831
Serial No.	: X24479
Flow rate	: 0.1 cfm
Zero Count Test	: 0 count per 1 minute
Equipment No.	: WA-01-08

Test Conditions:

Room Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Tisch Environmental Inc.
2. In-house method in according to the instruction manual: The Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Results:

Correlation Factor (CF)	1.170

****

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For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

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TSP - Total Suspended Particulates (1 hr Dust Meter)
Calibration Report

Dust Meter	Dust Meter	High Volume Sampler
Equipment No.:	WA-01-08	WA-12-09
Model No. :	AEROCET-831	TE-5170
Serial No.	X24479	2203
Calibration Date:	20-Feb-25	20-Feb-25
Location:	Wellab Office (Calibration Room)	

Calibration of 1 hr TSP		
Calibration Point	**Dust Meter**	**HVS**
	Mass Concentration (μg/m³) **X-axis**	Mass concentration (μg/m³) **Y-axis**
1	12	15
2	26	37
3	44	53
4	77	86
5	91	101
Average	**50.0**	**58.5**

By Linear Regression of Y on X

Slope , mw = **1.0492** **Intercept, bw =** **6.0587**

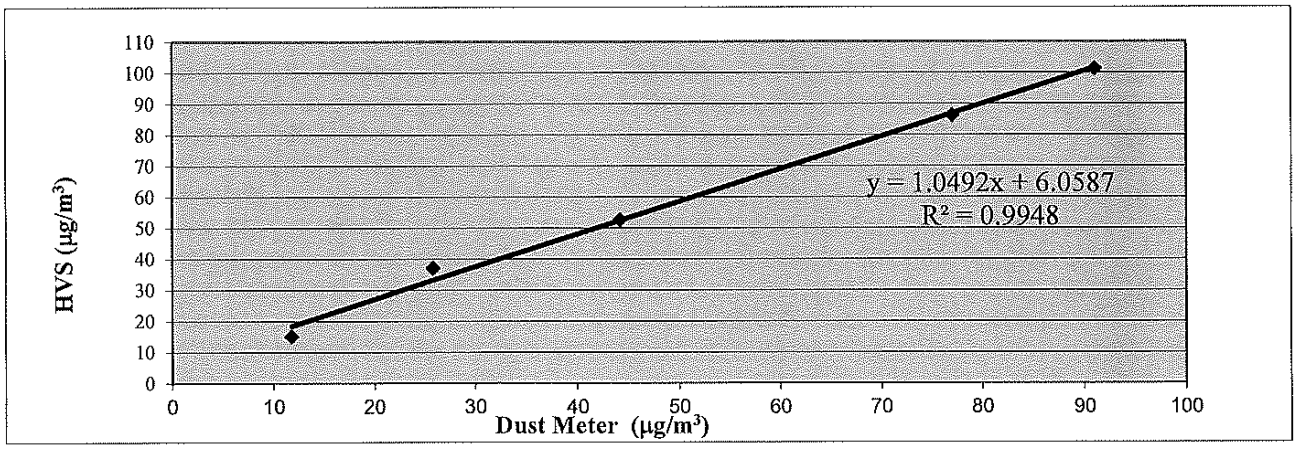
Correlation coefficient* = **0.9974**

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particaulate Concentration by High Volume Sampler (μg/m³)	58.5
Particaulate Concentration by Dust Meter (μg/m³)	50.0
Measureing time, (min)	60

Set Correlation Factor , SCF

SCF = [K=High Volume Sampler / Dust Meter, (μg/m³)] **1.170**



QC Reviewer: Lee Man Hei Signature: hei Date: 20/2/2025

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TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 1808, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	42207B
Date of Issue:	2025-04-21
Date Received:	2025-04-18
Date Tested:	2025-04-18
Date Completed:	2025-04-21
Next Due Date:	2025-06-20

ATTN: **Ms. Meiling Tang**

Certificate of Calibration

Item for Calibration:

Description	: Dust Monitor
Manufacturer	: Met One Instruments
Model No.	: AEROCET-831
Serial No.	: X24479
Flow rate	: 0.1 cfm
Zero Count Test	: 0 count per 1 minute
Equipment No.	: WA-01-08

Test Conditions:

Room Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Tisch Environmental Inc.
2. In-house method in according to the instruction manual: The Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Results:

Correlation Factor (CF)	1.113

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

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TSP - Total Suspended Particulates (1 hr Dust Meter)
Calibration Report

Dust Meter	Dust Meter	High Volume Sampler
Equipment No.:	WA-01-08	WA-12-09
Model No. :	AEROCET-831	TE-5170
Serial No.	X24479	2203
Calibration Date:	18-Apr-25	18-Apr-25
Location:	Wellab Office (Calibration Room)	

Calibration of 1 hr TSP		
Calibration Point	**Dust Meter**	**HVS**
	Mass Concentration (μg/m³) **X-axis**	Mass concentration (μg/m³) **Y-axis**
1	8	11
2	20	27
3	42	48
4	70	74
5	93	100
Average	**46.7**	**52.0**

By Linear Regression of Y on X

Slope , mw = **1.0136** **Intercept, bw =** **4.6633**

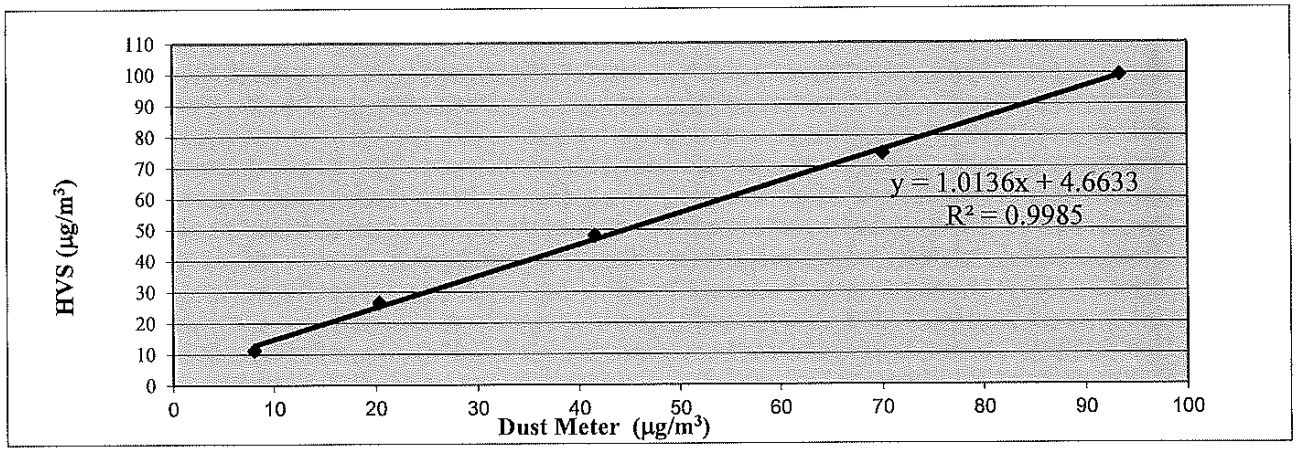
Correlation coefficient* = **0.9992**

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particaulate Concentration by High Volume Sampler (μg/m³)	52.0
Particaulate Concentration by Dust Meter (μg/m³)	46.7
Measureing time, (min)	60

Set Correlation Factor , SCF

SCF = [K=High Volume Sampler / Dust Meter, (μg/m³)] **1.113**



QC Reviewer: [illegible] Signature: [illegible] Date: 18/4/25

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TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 1808, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	41790C
Date of Issue:	2025-02-22
Date Received:	2025-02-20
Date Tested:	2025-02-20
Date Completed:	2025-02-22
Next Due Date:	2025-04-21

ATTN: **Ms. Meiling Tang**

Certificate of Calibration

Item for Calibration:

Description	: Dust Monitor
Manufacturer	: Met One Instruments
Model No.	: AEROCET-831
Serial No.	: X23811
Flow rate	: 0.1 cfm
Zero Count Test	: 0 count per 1 minute
Equipment No.	: WA-01-09

Test Conditions:

Room Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Tisch Environmental Inc.
2. In-house method in according to the instruction manual: The Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Results:

Correlation Factor (CF)	1.144

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

Patrick Tse
PATRICK TSE
Laboratory Manager

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TSP - Total Suspended Particulates (1 hr Dust Meter)
Calibration Report

Dust Meter	Dust Meter	High Volume Sampler
Equipment No.:	WA-01-09	WA-12-09
Model No. :	AEROCET-831	TE-5170
Serial No.	X23811	2203
Calibration Date:	20-Feb-25	20-Feb-25
Location:	Wellab Office (Calibration Room)	

Calibration of 1 hr TSP		
Calibration Point	**Dust Meter**	**HVS**
	Mass Concentration (μg/m^3) **X-axis**	Mass concentration (μg/m^3) **Y-axis**
1	10	15
2	30	37
3	43	53
4	76	86
5	96	101
Average	**51.2**	**58.5**

By Linear Regression of Y on X

Slope , mw = **1.0146** **Intercept, bw =** **6.6129**

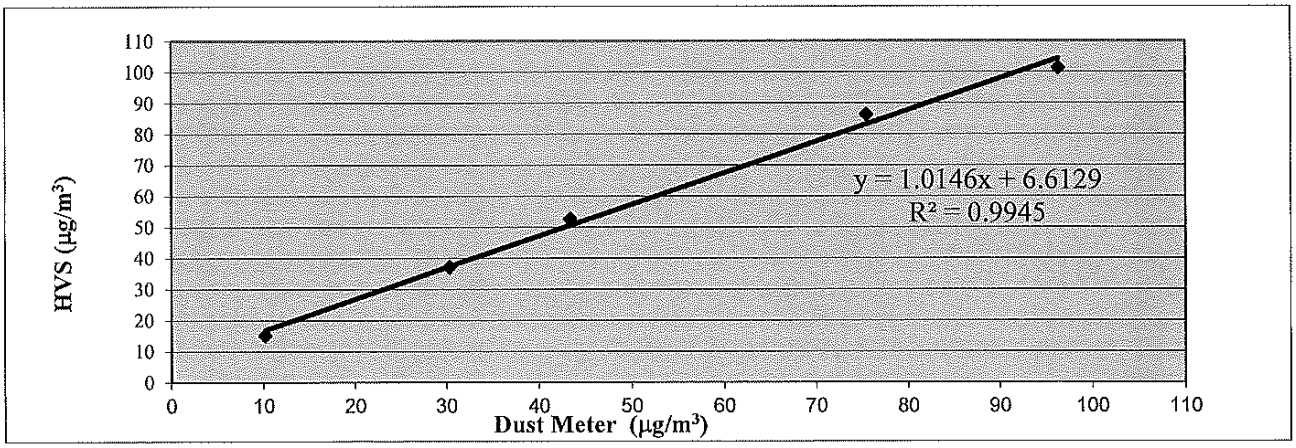
Correlation coefficient* = **0.9973**

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particaulate Concentration by High Volume Sampler (μg/m^3)	58.5
Particaulate Concentration by Dust Meter (μg/m^3)	51.2
Measureing time, (min)	60

Set Correlation Factor , SCF

SCF = [K=High Volume Sampler / Dust Meter, (μg/m^3)] **1.144**



QC Reviewer: LEE MAN HEZ Signature: hei Date: 20/2/2025

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TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 1808, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	42207C
Date of Issue:	2025-04-21
Date Received:	2025-04-18
Date Tested:	2025-04-18
Date Completed:	2025-04-21
Next Due Date:	2025-06-20

ATTN: **Ms. Meiling Tang**

Certificate of Calibration

Item for Calibration:

Description	: Dust Monitor
Manufacturer	: Met One Instruments
Model No.	: AEROCET-831
Serial No.	: X23811
Flow rate	: 0.1 cfm
Zero Count Test	: 0 count per 1 minute
Equipment No.	: WA-01-09

Test Conditions:

Room Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Tisch Environmental Inc.
2. In-house method in according to the instruction manual: The Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Results:

Correlation Factor (CF)	1.154

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
Laboratory Manager

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TSP - Total Suspended Particulates (1 hr Dust Meter)
Calibration Report

Dust Meter	Dust Meter	High Volume Sampler
Equipment No.:	WA-01-09	WA-12-09
Model No. :	AEROCET-831	TE-5170
Serial No.	X23811	2203
Calibration Date:	18-Apr-25	18-Apr-25
Location:	Wellab Office (Calibration Room)	

Calibration of 1 hr TSP		
Calibration Point	**Dust Meter**	**HVS**
	Mass Concentration (μg/m³) **X-axis**	Mass concentration (μg/m³) **Y-axis**
1	6	11
2	21	27
3	37	48
4	69	74
5	92	100
Average	**45.1**	**52.0**

By Linear Regression of Y on X

Slope , mw = **1.0066** **Intercept, bw =** **6.6439**

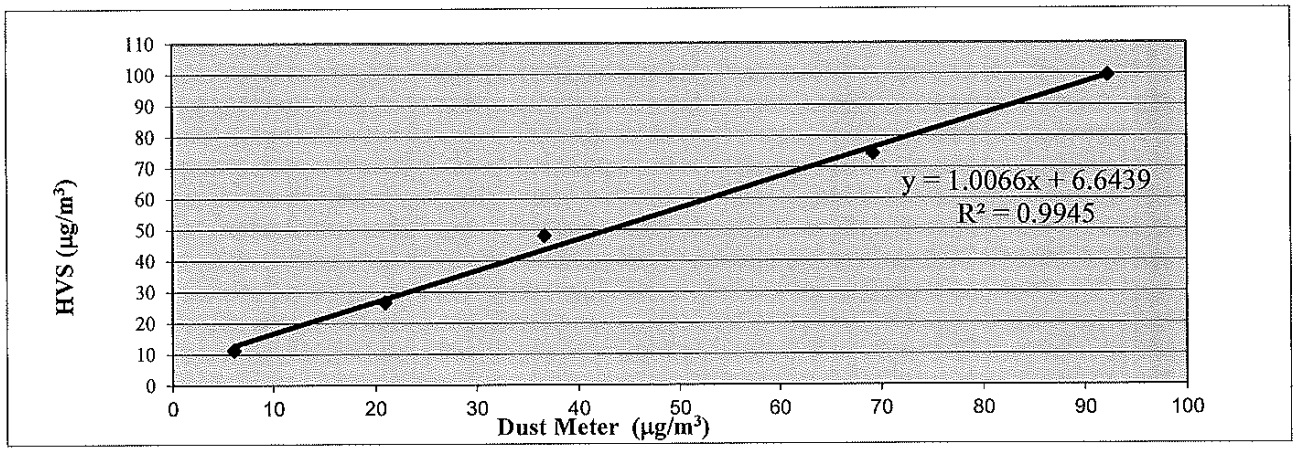
Correlation coefficient* = **0.9973**

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particaulate Concentration by High Volume Sampler (μg/m³)	52.0
Particaulate Concentration by Dust Meter (μg/m³)	45.1
Measureing time, (min)	60

Set Correlation Factor , SCF

SCF = [K=High Volume Sampler / Dust Meter, (μg/m³)] **1.154**



QC Reviewer: LEE MON HEE Signature: Lee Date: 18/4/25

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Website : www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 1808, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	41790D
Date of Issue:	2025-02-22
Date Received:	2025-02-20
Date Tested:	2025-02-20
Date Completed:	2025-02-22
Next Due Date:	2025-04-21

ATTN: **Ms. Meiling Tang**

Certificate of Calibration

Item for Calibration:

Description	: Dust Monitor
Manufacturer	: Met One Instruments
Model No.	: AEROCET-831
Serial No.	: X24478
Flow rate	: 0.1 cfm
Zero Count Test	: 0 count per 1 minute
Equipment No.	: WA-01-10

Test Conditions:

Room Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Tisch Environmental Inc.
2. In-house method in according to the instruction manual: The Dust Monitor was compared with a calibrated High Volume Sampler and the result was used to generate the Correlation Factor (CF) between the Dust Monitor and High Volume Sampler.

Results:

Correlation Factor (CF)	1.139

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

Patrick Tse
PATRICK TSE
General Manager

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TSP - Total Suspended Particulates (1 hr Dust Meter)
Calibration Report

Dust Meter	Dust Meter	High Volume Sampler
Equipment No.:	WA-01-10	WA-12-09
Model No. :	AEROCET-831	TE-5170
Serial No.	X24478	2203
Calibration Date:	20-Feb-25	20-Feb-25
Location:	Wellab Office (Calibration Room)	

Calibration of 1 hr TSP		
Calibration Point	**Dust Meter**	**HVS**
	Mass Concentration (μg/m³) **X-axis**	Mass concentration (μg/m³) **Y-axis**
1	10	15
2	30	37
3	44	53
4	78	86
5	95	101
Average	**51.4**	**58.5**

By Linear Regression of Y on X

Slope , mw = **1.0166** **Intercept, bw =** **6.2878**

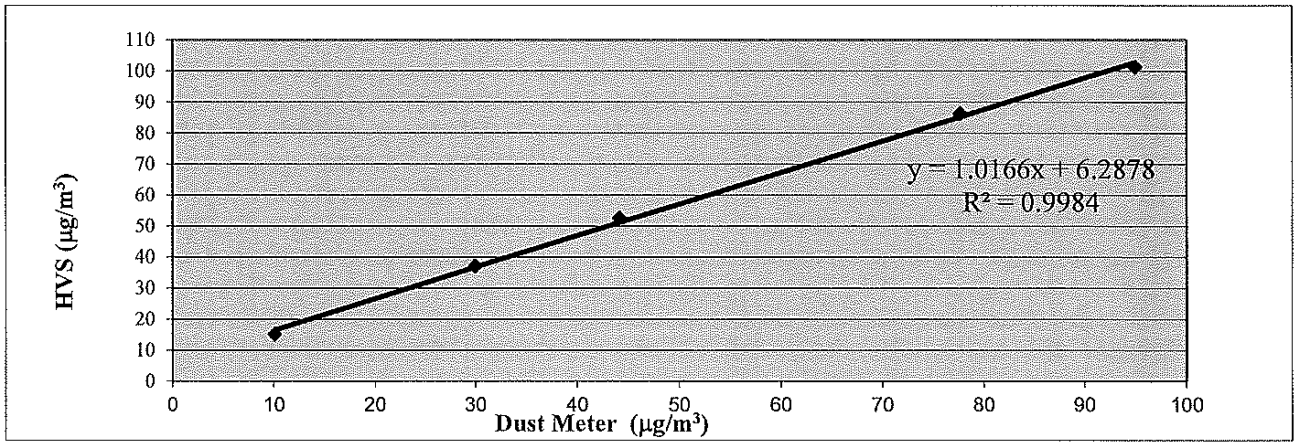
Correlation coefficient* = **0.9992**

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particaulate Concentration by High Volume Sampler (μg/m³)	58.5
Particaulate Concentration by Dust Meter (μg/m³)	51.4
Measureing time, (min)	60

Set Correlation Factor , SCF

SCF = [K=High Volume Sampler / Dust Meter, (μg/m³)] **1.139**



QC Reviewer: LEE MAN HEI Signature: Lei Date: 20/2/2025

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High-Volume TSP Sampler
5-POINT CALIBRATION DATA SHEET

File No. Cal./250220

Equipment No.: WA-12-09 Serial No. 2203
Model No. TE-5170 Cal. Date: 20-Feb-25
Operator: HL

Ambient Condition			
Temperature, Ta (K)	290.5	Pressure, Pa (mmHg)	769.6

Orifice Transfer Standard Information					
Serial No.	0993	Slope, mc	0.0574	Intercept, bc	-0.04420
Last Calibration Date:	7-Jan-25	**mc x Qstd + bc = [ΔH x (Pa/760) x (298/Ta)]$^{1/2}$**			
Next Calibration Date:	7-Jan-26	**Qstd = {[ΔH x (Pa/760) x (298/Ta)]$^{1/2}$ -bc} / mc**			

Calibration of TSP Sampler

Calibration Point	Orfice			HVS	
	ΔH (orifice), in. of water	[ΔH x (Pa/760) x (298/Ta)]$^{1/2}$	Qstd (CFM) **X - axis**	ΔW (HVS), in. of water	[ΔW x (Pa/760) x (298/Ta)]$^{1/2}$ **Y-axis**
1	12.8	3.65	64.25	8.3	2.94
2	10.4	3.29	57.99	6.8	2.66
3	7.7	2.83	50.00	5.0	2.28
4	5.2	2.32	41.23	3.8	1.99
5	3.6	1.93	34.43	2.7	1.67

By Linear Regression of Y on X

Slope , mw = **0.0417** **Intercept, bw :** **0.2380**

Correlation coefficient* = **0.9984**

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

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

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

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

Therefore, Set Point; W = (mw x Qstd + bw)^2 x (760 / Pa) x (Ta / 298) = **3.98**

Remarks:

Conducted by: LEE MAN HEZI Signature: [signature] Date: 20/2/2025
Checked by: [signature] Signature: [signature] Date: 20/2/2025

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High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET

File No. Cal./250314

Equipment No.: WA-12-09 Serial No. 2203

Model No. TE-5170 Cal. Date: 14-Mar-25

Operator: HL

Ambient Condition			
Temperature, Ta (K)	293.6	Pressure, Pa (mmHg)	764.1

Orifice Transfer Standard Information					
Serial No.	0993	Slope, mc	0.0574	Intercept, bc	-0.04420
Last Calibration Date:	7-Jan-25	$mc \times Qstd + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$			
Next Calibration Date:	7-Jan-26	$Qstd = \{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$			

Calibration of TSP Sampler

Calibration Point	Orfice			HVS	
	ΔH (orifice), in. of water	$[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$	Qstd (CFM) **X - axis**	ΔW (HVS), in. of water	$[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ **Y-axis**
1	11.5	3.43	60.40	7.9	2.84
2	10.0	3.19	56.38	6.8	2.63
3	7.8	2.82	49.88	5.3	2.33
4	5.1	2.28	40.48	3.6	1.92
5	3.4	1.86	33.19	2.4	1.56

By Linear Regression of Y on X

Slope , mw = 0.0463 **Intercept, bw :** 0.0292

Correlation coefficient* = 0.9997

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

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

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

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

Therefore, Set Point; $W = (mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$ **4.00**

Remarks:

Conducted by: LEE MAN HEI Signature: Date: 14/3/25

Checked by: PO Ka-man Signature: Date: 14/3/25

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High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET

File No. Cal./250418

Equipment No.: WA-12-09 Serial No. 2203

Model No. TE-5170 Cal. Date: 18-Apr-25

Operator: HL

Ambient Condition			
Temperature, Ta (K)	294.1	Pressure, Pa (mmHg)	761.4

Orifice Transfer Standard Information					
Serial No.	0993	Slope, mc	0.0574	Intercept, bc	-0.04420
Last Calibration Date:	7-Jan-25	**mc x Qstd + bc = $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$**			
Next Calibration Date:	7-Jan-26	**Qstd = $\{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$**			

Calibration of TSP Sampler

Calibration Point	Orfice			HVS	
	ΔH (orifice), in. of water	$[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$	Qstd (CFM) **X - axis**	ΔW (HVS), in. of water	$[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ **Y-axis**
1	12.1	3.50	61.78	8.3	2.90
2	10.2	3.22	56.78	6.9	2.65
3	7.4	2.74	48.48	5.0	2.25
4	5.6	2.38	42.27	3.6	1.91
5	3.1	1.77	31.65	2.3	1.53

By Linear Regression of Y on X

Slope , mw = 0.0462 **Intercept, bw = 0.0203**

Correlation coefficient* = 0.9972

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

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

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

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

Therefore, Set Point; $W = (mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$ **3.97**

Remarks:

Conducted by: Lee Man Hei Signature: Date: 18/4/25

Checked by: Ho Ka Chun Signature: Date: 18/4/25

TISCH Environmental

RECALIBRATION DUE DATE:
January 7, 2026

Certificate of Calibration

Calibration Certification Information					
Cal. Date:	January 7, 2025	**Rootsmeter S/N:** 438320	**Ta:** 293	°K	
Operator:	Jim Tisch		**Pa:** 759.0	mm Hg	
Calibration Model #:	TE-5025A	**Calibrator S/N:** **0993**			

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.3940	3.2	2.00
2	3	4	1	0.9920	6.4	4.00
3	5	6	1	0.8890	7.9	5.00
4	7	8	1	0.8470	8.8	5.50
5	9	10	1	0.6990	12.7	8.00

Data Tabulation

Vstd (m3)	Qstd (x-axis)	$\sqrt{\Delta H\left(\frac{Pa}{Pstd}\right)\left(\frac{Tstd}{Ta}\right)}$ (y-axis)	Va	Qa (x-axis)	$\sqrt{\Delta H\left(Ta/Pa\right)}$ (y-axis)
1.0114	0.7255	1.4252	0.9958	0.7143	0.8787
1.0071	1.0152	2.0156	0.9916	0.9996	1.2427
1.0051	1.1306	2.2535	0.9896	1.1132	1.3893
1.0039	1.1852	2.3635	0.9884	1.1669	1.4572
0.9987	1.4287	2.8505	0.9833	1.4067	1.7574
QSTD	**m=**	**2.02896**	**QA**	**m=**	**1.27050**
	b=	**-0.04420**		**b=**	**-0.02725**
	r=	**0.99998**		**r=**	**0.99998**

Calculations

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

For subsequent flow rate calculations:

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

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

Standard Conditions	
Tstd:	298.15 °K
Pstd:	760 mm Hg

Key

- ΔH: calibrator manometer reading (in H2O)
- ΔP: rootsmeter manometer reading (mm Hg)
- Ta: actual absolute temperature (°K)
- Pa: actual barometric pressure (mm Hg)
- b: intercept
- m: slope

RECALIBRATION

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

Tisch Environmental, Inc.
145 South Miami Avenue
Village of Cleves, OH 45002

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FAX: (513)467-9009

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High-Volume TSP Sampler

5-POINT CALIBRATION DATA SHEET

Station	FLN-DMS1 - Scattered Village Houses North of Proposed Potential Ecopark	File No.	WMA20002/20/0030
Date:	3-Mar-25	Next Due Date:	2-May-25
Model No.	TE-5170	Operator:	HL
Equipment No.:	WA-12-20	Serial No.	3223

Ambient Condition			
Temperature, Ta (K)	299	Pressure, Pa (mmHg)	761.4

Orifice Transfer Standard Information					
Serial No.	0993	Slope, mc	0.0574	Intercept, bc	-0.04420
Last Calibration Date:	7-Jan-25	**mc x Qstd + bc = [ΔH x (Pa/760) x (298/Ta)]$^{1/2}$**			
Next Calibration Date:	7-Jan-26	**Qstd = {[ΔH x (Pa/760) x (298/Ta)]$^{1/2}$ -bc} / mc**			

Calibration of TSP Sampler

Calibration Point	Orfice			HVS	
	ΔH (orifice), in. of water	[ΔH x (Pa/760) x (298/Ta)]$^{1/2}$	Qstd (CFM) **X - axis**	ΔW (HVS), in. of water	[ΔW x (Pa/760) x (298/Ta)]$^{1/2}$ **Y-axis**
1	13.2	3.63	63.97	8.2	2.86
2	10.5	3.24	57.14	6.8	2.61
3	7.8	2.79	49.35	5.1	2.26
4	6.7	2.59	45.79	4.4	2.10
5	3.3	1.82	32.37	2.5	1.58

By Linear Regression of Y on X

Slope , mw = 0.0410 **Intercept, bw :** 0.2397

Correlation coefficient* = 0.9994

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

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

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

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

Therefore, Set Point; W = (mw x Qstd + bw)^2 x (760 / Pa) x (Ta / 298) = **4.02**

Remarks:

Conducted by: LEE MAN HEI Signature: Date: 3/3/2025

Checked by: Ho Lea Chan Signature: Date: 3/3/2025

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High-Volume TSP Sampler
5-POINT CALIBRATION DATA SHEET

Station	FLN-DMS3 - House near Tong Hang	File No.	WMA20002/17/0030
Date:	3-Mar-25	Next Due Date:	2-May-25
Model No.	TE-5170	Operator:	HL
Equipment No.:	WA-12-17	Serial No.	3218

Ambient Condition			
Temperature, Ta (K)	300.2	Pressure, Pa (mmHg)	760.8

Orifice Transfer Standard Information					
Serial No.	0993	Slope, mc	0.0574	Intercept, bc	-0.04420
Last Calibration Date:	7-Jan-25	**mc x Qstd + bc = [ΔH x (Pa/760) x (298/Ta)]$^{1/2}$**			
Next Calibration Date:	7-Jan-26	**Qstd = {[ΔH x (Pa/760) x (298/Ta)]$^{1/2}$ -bc} / mc**			

Calibration of TSP Sampler

Calibration Point	Orfice			HVS	
	ΔH (orifice), in. of water	[ΔH x (Pa/760) x (298/Ta)]$^{1/2}$	Qstd (CFM) **X - axis**	ΔW (HVS), in. of water	[ΔW x (Pa/760) x (298/Ta)]$^{1/2}$ **Y-axis**
1	13.1	3.61	63.58	8.4	2.89
2	11.0	3.31	58.32	7.1	2.66
3	9.8	3.12	55.09	6.5	2.54
4	7.0	2.64	46.68	4.9	2.21
5	3.8	1.94	34.60	2.6	1.61

By Linear Regression of Y on X

Slope , mw = **0.0438** **Intercept, bw :** **0.1187**

Correlation coefficient* = **0.9984**

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

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

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

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

Therefore, Set Point; W = (mw x Qstd + bw)^2 x (760 / Pa) x (Ta / 298) = **4.03**

Remarks:

Conducted by: LEE MAN KEE Signature: [signature] Date: 3/3/2025

Checked by: Ho ka chun Signature: [signature] Date: 3/3/2025

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RSP - Respirable Suspended Particulates Sampler (PM 10)
Field Calibration Report

Station	KTN-DMS4A - Temporary Structure at Pak Shek Au	File No.	WMA20002/03/0030
Date:	31-Mar-25	Next Due Date:	30-May-25
Model No.	TE-6070X	Operator:	HL
Equipment No.:	WA-11-03	Serial No.	3225

Ambient Condition			
Temperature, Ta (K)	284.6	Pressure, Pa (mmHg)	769

Orifice Transfer Standard Information					
Serial No.:	0993	Slope, mc	0.0574	Intercept, bc	-0.04420
Last Calibration Date:	7-Jan-25	Next Calibration Date:		7-Jan-26	

Calibration of RSP Sampler

Calibration Point	ORIFICE					HVS	
	ΔH(orifice), in. of water	Del Hc (1)	Qstd (2) (CFM)	Qa (3) (CFM) **X -axis**	Qa (3) (m^3/min) **X -axis**	ΔW (HVS), in. of water	$[\Delta W \times (Ta + 30) / Pa]^{1/2}$ **Y-axis**
1	12	12.71	62.84	59.31	1.68	8.4	1.85
2	10.1	10.70	57.71	54.47	1.54	7.1	1.70
3	8.0	8.48	51.45	48.56	1.37	6.1	1.58
4	5.3	5.62	42.02	39.66	1.12	4.5	1.36
5	3.6	3.81	34.77	32.81	0.93	3.2	1.14

By Linear Regression of Y on X

Slope , mw = **0.0260** **Intercept, bw =** **0.3045**

Correlation coefficient* = **0.9983**

(1) DEL Hc = ΔH x (Pa/760*298/Ta)

(2) Qstd = $\{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\}/mc$ (m3/min)

(3) Qa = Qstd x (Ta / Pa) x (760 / 298) (m3/min)

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

Set Point Flow Rate., SFR

SFR = 1.13 x (760/Pa) x (Ta/298) = **37.69**

Sampler Well - Type Manometer Set Point, SSP

SSP = $[(mw \times SFR + bw)^2 \times Pa] / (Ta + 30)$ = **4.04**

Remarks:

Conducted by: LEE MAN HEI Signature: Date: 31/3/25

Checked by: Ho Ka Lun Signature: Date: 31/3/25

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WELLAB LIMITED
Room 1714, Technology Park
18 On Lai Street, Shatin
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Tel: 2898 7388 Fax: 2898 7076
Website : www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 1808, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	41977B
Date of Issue:	2025-03-03
Date Received:	2025-02-26
Date Tested:	2025-02-26
Date Completed:	2025-03-03
Next Due Date:	2026-03-02

Page: 1 of 1

ATTN: **Ms. Meiling Tang**

Certificate of Calibration

Item for calibration:

Description	: Sound Level Meter
Manufacturer	: BSWA
Model No.	: BSWA 308
Serial No.	: 580005
Equipment No.	: WN-01-03

Test conditions:

Room Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

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Website : www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 1808, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	41977E
Date of Issue:	2025-03-03
Date Received:	2025-02-26
Date Tested:	2025-02-26
Date Completed:	2025-03-03
Next Due Date:	2026-03-02

ATTN: **Ms. Meiling Tang**

Certificate of Calibration

Item for calibration:

Description	: Sound Level Meter
Manufacturer	: BSWA
Model No.	: BSWA 308
Serial No.	: 580008
Equipment No.	: WN-01-06

Test conditions:

Room Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

Patrick Tse
PATRICK TSE
General Manager

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TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 1808, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	41978
Date of Issue:	2025-03-10
Date Received:	2025-03-07
Date Tested:	2025-03-07
Date Completed:	2025-03-10
Next Due Date:	2026-03-09

ATTN: **Ms. Meiling Tang**

Certificate of Calibration

Item for calibration:

Description	: Sound Level Meter
Manufacturer	: BSWA
Model No.	: BSWA 308
Serial No.	: 580011
Equipment No.	: WN-01-08

Test conditions:

Room Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

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Website: www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 1808, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	40837
Date of Issue:	2024-08-19
Date Received:	2024-08-15
Date Tested:	2024-08-15
Date Completed:	2024-08-19
Next Due Date:	2025-08-18

ATTN: **Ms. Meiling Tang**

Certificate of Calibration

Item for Calibration:

Description	: Acoustical Calibrator
Manufacturer	: Brüel & Kjær
Model No.	: 4231
Serial No.	: 2412367
Equipment No.	: N-02-03

Test Conditions:

Room Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Methodology:

The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

Results:

Sound Pressure Level (1kHz)	Measured SPL	Tolerance
At 94 dB SPL	94.0	94.0 ± 0.1dB
At 114 dB SPL	114.0	114.0 ± 0.1dB

Remark: This report supersedes the one dated 2019-08-20 with certificate number 31951.

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

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TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 1808, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	41118
Date of Issue:	2024-10-02
Date Received:	2024-09-30
Date Tested:	2024-09-30
Date Completed:	2024-10-02
Next Due Date:	2025-10-01

ATTN: **Ms. Meiling Tang**

Certificate of Calibration

Item for calibration:

Description	: Acoustical Calibrator
Manufacturer	: SVANTEK
Model No.	: SV30A
Serial No.	: 24803
Equipment No.	: N-09-03

Test conditions:

Room Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Methodology:

The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

Results:

Sound Pressure Level (1kHz)	Measured SPL	Tolerance
At 94 dB SPL	94.0	94.0 ± 0.1 dB
At 114 dB SPL	114.0	114.0 ± 0.1 dB

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

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N.T., Hong Kong.
Tel: 2898 7388 Fax: 2898 7076
Website: www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab Limited**
(EM&A Department)
Room 1808, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	40837A
Date of Issue:	2024-08-19
Date Received:	2024-08-15
Date Tested:	2024-08-15
Date Completed:	2024-08-19
Next Due Date:	2025-08-18

Page: 1 of 1

ATTN: **Ms. Meiling Tang**

Certificate of Calibration

Item for calibration:

Description	: Acoustical Calibrator
Manufacturer	: SVANTEK
Model No.	: SV30A
Serial No.	: 24791
Equipment No.	: N-09-04

Test conditions:

Room Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Methodology:

The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

Results:

Sound Pressure Level (1kHz)	Measured SPL	Tolerance
At 94 dB SPL	94.0	94.0 ± 0.1 dB
At 114 dB SPL	114.0	114.0 ± 0.1 dB

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

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TEST REPORT

APPLICANT: **Wellab Limited (EM&A)**
RM 1808, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

Test Report No.:	41964A
Date of Issue:	2025-03-21
Date Received:	2025-03-20
Date Tested:	2025-03-20 to 2025-03-21
Date Completed:	2025-03-21

ATTN: **Miss Mei Ling Tang**

Page: 1 of 2

Certificate of Calibration

Item for calibration:

YSI EXO1 Multiparameter Sondes	Equipment No.:	SW-08-83
Manufacturer:	YSI Incorporated, a Xylem brand	
Description:	Model No.	Serial No.
- EXO1 Sonde, 100 meter Depth, 4 Sensor ports	599502-24	17A104735
- EXO Optical DO Sensor, Ti	599100-01	17B102220
- EXO conductivity/Temperature Sensor, Ti	599870	17B100808
- EXO Turbidity Sensor, Ti	599101-01	18C101823
- EXO pH Sensor Assembly, Guarded, Ti	599701	17B103644

Test conditions:

Room Temperature : 17-22 degree Celsius
Relative Humidity : 40-70%

Test Specifications:

Performance checking for Conductivity, Temperature, pH, Dissolved oxygen (D.O.) and Turbidity

Methodology:

According to manufacturer instruction manual, APHA 20e 4500-O C

****

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For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

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TEST REPORT

Test Report No.:	41964A
Date of Issue:	2025-03-21
Date Received:	2025-03-20
Date Tested:	2025-03-20 to 2025-03-21
Date Completed:	2025-03-21

Certificate of Calibration

Results:

Conductivity performance checking

	Instrument Readings (μS/cm)	Accetance Criteria	Comment
KCl stock solution (12890 μS/cm)	13100	12246-13534	Pass

Temperature performance checking

Reference thermometer-E431 Readings (°C)	Instrument Readings (°C)	Correction (°C)	Comment
20.0	20.000	0.000	N/A

pH performance checking

	Instrument Readings (pH unit)	Accetance Criteria	Comment
pH QC buffer 4.00	3.99	4.00 ± 0.10	Pass
pH QC buffer 6.86	6.89	6.86 ± 0.10	Pass
pH QC buffer 9.18	9.22	9.18 ± 0.10	Pass

D.O. performance checking

	Instrument Readings (mg/L)	Accetance Criteria	Comment
Zero DO soultion	0.08	<0.1mg/L	Pass

Winkler Titration value (mg/L)	Instrument Readings (mg/L)	Accetance Criteria	Comment
8.01	8.06	Difference between Titration value and instrument reading <0.2mg/L	Pass

Turbidity performance checking

Turbidity stock solution	Instrument Readings (NTU)	Accetance Criteria	Comment
10 NTU	10.01	9.0-11.0	Pass
50 NTU	50.07	45.0-55.0	Pass
100 NTU	102.1	90.0-110.0	Pass

Depth performance checking

Water Depth	Instrument Readings (m)	Accetance Criteria	Comment
0.5 meter	0.50	0.45-0.55	Pass

**********END OF REPORT**********

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TEST REPORT

APPLICANT: **Wellab Limited (EM&A)**
RM 1808, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

Test Report No.:	41964D
Date of Issue:	2025-03-21
Date Received:	2025-03-20
Date Tested:	2025-03-20 to 2025-03-21
Date Completed:	2025-03-21

ATTN: **Miss Mei Ling Tang**

Page: 1 of 2

Certificate of Calibration

Item for calibration:

YSI EXO1 Multiparameter Sondes	Equipment No.:	SW-08-129
Manufacturer:	YSI Incorporated, a Xylem brand	
Description:	Model No.	Serial No.
- EXO1 Sonde, 100 meter Depth, 4 Sensor ports	599502-24	17B101455
- EXO Optical DO Sensor, Ti	599100-01	17M101337
- EXO conductivity/Temperature Sensor, Ti	599870	17B100784
- EXO Turbidity Sensor, Ti	599101-01	16J101112
- EXO pH Sensor Assembly, Guarded, Ti	599701	16J100565

Test conditions:

Room Temperature : 17-22 degree Celsius
Relative Humidity : 40-70%

Test Specifications:

Performance checking for Conductivity, Temperature, pH, Dissolved oxygen (D.O.) and Turbidity

Methodology:

According to manufacturer instruction manual, APHA 20e 4500-O C

****

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

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TEST REPORT

Test Report No.:	41964D
Date of Issue:	2025-03-21
Date Received:	2025-03-20
Date Tested:	2025-03-20 to 2025-03-21
Date Completed:	2025-03-21

Certificate of Calibration

Results:

Conductivity performance checking

	Instrument Readings (μS/cm)	Accetance Criteria	Comment
KCl stock solution (12890 μS/cm)	13000	12246-13534	Pass

Temperature performance checking

Reference thermometer-E431 Readings (°C)	Instrument Readings (°C)	Correction (°C)	Comment
20.0	20.002	-0.002	N/A

pH performance checking

	Instrument Readings (pH unit)	Accetance Criteria	Comment
pH QC buffer 4.00	4.03	4.00 ± 0.10	Pass
pH QC buffer 6.86	6.89	6.86 ± 0.10	Pass
pH QC buffer 9.18	9.16	9.18 ± 0.10	Pass

D.O. performance checking

	Instrument Readings (mg/L)	Accetance Criteria	Comment
Zero DO soultion	0.08	<0.1mg/L	Pass

Winkler Titration value (mg/L)	Instrument Readings (mg/L)	Accetance Criteria	Comment
8.01	7.96	Difference between Titration value and instrument reading <0.2mg/L	Pass

Turbidity performance checking

Turbidity stock solution	Instrument Readings (NTU)	Accetance Criteria	Comment
10 NTU	10.01	9.0-11.0	Pass
50 NTU	50.09	45.0-55.0	Pass
100 NTU	101.2	90.0-110.0	Pass

Depth performance checking

Water Depth	Instrument Readings (m)	Accetance Criteria	Comment
0.5 meter	0.50	0.45-0.55	Pass

**********END OF REPORT**********

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F: +852 2610 2021
www.alsglobal.com

CERTIFICATE OF ANALYSIS

CONTACT:	MR WS CHAN	**WORK ORDER:**	HK2443152
CLIENT:	AECOM ASIA COMPANY LIMITED		
ADDRESS:	1501-10, 15/F, TOWER 1, GRAND CENTRAL PLAZA, 138 SHATIN RURAL COMMITTEE ROAD, SHATIN, NEW TERRITORIES, HONG KONG	**SUB BATCH:**	0
		LABORATORY:	HONG KONG
		DATE RECEIVED:	21-Oct-2024
		DATE OF ISSUE:	01-Nov-2024

SPECIFIC COMMENTS

Equipment information (Brand name, Model No., Serial No. and Equipment No.) is provided by client.
The performance of the equipment stated in this report is checked with independent reference material and results are compared against a calibrated secondary source.
The "Instrument Specification" quoted is the acceptance criteria applicable for similar equipment used by the laboratory or quoted from relevant international standards.
The "Next Calibration Date" is recommended according to best practice principles as practised by the laboratory or quoted from relevant international standards.
The validity of equipment/ meter performance only applies to the result(s) stated in the report.

Equipment Type:	Landfill Gas Analyser
Service Nature:	Performance Check
Scope:	Carbon dioxide, Methane and Oxygen
Brand Name/ Model No.:	Geotech / GA5000
Serial No./Equipment No.:	G501744
Date of Calibration:	01 November, 2024

GENERAL COMMENTS

This report superseded any previous report(s) with same work order number.

Ms Chan Ka Yu, Karen
Manager - Organics

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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

Work Order: HK2443152
Sub-Batch: 0
Client: AECOM ASIA COMPANY LIMITED
Date of Issue: 01-Nov-2024

Equipment Type: Landfill Gas Analyser
Brand Name/ Model No.: Geotech / GA5000
Serial No./ Equipment No.: G501744
Date of Calibration: 01 November, 2024 Next Calibration Date: 01 November, 2025

Parameters:

Methane

Calibrated Gas Standard, %	Monitor Readout, %	% error	Instrument Specification, %
0.0 (Nitrogen)	0.0	0.0	± 0.5
1.0	1.0	0.0	± 0.5
2.5	2.6	0.1	± 0.5
10.0	10.5	0.5	± 0.5
49.8	49.6	-0.2	± 0.5

Carbon Dioxide

Calibrated Gas Standard, %	Monitor Readout, %	% error	Instrument Specification, %
0.0 (Nitrogen)	0.0	0.0	± 0.5
1.0	1.0	0.0	± 0.5
2.5	2.6	0.1	± 0.5
10.1	9.9	-0.2	± 0.5
50.1	50.1	0.0	± 0.5

Oxygen

Calibrated Gas Standard, %	Monitor Readout, %	% error	Instrument Specification, %
0.0 (Nitrogen)	0.0	0.0	± 1.0
0.5	0.5	0.0	± 1.0
2.5	2.6	0.1	± 1.0
9.8	10.0	0.2	± 1.0
23.3	23.7	0.4	± 1.0

Ms Chan Ka Yu, Karen
Manager - Organics

-------- END OF REPORT --------

APPENDIX D
ENVIRONMENTAL MONITORING SCHEDULES

Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Impact Air Quality and Noise Monitoring Schedule (April 2025)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1-Apr	2-Apr	3-Apr	**4-Apr**	5-Apr
			1hr TSP* X3 KTN-DMS4(B), FLN-DMS5 **24hr TSP*** KTN-DMS4(B), FLN-DMS5A **Noise** CP-KTN-NMS2, CP-KTN-NMS3, CP-KTN-NMS5, CP-KTN-NMS6 **24hr RSP (Arsenic)** KTN-DMS4A **24hr TSP** FLN-DMS1, FLN-DMS3	**1hr TSP* X3** FLN-DMS1, FLN-DMS3		
6-Apr	7-Apr	8-Apr	9-Apr	10-Apr	11-Apr	12-Apr
	1hr TSP* X3 KTN-DMS4(B), FLN-DMS5 **24hr TSP*** KTN-DMS4(B), FLN-DMS5A **Noise** CP-KTN-NMS2, CP-KTN-NMS3, CP-KTN-NMS5, CP-KTN-NMS6 **24hr RSP (Arsenic)** KTN-DMS4A **24hr TSP** FLN-DMS1, FLN-DMS3	**1hr TSP* X3** FLN-DMS1, FLN-DMS3 **Noise** CP-FLN-NMS1, CP-FLN-NMS2			**1hr TSP* X3** KTN-DMS4(B), FLN-DMS5 **24hr TSP*** KTN-DMS4(B), FLN-DMS5A **24hr RSP (Arsenic)** KTN-DMS4A **24hr TSP** FLN-DMS1, FLN-DMS3	
13-Apr	14-Apr	15-Apr	16-Apr	17-Apr	**18-Apr**	**19-Apr**
	1hr TSP* X3 FLN-DMS1, FLN-DMS3 **Noise** CP-FLN-NMS1, CP-FLN-NMS2		**1hr TSP* X3** KTN-DMS4(B), FLN-DMS5 **24hr TSP*** KTN-DMS4(B), FLN-DMS5A **Noise** CP-KTN-NMS2, CP-KTN-NMS3, CP-KTN-NMS5, CP-KTN-NMS6 **24hr RSP (Arsenic)** KTN-DMS4A **24hr TSP** FLN-DMS1, FLN-DMS3	**1hr TSP* X3** FLN-DMS1, FLN-DMS3		
20-Apr	**21-Apr**	22-Apr	23-Apr	24-Apr	25-Apr	26-Apr
		1hr TSP* X3 KTN-DMS4(B), FLN-DMS5 **24hr TSP*** KTN-DMS4(B), FLN-DMS5A **Noise** CP-KTN-NMS2, CP-KTN-NMS3, CP-KTN-NMS5, CP-KTN-NMS6 **24hr RSP (Arsenic)** KTN-DMS4A **24hr TSP** FLN-DMS1, FLN-DMS3	**1hr TSP* X3** FLN-DMS1, FLN-DMS3 **Noise** CP-FLN-NMS1, CP-FLN-NMS2			
27-Apr	28-Apr	29-Apr	30-Apr			
	1hr TSP* X3 KTN-DMS4(B), FLN-DMS5 **24hr TSP*** KTN-DMS4(B), FLN-DMS5A **Noise** CP-KTN-NMS2, CP-KTN-NMS3, CP-KTN-NMS5, CP-KTN-NMS6 **24hr RSP (Arsenic)** KTN-DMS4A **24hr TSP** FLN-DMS1, FLN-DMS3	**1hr TSP* X3** FLN-DMS1, FLN-DMS3 **Noise** CP-FLN-NMS1, CP-FLN-NMS2				

Remarks:
*Monitoring session would be conducted by portable TSP monitor.

Environmental Permit(s)	Contract No.	Air Quality Stations	Noise Stations
EP-466/2013/A EP-467/2013/A EP-468/2013/A	ND/2019/01	**1hr TSP and 24hr TSP** KTN-DMS4(B) - Temporary Structure near Fanling Highway (near Pak Shek Au)	--
EP-468/2013/A	ND/2019/03		
EP-466/2013/A EP-467/2013/A EP-468/2013/A	ND/2019/01	**24hr RSP (Arsenic)** KTN-DMS4A - Temporary Structure at Pak Shek Au	--
EP-468/2013/A	ND/2019/03		
EP-467/2013/A EP-468/2013/A(1)	ND/2019/01	--	CP-KTN-NMS2 - Residential Buildings at Ma Tso Lung
EP-468/2013/A(2)	ND/2019/01	--	CP-KTN-NMS3 -Fung Kong Garden
EP-469/2013(3)	ND/2019/02	--	CP-KTN-NMS6 - Ho Sheung Heung, Hau Ku Shek Ancestral Hall, Hung Shing Temple & Pai Fung Temple and Sin Wai Nunnery
EP-470/2013/A	ND/2019/01	--	CP-KTN-NMS5 - N/A
EP-473/2013/A(4)	ND/2019/03	**1hr TSP and 24hr TSP** FLN-DMS1 - Scattered Village Houses North of Proposed Potential Ecopark	--
	ND/2019/04		--
EP-473/2013/A(5)	ND/2019/05	**1hr TSP and 24hr TSP** FLN-DMS3 - House near Tong Hang	--
EP-473/2013/A(6)	ND/2019/03	**1hr TSP** FLN-DMS5 - Noble Hill **24hr TSP** FLN-DMS5A - Good View New Village	--
	ND/2019/04		--
EP-473/2013/A(7)	ND/2019/05	--	CP-FLN-NMS2 - Scattered Village Houses in Tong Hang
EP-473/2013/A(8)	ND/2019/04	--	CP-FLN-NMS1 - Belair Monte
	ND/2019/05	--	
EP-475/2013/A	ND/2019/06	--	

Remarks:

1. Since the distance between monitoring station CP-KTN-NMS2 and site boundary of ND/2019/03 under EP-468/2013/A exceeds 300m. The monitoring station is not applicable to ND/2019/03
2. Since the distance between monitoring station CP-KTN-NMS3 and site boundary of ND/2019/03 under EP-468/2013/A exceeds 300m. The monitoring station is not applicable to ND/2019/03
3. Since the distance between monitoring station CP-KTN-NMS1 and site boundary of ND/2019/02 under EP-469/2013 exceeds 300m. The monitoring station is not applicable to ND/2019/02
4. Since the distance between monitoring station FLN-DMS1 and site boundary of ND/2019/05 under EP-473/2013/A exceeds500m. The monitoring station is not applicable to ND/2019/05
5. Since the distance between monitoring station FLN-DMS3 and site boundary of ND/2019/03 and ND/2019/04 under EP-473/2013/A exceeds 500m. The monitoring station is not applicable to ND/2019/03 and ND/2019/04
6. Since the distance between monitoring station FLN-DMS5 and site boundary of ND/2019/05 under EP-473/2013/A exceeds 500m. The monitoring station is not applicable to ND/2019/05
7. Since the distance between monitoring station CP-FLN-NMS2 and site boundary of ND/2019/03 and ND/2019/04 under EP-473/2013/A exceeds 300m. The monitoring station is not applicable to ND/2019/03 and ND/2019/04.
8. Since the distance between monitoring station CP-FLN-NMS1 and site boundary of ND/2019/03 under EP-473/2013/A exceeds 300m. The monitoring station is not applicable to ND/2019/03.

Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Impact Water Quality Monitoring Schedule (April 2025)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1-Apr	2-Apr	3-Apr	**4-Apr**	5-Apr
			Water Quality Monitoring River Beas, River Indus and near Siu Hang San Tsuen Stream			**Water Quality Monitoring** River Beas, River Indus and near Siu Hang San Tsuen Stream
6-Apr	7-Apr	8-Apr	9-Apr	10-Apr	11-Apr	12-Apr
	Water Quality Monitoring River Beas, River Indus and near Siu Hang San Tsuen Stream		**Water Quality Monitoring** River Beas, River Indus and near Siu Hang San Tsuen Stream		**Water Quality Monitoring** River Beas, River Indus and near Siu Hang San Tsuen Stream	
13-Apr	14-Apr	15-Apr	16-Apr	17-Apr	**18-Apr**	**19-Apr**
	Water Quality Monitoring River Beas, River Indus and near Siu Hang San Tsuen Stream		**Water Quality Monitoring** River Beas, River Indus and near Siu Hang San Tsuen Stream		**Water Quality Monitoring** River Beas, River Indus and near Siu Hang San Tsuen Stream	
20-Apr	**21-Apr**	22-Apr	23-Apr	24-Apr	25-Apr	26-Apr
		Water Quality Monitoring River Beas, River Indus and near Siu Hang San Tsuen Stream		**Water Quality Monitoring** River Beas, River Indus and near Siu Hang San Tsuen Stream		**Water Quality Monitoring** River Beas, River Indus and near Siu Hang San Tsuen Stream
27-Apr	28-Apr	29-Apr	30-Apr			
	Water Quality Monitoring River Beas, River Indus and near Siu Hang San Tsuen Stream		**Water Quality Monitoring** River Beas, River Indus and near Siu Hang San Tsuen Stream			

Water Quality Monitoring Stations
River Beas: SYR-CS1 - Upstream of river, SYR-IS1 - Downstream of river
River Indus and near Siu Hang San Tsuen Stream: NTR-CS1 - Upstream of river, NTR-IS1 - Downstream of river, SHST-IS2 - Water sensitive receiver at near Siu Hang San Tsuen Stream, MWR-IS3 - Water sensitive receiver at near Ma Wat River

Environmental Permit(s)	Contract No.	Water Quality Stations
EP-469/2013	ND/2019/02	**River Beas** SYR-CS1 - Upstream of river SYR-IS1 - Downstream of river
EP-473/2013/A	ND/2019/04	**River Indus and near Siu Hang San Tsuen Stream** NTR-CS1 - Upstream of river NTR-IS1 - Downstream of river SHST-IS2 - Water sensitive receiver at near Siu Hang San Tsuen Stream MWR-IS3 - Water sensitive receiver at near Ma Wat River

Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Impact Ecological Monitoring Schedule (April 2025)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1-Apr	2-Apr	3-Apr	**4-Apr**	5-Apr
		Monitoring of Measures to Minimise Disturbance to Water Birds in Sheung Yue River and Long Valley **T3 T5** High tide: Start time: 9:00 Low tide: Start time: 6:00		Monitoring of Measures to Minimise Disturbance to Water Birds in Ng Tung River **T1 T2** High tide: Start time: 10:00 Low tide: Start time: 7:00		
6-Apr	7-Apr	8-Apr	9-Apr	10-Apr	11-Apr	12-Apr
	Monitoring of Measures to Minimise Impacts on Ecological Sensitive Habitats from Disturbance and Pollution **T1, T6**	Monitoring of Measures to Minimise Disturbance to Water Birds in Sheung Yue River and Long Valley **T3 T5** High tide: Start time: 9:00 Low tide: Start time: 13:00		Monitoring of Measures to Minimise Disturbance to Water Birds in Ng Tung River **T1 T2** High tide: Start time: 10:00 Low tide: Start time: 13:00		
13-Apr	14-Apr	15-Apr	16-Apr	17-Apr	**18-Apr**	**19-Apr**
	Monitoring of Measures to Minimise Disturbance to Water Birds in Ng Tung River **T1 T2** High tide: Start time: 12:00 Low tide: Start time: 15:00	Monitoring of Measures to Minimise Disturbance to Water Birds in Sheung Yue River and Long Valley #**T3 T5** High tide: Start time: 12:00 Low tide: Start time: 16:00				
20-Apr	**21-Apr**	22-Apr	23-Apr	24-Apr	25-Apr	26-Apr
			Monitoring of Measures to Minimise Disturbance to Water Birds in Ng Tung River **T1 T2** High tide: Start time: 9:00 Low tide: Start time: 12:00	Monitoring of Measures to Minimise Disturbance to Water Birds in Sheung Yue River and Long Valley **T3 T5** High tide: Start time: 9:00 Low tide: Start time: 13:00	Monitoring of Measures to Minimise Impacts to Ma Tso Lung and Siu Hang San Tsuen Stream **MS_01 - MS_15**	
27-Apr	28-Apr	29-Apr	30-Apr			
	Monitoring of Measures to Minimise Disturbance to Water Birds in Ng Tung River **T1 T2** High tide: Start time: 12:00 Low tide: Start time: 15:00	Monitoring of Measures to Minimise Disturbance to Water Birds in Sheung Yue River and Long Valley #**T3 T5** High tide: Start time: 12:00 Low tide: Start time: 16:00	Monitoring of Measures to Minimise Impacts on Ecological Sensitive Habitats from Disturbance and Pollution **T3, T4, T5**			

#Night-time avifauna monitoring in Long Valley

Item	Activity	Monitoring Stations/Transects
1	Monitoring of Measures to Minimise Disturbance to Water Birds in Ng Tung River, Sheung Yue River, and Long Valley	T1. Ng Tung River T2. Ng Tung River T3. Sheung Yue River T5. Long Valley
2	Monitoring of Measures to Minimise Impacts to Aquatic Fauna in Ma Tso Lung Stream and Siu Hang San Tsuen Stream	MS_01, MS_02, MS_03, MS_04, MS_05, MS_06, MS_07, MS_08, MS_09, MS_10, MS_11, MS_12, MS_13, MS_14, MS_15
3	Monitoring of Measures to Minimise Impacts on Ecological Sensitive Habitats from Disturbance and Pollution	T1. Ma Tso Lung riparian zone and associated wetland habitats
		T1. Green belt areas E1-8,D1-8 and G1-3 in KTN NDA
		T1. AGR one C2-4 and C2-2 in KTN NDA
		T1. Areas north of Ng Tung River
		T3. Area west of Siu Hang San Tsuen Stream
		T4. South side of Fanling Highway and Castle Peak Road in the vicinity of Pak Shek Au
		T5. Area west and east of the southern limit of the FLN NDA work area
		T6. Areas in the western part of KTN

Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Weekly Site Inspection Schedule for April 2025

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1-Apr	2-Apr	3-Apr	**4-Apr**	5-Apr
		Site Inspection (ND/2019/01)	Site Inspection (ND/2019/02)	Site Inspection (ND/2019/04)		
6-Apr	7-Apr	8-Apr	9-Apr	10-Apr	11-Apr	12-Apr
	Site Inspection (ND/2019/05) Site Inspection (ND/2019/07)	Site Inspection (ND/2019/01)	Site Inspection (ND/2019/02) Site Inspection (ND/2019/04)			
13-Apr	14-Apr	15-Apr	16-Apr	17-Apr	**18-Apr**	**19-Apr**
	Site Inspection (ND/2019/04) Site Inspection (ND/2019/01)		Site Inspection (ND/2019/02)	Site Inspection (ND/2019/05) Site Inspection (ND/2019/07)		
20-Apr	**21-Apr**	22-Apr	23-Apr	24-Apr	25-Apr	26-Apr
		Site Inspection (ND/2019/01) Site Inspection (ND/2019/02)	Site Inspection (ND/2019/05) Site Inspection (ND/2019/07)	Site Inspection (ND/2019/04)		
27-Apr	28-Apr	29-Apr	30-Apr			
	Site Inspection (ND/2019/05)	Site Inspection (ND/2019/01) Site Inspection (ND/2019/02) Site Inspection (ND/2019/04) Site Inspection (ND/2019/07)				

Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Tentative Impact Air Quality and Noise Monitoring Schedule (May 2025)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1-May	2-May	3-May
					1hr TSP* X3 KTN-DMS4(B), FLN-DMS5 **24hr TSP*** KTN-DMS4(B), FLN-DMS5A **24hr RSP (Arsenic)** KTN-DMS4A **24hr TSP** FLN-DMS1, FLN-DMS3	**1hr TSP* X3** FLN-DMS1, FLN-DMS3
4-May	**5-May**	6-May	7-May	8-May	9-May	10-May
				1hr TSP* X3 KTN-DMS4(B), FLN-DMS5 **24hr TSP*** KTN-DMS4(B), FLN-DMS5A **Noise** CP-KTN-NMS2, CP-KTN-NMS3, CP-KTN-NMS5, CP-KTN-NMS6 **24hr RSP (Arsenic)** KTN-DMS4A **24hr TSP** FLN-DMS1, FLN-DMS3	**1hr TSP* X3** FLN-DMS1, FLN-DMS3 **Noise** CP-FLN-NMS1, CP-FLN-NMS2	
11-May	12-May	13-May	14-May	15-May	16-May	17-May
			1hr TSP* X3 KTN-DMS4(B), FLN-DMS5 **24hr TSP*** KTN-DMS4(B), FLN-DMS5A **Noise** CP-KTN-NMS2, CP-KTN-NMS3, CP-KTN-NMS5, CP-KTN-NMS6 **24hr RSP (Arsenic)** KTN-DMS4A **24hr TSP** FLN-DMS1, FLN-DMS3	**1hr TSP* X3** FLN-DMS1, FLN-DMS3 **Noise** CP-FLN-NMS1, CP-FLN-NMS2		
18-May	19-May	20-May	21-May	22-May	23-May	24-May
		1hr TSP* X3 KTN-DMS4(B), FLN-DMS5 **24hr TSP*** KTN-DMS4(B), FLN-DMS5A **Noise** CP-KTN-NMS2, CP-KTN-NMS3, CP-KTN-NMS5, CP-KTN-NMS6 **24hr RSP (Arsenic)** KTN-DMS4A **24hr TSP** FLN-DMS1, FLN-DMS3	**1hr TSP* X3** FLN-DMS1, FLN-DMS3 **Noise** CP-FLN-NMS1, CP-FLN-NMS2			
25-May	26-May	27-May	28-May	29-May	30-May	**31-May**
	1hr TSP* X3 KTN-DMS4(B), FLN-DMS5 **24hr TSP*** KTN-DMS4(B), FLN-DMS5A **Noise** CP-KTN-NMS2, CP-KTN-NMS3, CP-KTN-NMS5, CP-KTN-NMS6 **24hr RSP (Arsenic)** KTN-DMS4A **24hr TSP** FLN-DMS1, FLN-DMS3	**1hr TSP* X3** FLN-DMS1, FLN-DMS3 **Noise** CP-FLN-NMS1, CP-FLN-NMS2			**1hr TSP* X3** KTN-DMS4(B), FLN-DMS5 **24hr TSP*** KTN-DMS4(B), FLN-DMS5A **24hr RSP (Arsenic)** KTN-DMS4A **24hr TSP** FLN-DMS1, FLN-DMS3	

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

Remarks:

*Monitoring session would be conducted by portable TSP monitor.

Environmental Permit(s)	Contract No.	Air Quality Stations	Noise Stations
EP-466/2013/A EP-467/2013/A EP-468/2013/A	ND/2019/01	**1hr TSP and 24hr TSP** KTN-DMS4(B) - Temporary Structure near Fanling Highway (near Pak Shek Au)	--
EP-468/2013/A	ND/2019/03		
EP-466/2013/A EP-467/2013/A EP-468/2013/A	ND/2019/01	**24hr RSP (Arsenic)** KTN-DMS4A - Temporary Structure at Pak Shek Au	--
EP-468/2013/A	ND/2019/03		
EP-467/2013/A EP-468/2013/A(1)	ND/2019/01	--	CP-KTN-NMS2 - Residential Buildings at Ma Tso Lung
EP-468/2013/A(2)	ND/2019/01	--	CP-KTN-NMS3 -Fung Kong Garden
EP-469/2013(3)	ND/2019/02	--	CP-KTN-NMS6 - Ho Sheung Heung, Hau Ku Shek Ancestral Hall, Hung Shing Temple & Pai Fung Temple and Sin Wai Nunnery
EP-470/2013/A	ND/2019/01	--	CP-KTN-NMS5 - N/A
EP-473/2013/A(4)	ND/2019/03	**1hr TSP and 24hr TSP** FLN-DMS1 - Scattered Village Houses North of Proposed Potential Ecopark	--
	ND/2019/04		--
EP-473/2013/A(5)	ND/2019/05	**1hr TSP and 24hr TSP** FLN-DMS3 - House near Tong Hang	--
EP-473/2013/A(6)	ND/2019/03	**1hr TSP** FLN-DMS5 - Noble Hill **24hr TSP** FLN-DMS5A - Good View New Village	--
	ND/2019/04		--
EP-473/2013/A(7)	ND/2019/05	--	CP-FLN-NMS2 - Scattered Village Houses in Tong Hang
EP-473/2013/A(8)	ND/2019/04	--	CP-FLN-NMS1 - Belair Monte
	ND/2019/05	--	
EP-475/2013/A	ND/2019/06	--	

Remarks:

1. Since the distance between monitoring station CP-KTN-NMS2 and site boundary of ND/2019/03 under EP-468/2013/A exceeds 300m. The monitoring station is not applicable to ND/2019/03
2. Since the distance between monitoring station CP-KTN-NMS3 and site boundary of ND/2019/03 under EP-468/2013/A exceeds 300m. The monitoring station is not applicable to ND/2019/03
3. Since the distance between monitoring station CP-KTN-NMS1 and site boundary of ND/2019/02 under EP-469/2013 exceeds 300m. The monitoring station is not applicable to ND/2019/02
4. Since the distance between monitoring station FLN-DMS1 and site boundary of ND/2019/05 under EP-473/2013/A exceeds500m. The monitoring station is not applicable to ND/2019/05
5. Since the distance between monitoring station FLN-DMS3 and site boundary of ND/2019/03 and ND/2019/04 under EP-473/2013/A exceeds 500m. The monitoring station is not applicable to ND/2019/03 and ND/2019/04
6. Since the distance between monitoring station FLN-DMS5 and site boundary of ND/2019/05 under EP-473/2013/A exceeds 500m. The monitoring station is not applicable to ND/2019/05
7. Since the distance between monitoring station CP-FLN-NMS2 and site boundary of ND/2019/03 and ND/2019/04 under EP-473/2013/A exceeds 300m. The monitoring station is not applicable to ND/2019/03 and ND/2019/04.
8. Since the distance between monitoring station CP-FLN-NMS1 and site boundary of ND/2019/03 under EP-473/2013/A exceeds 300m. The monitoring station is not applicable to ND/2019/03.

Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Tentative Impact Water Quality Monitoring Schedule (May 2025)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1-May	2-May	3-May
					Water Quality Monitoring River Beas, River Indus and near Siu Hang San Tsuen Stream	
4-May	**5-May**	6-May	7-May	8-May	9-May	10-May
		Water Quality Monitoring River Beas, River Indus and near Siu Hang San Tsuen Stream		**Water Quality Monitoring** River Beas, River Indus and near Siu Hang San Tsuen Stream		**Water Quality Monitoring** River Beas, River Indus and near Siu Hang San Tsuen Stream
11-May	12-May	13-May	14-May	15-May	16-May	17-May
	Water Quality Monitoring River Beas, River Indus and near Siu Hang San Tsuen Stream		**Water Quality Monitoring** River Beas, River Indus and near Siu Hang San Tsuen Stream		**Water Quality Monitoring** River Beas, River Indus and near Siu Hang San Tsuen Stream	
18-May	19-May	20-May	21-May	22-May	23-May	24-May
	Water Quality Monitoring River Beas, River Indus and near Siu Hang San Tsuen Stream		**Water Quality Monitoring** River Beas, River Indus and near Siu Hang San Tsuen Stream		**Water Quality Monitoring** River Beas, River Indus and near Siu Hang San Tsuen Stream	
25-May	26-May	27-May	28-May	29-May	30-May	**31-May**
	Water Quality Monitoring River Beas, River Indus and near Siu Hang San Tsuen Stream		**Water Quality Monitoring** River Beas, River Indus and near Siu Hang San Tsuen Stream		**Water Quality Monitoring** River Beas, River Indus and near Siu Hang San Tsuen Stream	

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

Water Quality Monitoring Stations
River Beas: SYR-CS1 - Upstream of river, SYR-IS1 - Downstream of river
River Indus and near Siu Hang San Tsuen Stream: NTR-CS1 - Upstream of river, NTR-IS1 - Downstream of river, SHST-IS2 - Water sensitive receiver at near Siu Hang San Tsuen Stream, MWR-IS3 - Water sensitive receiver at near Ma Wat River

Environmental Permit(s)	Contract No.	Water Quality Stations
EP-469/2013	ND/2019/02	**River Beas** SYR-CS1 - Upstream of river SYR-IS1 - Downstream of river
EP-473/2013/A	ND/2019/04	**River Indus and near Siu Hang San Tsuen Stream** NTR-CS1 - Upstream of river NTR-IS1 - Downstream of river SHST-IS2 - Water sensitive receiver at near Siu Hang San Tsuen Stream MWR-IS3 - Water sensitive receiver at near Ma Wat River

Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Tentative Impact Ecological Monitoring Schedule (May 2025)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1-May	2-May	3-May
4-May	**5-May**	6-May	7-May	8-May	9-May	10-May
				Monitoring of Measures to Minimise Disturbance to Water Birds in Ng Tung River **T1 T2** High tide: Start time: 9:00 Low tide: Start time: 12:00	Monitoring of Measures to Minimise Disturbance to Water Birds in Sheung Yue River and Long Valley **T3 T5** High tide: Start time: 9:00 Low tide: Start time: 13:00	
11-May	12-May	13-May	14-May	15-May	16-May	17-May
	Monitoring of Measures to Minimise Disturbance to Water Birds in Sheung Yue River and Long Valley **T3 T5** High tide: Start time: 10:00 Low tide: Start time: 14:00	Monitoring of Measures to Minimise Impacts on Ecological Sensitive Habitats from Disturbance and Pollution **T1, T6**		Monitoring of Measures to Minimise Impacts to Ma Tso Lung and Siu Hang San Tsuen Stream **MS_01 - MS_15**	Monitoring of Measures to Minimise Disturbance to Water Birds in Ng Tung River **T1 T2** High tide: Start time: 13:00 Low tide: Start time: 16:00	
18-May	19-May	20-May	21-May	22-May	23-May	24-May
		Monitoring of Measures to Minimise Impacts on Ecological Sensitive Habitats from Disturbance and Pollution **T3, T4, T5**		Monitoring of Measures to Minimise Disturbance to Water Birds in Ng Tung River **T1 T2** High tide: Start time: 8:00 Low tide: Start time: 11:00	Monitoring of Measures to Minimise Disturbance to Water Birds in Sheung Yue River and Long Valley **T3 T5** High tide: Start time: 8:00 Low tide: Start time: 13:00	
25-May	26-May	27-May	28-May	29-May	30-May	**31-May**
	Monitoring of Measures to Minimise Disturbance to Water Birds in Ng Tung River **T1 T2** High tide: Start time: 10:00 Low tide: Start time: 14:00	Monitoring of Measures to Minimise Disturbance to Water Birds in Sheung Yue River and Long Valley **T3 T5** High tide: Start time: 10:00 Low tide: Start time: 14:00				

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

Item	Activity	Monitoring Stations/Transects
1	Monitoring of Measures to Minimise Disturbance to Water Birds in Ng Tung River, Sheung Yue River, and Long Valley	T1. Ng Tung River T2. Ng Tung River T3. Sheung Yue River T5. Long Valley
2	Monitoring of Measures to Minimise Impacts to Aquatic Fauna in Ma Tso Lung Stream and Siu Hang San Tsuen Stream	MS_01, MS_02, MS_03, MS_04, MS_05, MS_06, MS_07, MS_08, MS_09, MS_10, MS_11, MS_12, MS_13, MS_14, MS_15
3	Monitoring of Measures to Minimise Impacts on Ecological Sensitive Habitats from Disturbance and Pollution	T1. Ma Tso Lung riparian zone and associated wetland habitats
		T1. Green belt areas E1-8,D1-8 and G1-3 in KTN NDA
		T1. AGR one C2-4 and C2-2 in KTN NDA
		T1. Areas north of Ng Tung River
		T3. Area west of Siu Hang San Tsuen Stream
		T4. South side of Fanling Highway and Castle Peak Road in the vicinity of Pak Shek Au
		T5. Area west and east of the southern limit of the FLN NDA work area
		T6. Areas in the western part of KTN

Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Tentative Weekly Site Inspection Schedule for May 2025

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1-May	2-May	3-May
4-May	**5-May**	6-May	7-May	8-May	9-May	10-May
		Site Inspection (ND/2019/05) Site Inspection (ND/2019/07)		Site Inspection (ND/2019/04)	Site Inspection (ND/2019/01) Site Inspection (ND/2019/02)	
11-May	12-May	13-May	14-May	15-May	16-May	17-May
	Site Inspection (ND/2019/05) Site Inspection (ND/2019/07)		Site Inspection (ND/2019/02)	Site Inspection (ND/2019/04) Site Inspection (ND/2019/01)		
18-May	19-May	20-May	21-May	22-May	23-May	24-May
	Site Inspection (ND/2019/05) Site Inspection (ND/2019/07)	Site Inspection (ND/2019/01)	Site Inspection (ND/2019/02)	Site Inspection (ND/2019/04)		
25-May	26-May	27-May	28-May	29-May	30-May	**31-May**
	Site Inspection (ND/2019/05) Site Inspection (ND/2019/07)	Site Inspection (ND/2019/01)	Site Inspection (ND/2019/02)	Site Inspection (ND/2019/04)		

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

APPENDIX E
AIR QUALITY AND AMBIENT ARSENIC MONITORING RESULTS AND GRAPHICAL PRESENTATION

Appendix E - 1-hour TSP Monitoring Results

Location FLN-DMS1 - Scattered Village Houses North of Proposed Potential Ecopark			
Date	Time	Weather	Particulate Concentration (μg/m^3)
3-Apr-25	8:00	Sunny	75.0
3-Apr-25	9:00	Sunny	77.8
3-Apr-25	10:00	Sunny	76.8
8-Apr-25	13:00	Sunny	70.7
8-Apr-25	14:00	Sunny	74.1
8-Apr-25	15:00	Sunny	75.5
14-Apr-25	9:00	Sunny	298.6
14-Apr-25	10:00	Sunny	296.0
14-Apr-25	11:00	Sunny	276.3
17-Apr-25	13:00	Sunny	69.8
17-Apr-25	14:00	Sunny	79.3
17-Apr-25	15:00	Sunny	67.1
23-Apr-25	9:00	Sunny	71.2
23-Apr-25	10:00	Sunny	75.0
23-Apr-25	11:00	Sunny	63.7
29-Apr-25	9:00	Sunny	41.9
29-Apr-25	10:00	Sunny	57.9
29-Apr-25	11:00	Sunny	64.9
		Minimum	41.9
		Maximum	298.6
		Average	106.2

Location FLN-DMS3 - House near Tong Hang			
Date	Time	Weather	Particulate Concentration (μg/m^3)
3-Apr-25	13:00	Sunny	94.7
3-Apr-25	14:00	Sunny	83.8
3-Apr-25	15:00	Sunny	81.2
8-Apr-25	14:30	Sunny	55.5
8-Apr-25	15:30	Sunny	57.7
8-Apr-25	16:30	Sunny	65.8
14-Apr-25	9:00	Sunny	278.7
14-Apr-25	10:00	Sunny	285.8
14-Apr-25	11:00	Sunny	276.9
17-Apr-25	9:00	Sunny	47.4
17-Apr-25	10:00	Sunny	51.9
17-Apr-25	11:00	Sunny	52.5
23-Apr-25	9:00	Sunny	42.0
23-Apr-25	10:00	Sunny	46.5
23-Apr-25	11:00	Sunny	47.1
29-Apr-25	9:00	Sunny	33.7
29-Apr-25	10:00	Sunny	34.5
29-Apr-25	11:00	Sunny	43.2
		Minimum	33.7
		Maximum	285.8
		Average	93.3

Appendix E - 1-hour TSP Monitoring Results

Location FLN-DMS5 - Noble Hill			
Date	Time	Weather	Particulate Concentration (μg/m^3)
2-Apr-25	9:00	Sunny	37.0
2-Apr-25	10:00	Sunny	48.5
2-Apr-25	11:00	Sunny	45.3
7-Apr-25	9:00	Sunny	93.5
7-Apr-25	10:00	Sunny	99.2
7-Apr-25	11:00	Sunny	101.5
11-Apr-25	13:00	Sunny	75.6
11-Apr-25	14:00	Sunny	58.1
11-Apr-25	15:00	Sunny	57.3
16-Apr-25	9:00	Sunny	89.6
16-Apr-25	10:00	Sunny	106.2
16-Apr-25	11:00	Sunny	108.9
22-Apr-25	9:00	Sunny	40.9
22-Apr-25	10:00	Sunny	44.5
22-Apr-25	11:00	Sunny	35.7
28-Apr-25	9:00	Sunny	55.5
28-Apr-25	10:00	Sunny	59.9
28-Apr-25	11:00	Sunny	62.8
		Minimum	35.7
		Maximum	108.9
		Average	67.8

Location KTN-DMS4(B) - Temporary Structure at Pak Shek Au			
Date	Time	Weather	Particulate Concentration (μg/m^3)
2-Apr-25	13:00	Sunny	66.9
2-Apr-25	14:00	Sunny	70.8
2-Apr-25	15:00	Sunny	96.1
7-Apr-25	13:00	Sunny	88.9
7-Apr-25	14:00	Sunny	72.1
7-Apr-25	15:00	Sunny	67.4
11-Apr-25	13:00	Sunny	83.5
11-Apr-25	14:00	Sunny	77.8
11-Apr-25	15:00	Sunny	67.7
16-Apr-25	9:00	Sunny	103.9
16-Apr-25	10:00	Sunny	120.0
16-Apr-25	11:00	Sunny	140.1
22-Apr-25	9:00	Sunny	48.3
22-Apr-25	10:00	Sunny	55.2
22-Apr-25	11:00	Sunny	50.1
28-Apr-25	13:00	Sunny	66.0
28-Apr-25	14:00	Sunny	53.8
28-Apr-25	15:00	Sunny	59.4
		Minimum	48.3
		Maximum	140.1
		Average	77.1

Appendix E - 24-hour TSP Monitoring Results

Location FLN-DMS1 - Scattered Village Houses North of Proposed Potential Ecopark

Start Date	Weather Condition	Air Temp. (K)	Filter Weight (g)		Particulate weight (g)	Elapse Time		Sampling Time(hrs.)	Flow Rate (m^3/min.)		Av. flow (m^3/min)	Total vol. (m^3)	Conc. ($\mu g/m^3$)
			Initial	Final		Initial	Final		Initial	Final			
2-Apr-25	Sunny	287.5	4.3540	4.4182	0.0642	10853.9	10877.9	24.0	1.25	1.24	1.25	1795.3	35.8
7-Apr-25	Sunny	291.4	4.3102	4.4559	0.1457	10877.9	10901.9	24.0	1.24	1.23	1.24	1779.5	81.9
11-Apr-25	Sunny	297.3	4.3183	4.3719	0.0536	10901.9	10925.9	24.0	1.22	1.21	1.22	1750.8	30.6
16-Apr-25	Sunny	295.2	4.4181	4.5664	0.1483	10925.9	10949.9	24.0	1.22	1.22	1.22	1761.3	84.2
22-Apr-25	Sunny	299.6	4.3512	4.4118	0.0606	10949.9	10973.9	24.0	1.21	1.21	1.21	1745.1	34.7
28-Apr-25	Sunny	296.9	3.3647	3.4357	0.0710	10973.9	10997.9	24.0	1.22	1.22	1.22	1755.6	40.4
												Min	30.6
												Max	84.2
												Average	51.3

Location FLN-DMS3 - House near Tong Hang

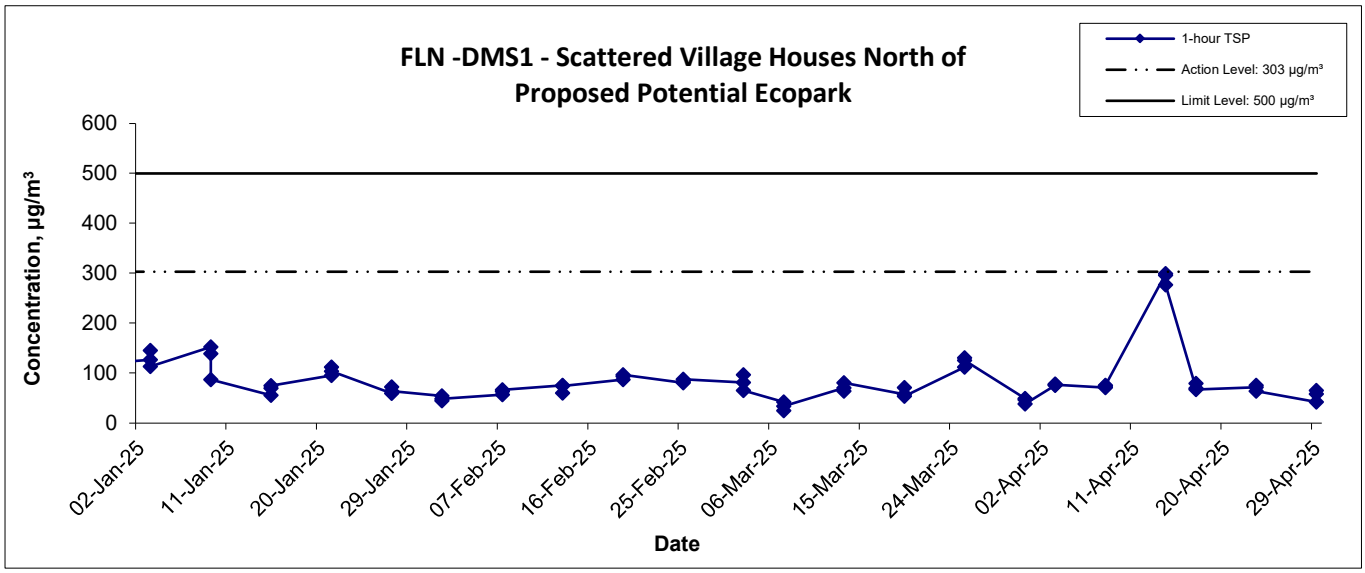
Start Date	Weather Condition	Air Temp. (K)	Filter Weight (g)		Particulate weight (g)	Elapse Time		Sampling Time(hrs.)	Flow Rate (m^3/min.)		Av. flow (m^3/min)	Total vol. (m^3)	Conc. ($\mu g/m^3$)
			Initial	Final		Initial	Final		Initial	Final			
2-Apr-25	Sunny	287.5	4.3410	4.3888	0.0478	12078.0	12102.0	24.0	1.25	1.24	1.25	1793.2	26.7
7-Apr-25	Sunny	291.4	4.3032	4.3912	0.0880	12102.0	12126.0	24.0	1.24	1.23	1.23	1778.3	49.5
11-Apr-25	Sunny	297.3	4.2912	4.3524	0.0612	12126.0	12150.0	24.0	1.22	1.21	1.22	1751.4	34.9
16-Apr-25	Sunny	295.2	4.4221	4.5259	0.1038	12150.0	12174.0	24.0	1.22	1.22	1.22	1761.3	58.9
22-Apr-25	Sunny	299.6	4.3293	4.3879	0.0586	12174.0	12198.0	24.0	1.21	1.21	1.21	1746.1	33.6
28-Apr-25	Sunny	296.9	3.3013	3.3589	0.0576	12198.0	12222.0	24.0	1.22	1.22	1.22	1756.0	32.8
												Min	26.7
												Max	58.9
												Average	39.4

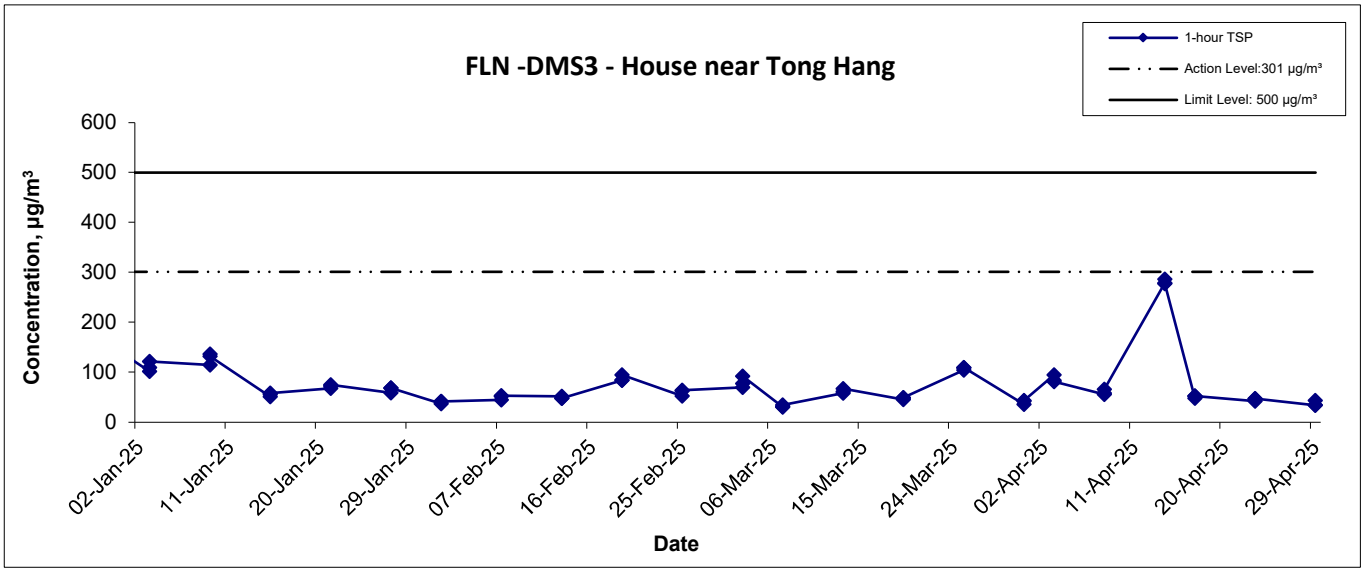
Appendix E - 24-hour TSP Monitoring Results

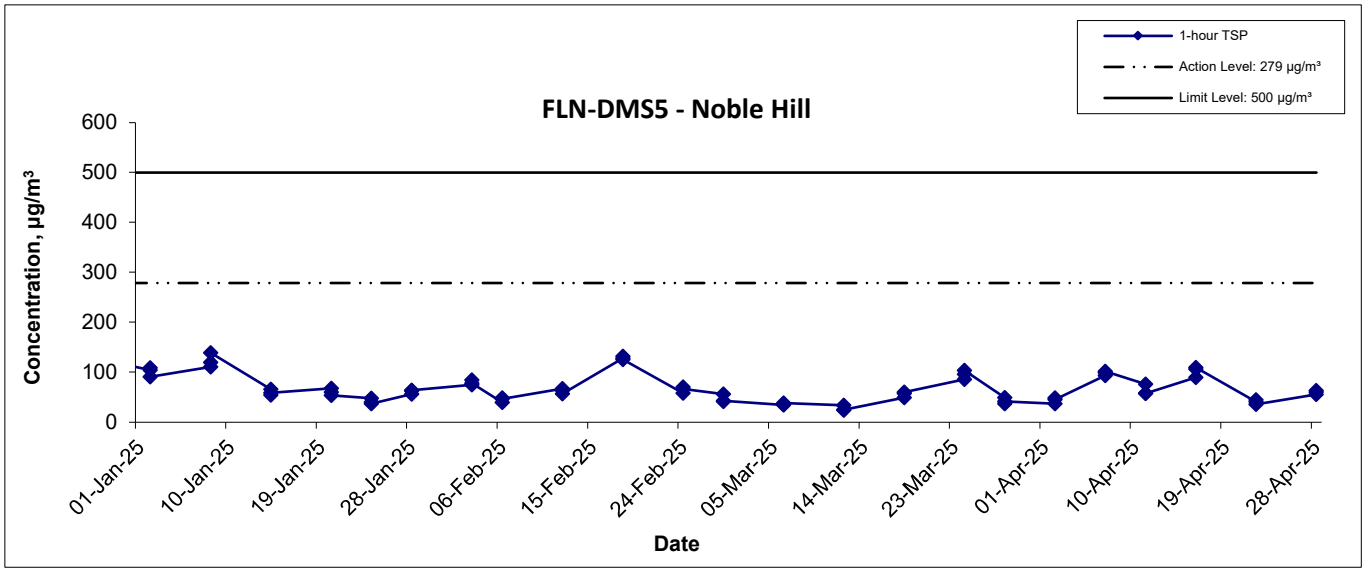
Location FLN-DMS5A - Good View New Village			
Date	Time	Weather	Particulate Concentration (μg/m^3)
2-Apr-25	9:00	Sunny	40.2
7-Apr-25	9:00	Sunny	75.6
11-Apr-25	9:00	Sunny	43.8
16-Apr-25	9:00	Sunny	114.2
22-Apr-25	9:00	Sunny	34.3
28-Apr-25	9:30	Sunny	61.1
		Minimum	34.3
		Maximum	114.2
		Average	61.5

Location KTN-DMS4(B) - Temporary Structure at Pak Shek Au			
Date	Time	Weather	Particulate Concentration (μg/m^3)
2-Apr-25	9:45	Sunny	49.1
7-Apr-25	9:00	Sunny	64.2
11-Apr-25	9:00	Sunny	54.2
16-Apr-25	9:00	Sunny	128.2
22-Apr-25	9:00	Sunny	64.1
28-Apr-25	9:00	Sunny	52.5
		Minimum	49.1
		Maximum	128.2
		Average	68.7

1-hr TSP Concentration Levels

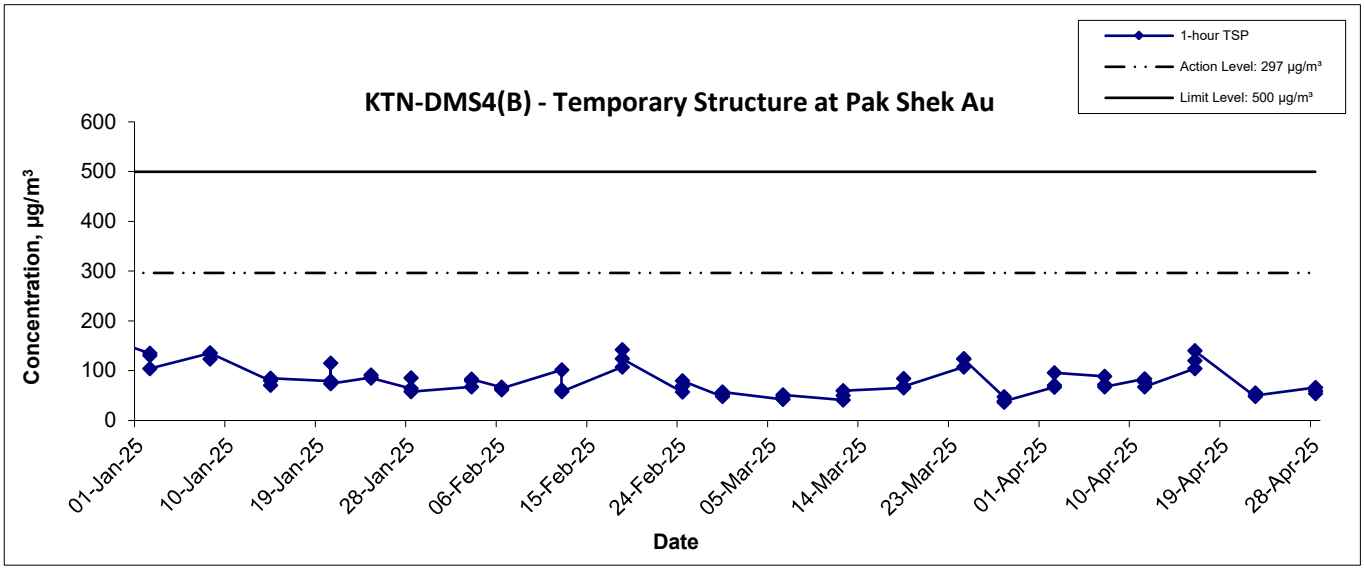






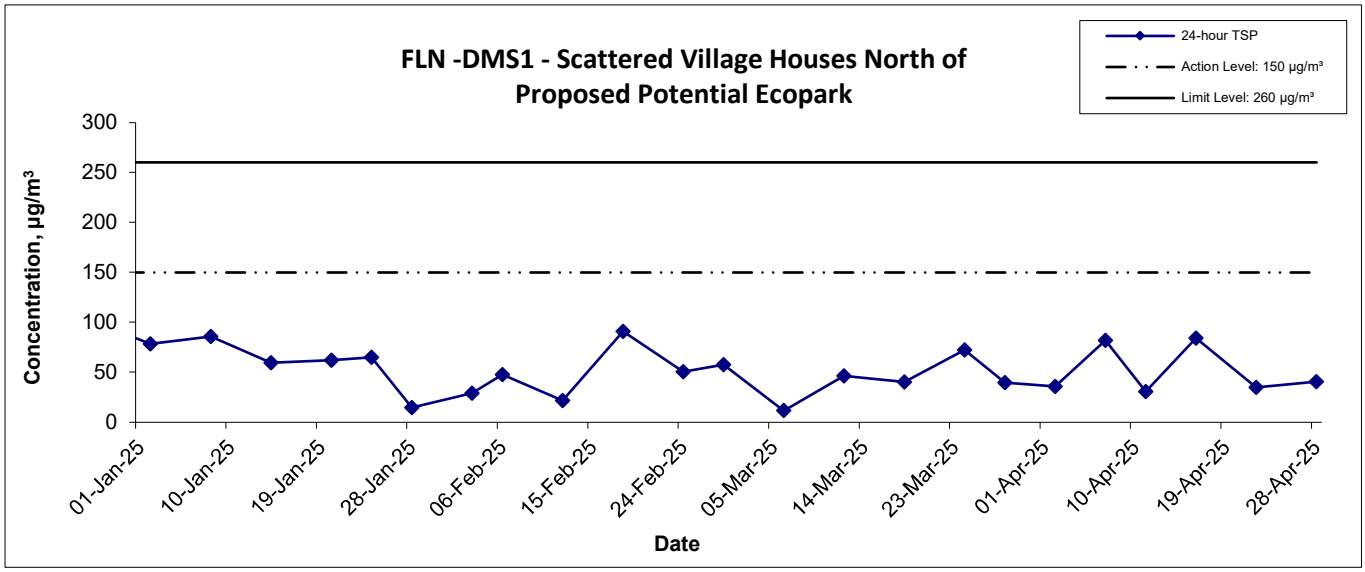
Title	Scale	Project No.	
Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas Graphical Presentation of 1-hour TSP Monitoring Results	N.T.S	WMA20002	WELLAB 匯力 consulting . testing . research
	Date Apr 25	Appendix E	

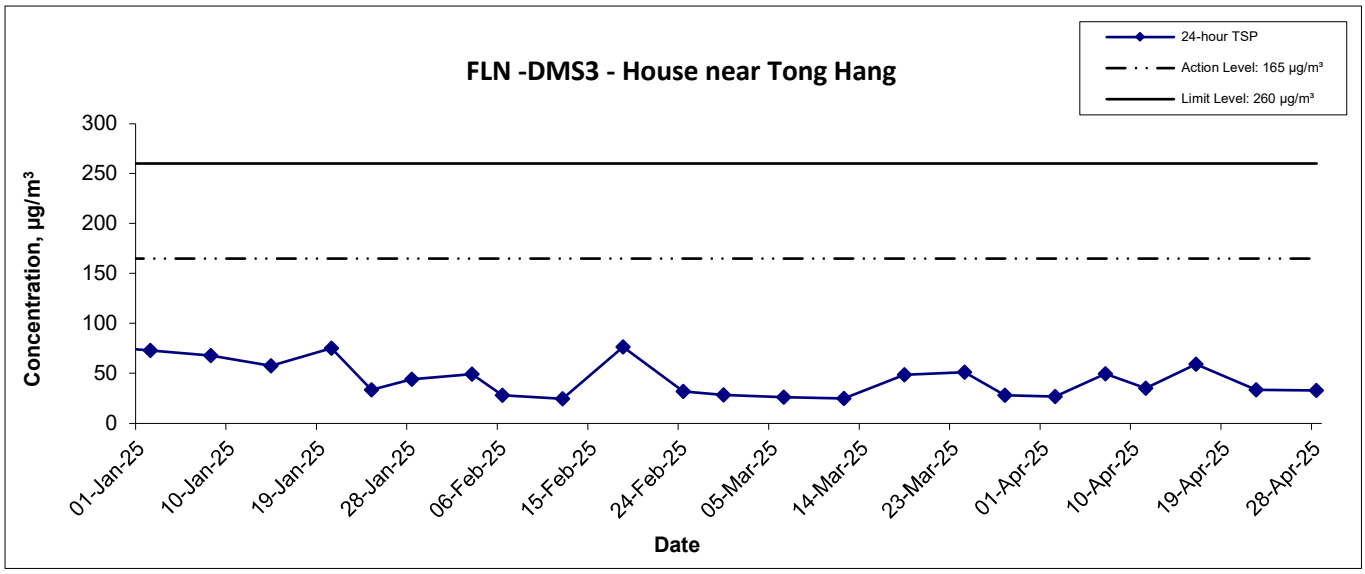
1-hr TSP Concentration Levels

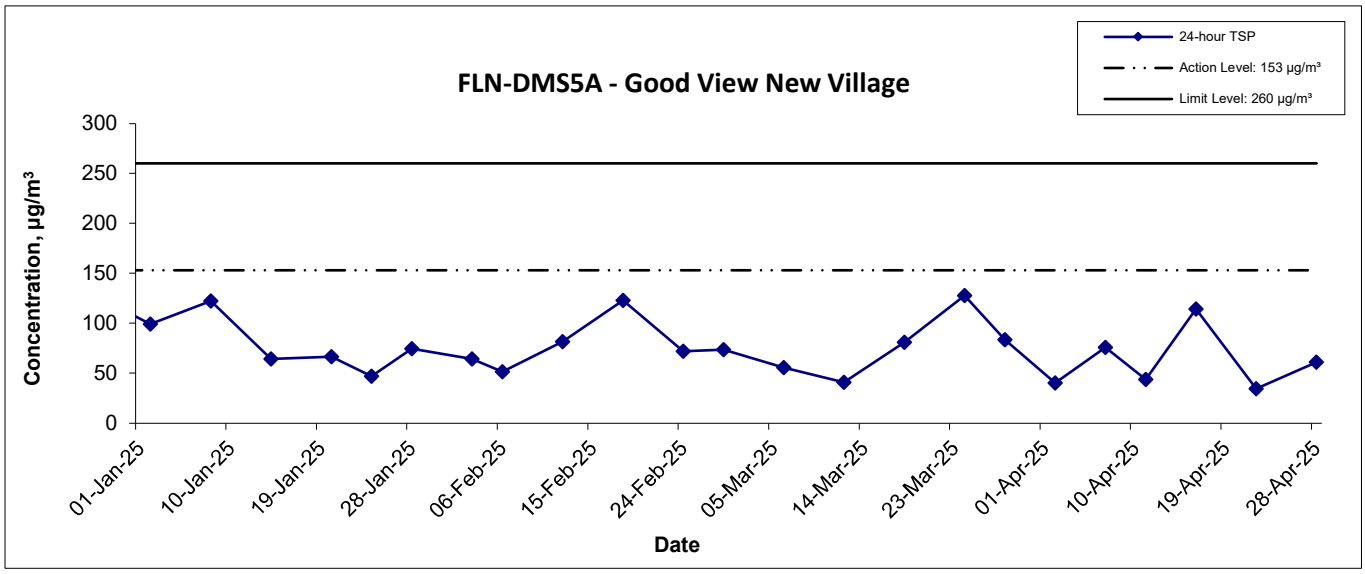


Title	Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas Graphical Presentation of 1-hour TSP Monitoring Results	Scale N.T.S	Project No. WMA20002	WELLAB 匯力 consulting . testing . research
		Date Apr 25	Appendix E	

24-hr TSP Concentration Levels

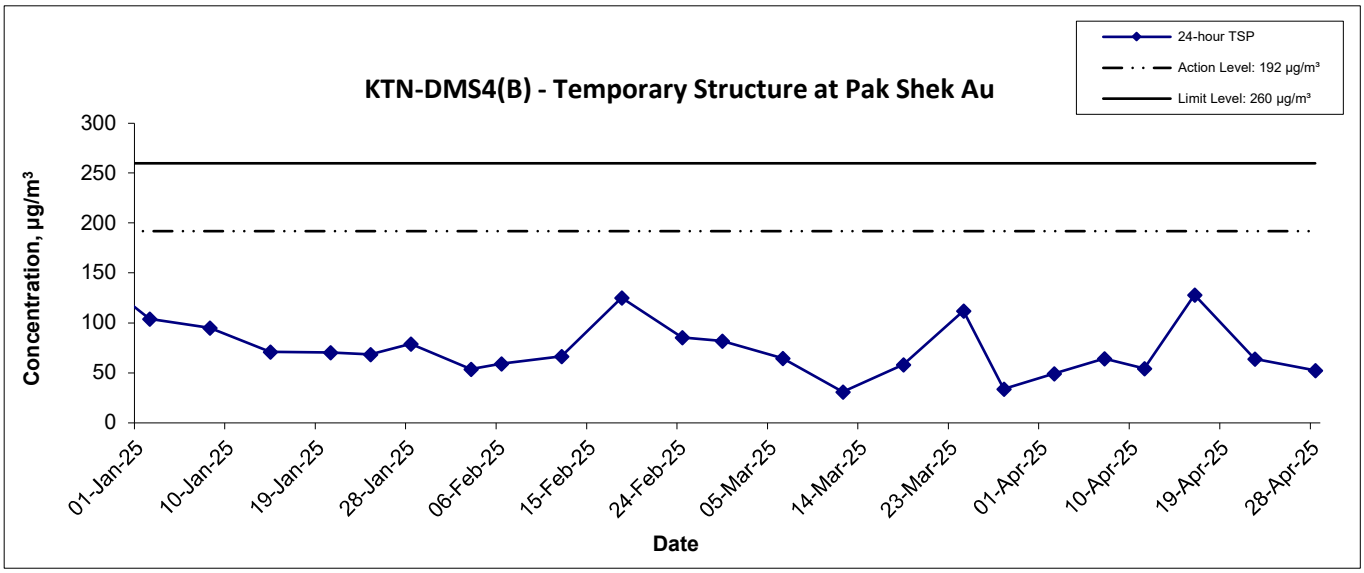






Title	Scale	Project No.	
Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas Graphical Presentation of 24-hour TSP Monitoring Results	N.T.S	WMA20002	WELLAB 匯力 consulting . testing . research
	Date Apr 25	Appendix E	

24-hr TSP Concentration Levels

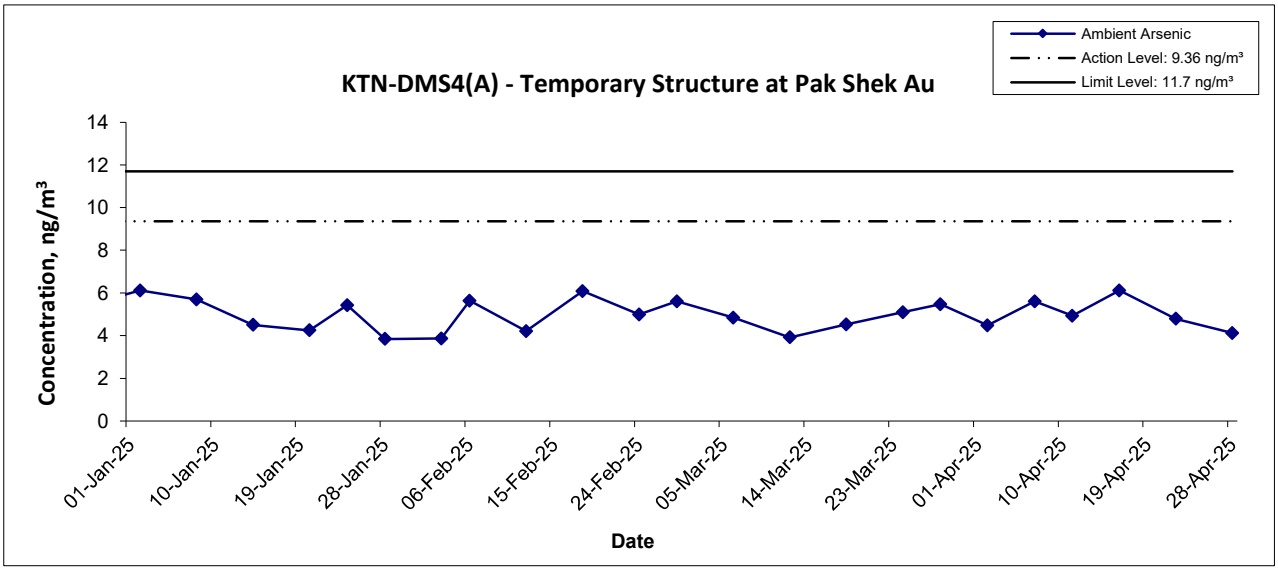


Title	Scale	Project No.	
Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas Graphical Presentation of 24-hour TSP Monitoring Results	N.T.S	WMA20002	WELLAB 匯力 consulting . testing . research
	Date Apr 25	Appendix E	

Appendix E - Ambient Arsenic Monitoring Results

Location KTN-DMS4(A) - Temporary Structure at Pak Shek Au			
Date	Arsenic (µg)	Standard Volume, Vstd (m^3)	Ambient Arsenic Concentration (ng/m^3)
2-Apr-25	6.9	1539.2	4.48
7-Apr-25	8.7	1553.7	5.60
11-Apr-25	7.8	1581.2	4.93
16-Apr-25	9.6	1571.1	6.11
22-Apr-25	7.6	1586.4	4.79
28-Apr-25	6.5	1576.3	4.12

Ambient Arsenic



Title	Scale	Project No.	
Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas Graphical Presentation of Ambient Arsenic Monitoring Results	N.T.S	WMA20002	WELLAB 匯力 consulting . testing . research
	Date Apr 25	Appendix E	

Table I - Ambient Arsenic Concentration on 2nd April 2025

Parameter	Monitoring Station	Arsenic (Refer to Report No.: 42080)	Standard Volume, Vstd = $Qstd_{avg}$ x Total Time (Refer to the 24-hr RSP Field Operation Data Log Sheet)	Ambient Arsenic Concentration	Exceedance (Refer to Table II for Action and Limit Level)
Ambient Arsenic Concentration, ng/m^3	KTN-DMS4(A) - Temporary Structure at Pak Shek Au	6.9 µg	1539.2 m^3	4.48 ng/m^3	No

Table II – Action and Limit Levels for Ambient Arsenic Monitoring

Parameters	Action Level	Limit Level
Ambient Arsenic Concentration	9.36 ng/m^3 80% of 11.7ng/m^3 –the highest ambient concentration predicted during the construction phase with mitigation measures implemented	11.7 ng/m^3 - the highest ambient arsenic concentration predicted during the construction phase with mitigation measures implemented

	Name	Signature	Date
Prepared by:	Meiling Tang		12th May 2025
Checked by:	Marco Ma		12th May 2025

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Website: http://www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab (EM&A)**
RM 1808, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

Report No.:	42080
Date of Issue:	2025-04-11
Date Received:	2025-04-03
Date Tested:	2025-04-03
Date Completed:	2025-04-11

ATTN: **Ms Ivy Tam**

Page: 1 of 1

Sample Description : 1 sample as received from customer said to be quartz filter
Laboratory No. : 42080
Project No. : WMA 20002
Project Title: Service Contract No. NDO 04/2019
Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Arsenic	In-house method SOP036 (ICP-MS)	0.18 μg

Results:

Sample ID	250201/057
Sample No.	42080-1
Arsenic (μg)	6.9

Remarks: 1) < = less than
2) Results for the test material reported as received

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

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TEST REPORT

APPLICANT: **Wellab (EM&A)**
RM 1808, Technology Park,
18 On Lai Street,
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Report No.:	QC42080
Date of Issue:	2025-04-11
Date Received:	2025-04-03
Date Tested:	2025-04-03
Date Completed:	2025-04-11

ATTN: **Ms Ivy Tam**

QC report:

Method Blank

Parameter	Method Blank	Acceptance
Arsenic (μg)	<0.036	<0.036

Filter Lot Blank

Parameter	Filter Lot Blank	Acceptance
Arsenic (μg)	0.06	N/A

Laboratory control spike/ Method QC

Parameter	MQC	Acceptance
Arsenic (%)	99	80-120

Calibration check

Parameter	CCV	Acceptance
Arsenic (%)	102	90-110

Interference check solution A

Parameter	ICS A	Acceptance
Arsenic (μg)	<0.036	<0.036

Interference check solution AB

Parameter	ICS AB	Acceptance
Arsenic (%)	97	70-130

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 42080

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General Manager

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TEST REPORT

Report No.:	QC42080
Date of Issue:	2025-04-11
Date Received:	2025-04-03
Date Tested:	2025-04-03
Date Completed:	2025-04-11

QC report:

Matrix Spike

Parameter	Matrix Spike	Acceptance
Arsenic (%)	92	75-125

Filter Duplicate

Parameter	Filter Duplicate	Acceptance
Arsenic (%)	7	RPD≤20%

Serial dilution check

Parameter	Serial dilution check	Acceptance
Arsenic (%)	102	90-110

Remarks: 1) <= less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 42080

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Table I - Ambient Arsenic Concentration on 7th April 2025

Parameter	Monitoring Station	Arsenic (Refer to Report No.: 42097)	Standard Volume, Vstd = $Qstd_{avg}$ x Total Time (Refer to the 24-hr RSP Field Operation Data Log Sheet)	Ambient Arsenic Concentration	Exceedance (Refer to Table II for Action and Limit Level)
Ambient Arsenic Concentration, ng/m^3	KTN-DMS4(A) - Temporary Structure at Pak Shek Au	8.7 µg	1553.7 m^3	5.60 ng/m^3	No

Table II – Action and Limit Levels for Ambient Arsenic Monitoring

Parameters	Action Level	Limit Level
Ambient Arsenic Concentration	9.36 ng/m^3 80% of 11.7ng/m^3 –the highest ambient concentration predicted during the construction phase with mitigation measures implemented	11.7 ng/m^3 - the highest ambient arsenic concentration predicted during the construction phase with mitigation measures implemented

	Name	Signature	Date
Prepared by:	Meiling Tang	Meiling	12th May 2025
Checked by:	Marco Ma		12th May 2025

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TEST REPORT

APPLICANT: **Wellab (EM&A)**
RM 1808, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

Report No.:	42097
Date of Issue:	2025-04-16
Date Received:	2025-04-09
Date Tested:	2025-04-09
Date Completed:	2025-04-16
Page:	1 of 1

ATTN: **Ms Ivy Tam**

Sample Description : 1 sample as received from customer said to be quartz filter
Laboratory No. : 42097
Project No. : WMA 20002
Project Title: Service Contract No. NDO 04/2019
Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Arsenic	In-house method SOP036 (ICP-MS)	0.18 µg

Results:

Sample ID	250201/038
Sample No.	42097-1
Arsenic (µg)	8.7

Remarks: 1) < = less than
2) Results for the test material reported as received

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PATRICK TSE
General Manager

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TEST REPORT

APPLICANT: **Wellab (EM&A)**
RM 1808, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

Report No.:	QC42097
Date of Issue:	2025-04-16
Date Received:	2025-04-09
Date Tested:	2025-04-09
Date Completed:	2025-04-16

ATTN: **Ms Ivy Tam**

Page: 1 of 2

QC report:

Method Blank

Parameter	Method Blank	Acceptance
Arsenic (μg)	<0.036	<0.036

Filter Lot Blank

Parameter	Filter Lot Blank	Acceptance
Arsenic (μg)	0.06	N/A

Laboratory control spike/ Method QC

Parameter	MQC	Acceptance
Arsenic (%)	96	80-120

Calibration check

Parameter	CCV	Acceptance
Arsenic (%)	100	90-110

Interference check solution A

Parameter	ICS A	Acceptance
Arsenic (μg)	<0.036	<0.036

Interference check solution AB

Parameter	ICS AB	Acceptance
Arsenic (%)	96	70-130

Remarks: 1) <= less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 42097

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TEST REPORT

Report No.:	QC42097
Date of Issue:	2025-04-16
Date Received:	2025-04-09
Date Tested:	2025-04-09
Date Completed:	2025-04-16

QC report:

Matrix Spike

Parameter	Matrix Spike	Acceptance
Arsenic (%)	88	75-125

Filter Duplicate

Parameter	Filter Duplicate	Acceptance
Arsenic (%)	2	RPD≤20%

Serial dilution check

Parameter	Serial dilution check	Acceptance
Arsenic (%)	96	90-110

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 42097

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Table I - Ambient Arsenic Concentration on 11th April 2025

Parameter	Monitoring Station	Arsenic (Refer to Report No.: 42161)	Standard Volume, Vstd = $Qstd_{avg}$ x Total Time (Refer to the 24-hr RSP Field Operation Data Log Sheet)	Ambient Arsenic Concentration	Exceedance (Refer to Table II for Action and Limit Level)
Ambient Arsenic Concentration, ng/m^3	KTN-DMS4(A) - Temporary Structure at Pak Shek Au	7.8 µg	1581.2 m^3	4.93 ng/m^3	No

Table II – Action and Limit Levels for Ambient Arsenic Monitoring

Parameters	Action Level	Limit Level
Ambient Arsenic Concentration	9.36 ng/m^3 80% of 11.7ng/m^3 –the highest ambient concentration predicted during the construction phase with mitigation measures implemented	11.7 ng/m^3 - the highest ambient arsenic concentration predicted during the construction phase with mitigation measures implemented

	Name	Signature	Date
Prepared by:	Meiling Tang	Mei'L	12th May 2025
Checked by:	Marco Ma		12th May 2025

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TEST REPORT

APPLICANT: **Wellab (EM&A)**
RM 1808, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

Report No.:	42161
Date of Issue:	2025-04-20
Date Received:	2025-04-14
Date Tested:	2025-04-14
Date Completed:	2025-04-20

ATTN: **Ms Ivy Tam**

Page: 1 of 1

Sample Description : 1 sample as received from customer said to be quartz filter
Laboratory No. : 42161
Project No. : WMA 20002
Project Title: Service Contract No. NDO 04/2019
Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Arsenic	In-house method SOP036 (ICP-MS)	0.18 µg

Results:

Sample ID	250201/061
Sample No.	42161-1
Arsenic (µg)	7.8

Remarks: 1) < = less than
2) Results for the test material reported as received

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PATRICK TSE
General Manager

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TEST REPORT

APPLICANT: **Wellab (EM&A)**
RM 1808, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

Report No.:	QC42161
Date of Issue:	2025-04-20
Date Received:	2025-04-14
Date Tested:	2025-04-14
Date Completed:	2025-04-20

ATTN: **Ms Ivy Tam**

QC report:

Method Blank

Parameter	Method Blank	Acceptance
Arsenic (μg)	<0.036	<0.036

Filter Lot Blank

Parameter	Filter Lot Blank	Acceptance
Arsenic (μg)	0.06	N/A

Laboratory control spike/ Method QC

Parameter	MQC	Acceptance
Arsenic (%)	96	80-120

Calibration check

Parameter	CCV	Acceptance
Arsenic (%)	103	90-110

Interference check solution A

Parameter	ICS A	Acceptance
Arsenic (μg)	<0.036	<0.036

Interference check solution AB

Parameter	ICS AB	Acceptance
Arsenic (%)	94	70-130

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 42161

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General Manager

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TEST REPORT

Report No.:	QC42161
Date of Issue:	2025-04-20
Date Received:	2025-04-14
Date Tested:	2025-04-14
Date Completed:	2025-04-20

QC report:

Matrix Spike

Parameter	Matrix Spike	Acceptance
Arsenic (%)	90	75-125

Filter Duplicate

Parameter	Filter Duplicate	Acceptance
Arsenic (%)	2	RPD≤20%

Serial dilution check

Parameter	Serial dilution check	Acceptance
Arsenic (%)	102	90-110

Remarks: 1) <= less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 42161

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Table I - Ambient Arsenic Concentration on 16th April 2025

Parameter	Monitoring Station	Arsenic (Refer to Report No.: 42133)	Standard Volume, Vstd = $Qstd_{avg}$ x Total Time (Refer to the 24-hr RSP Field Operation Data Log Sheet)	Ambient Arsenic Concentration	Exceedance (Refer to Table II for Action and Limit Level)
Ambient Arsenic Concentration, ng/m^3	KTN-DMS4(A) - Temporary Structure at Pak Shek Au	9.6 µg	1571.1 m^3	6.11 ng/m^3	No

Table II – Action and Limit Levels for Ambient Arsenic Monitoring

Parameters	Action Level	Limit Level
Ambient Arsenic Concentration	9.36 ng/m^3 80% of 11.7ng/m^3 –the highest ambient concentration predicted during the construction phase with mitigation measures implemented	11.7 ng/m^3 - the highest ambient arsenic concentration predicted during the construction phase with mitigation measures implemented

	Name	Signature	Date
Prepared by:	Meiling Tang	Mei-Ling	12th May 2025
Checked by:	Marco Ma		12th May 2025

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TEST REPORT

APPLICANT: **Wellab (EM&A)**
RM 1808, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

Report No.:	42133
Date of Issue:	2025-04-25
Date Received:	2025-04-17
Date Tested:	2025-04-17
Date Completed:	2025-04-25

ATTN: **Ms Ivy Tam**

Page: 1 of 1

Sample Description : 1 sample as received from customer said to be quartz filter
Laboratory No. : 42133
Project No. : WMA 20002
Project Title: Service Contract No. NDO 04/2019
Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Arsenic	In-house method SOP036 (ICP-MS)	0.18 μg

Results:

Sample ID	241001/086
Sample No.	42133-1
Arsenic (μg)	9.6

Remarks: 1) < = less than
2) Results for the test material reported as received

**********END OF REPORT**********

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PATRICK TSE
General Manager

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TEST REPORT

APPLICANT: **Wellab (EM&A)**
RM 1808, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

Report No.:	QC42133
Date of Issue:	2025-04-25
Date Received:	2025-04-17
Date Tested:	2025-04-17
Date Completed:	2025-04-25

ATTN: **Ms Ivy Tam**

QC report:

Method Blank

Parameter	Method Blank	Acceptance
Arsenic (μg)	<0.036	<0.036

Filter Lot Blank

Parameter	Filter Lot Blank	Acceptance
Arsenic (μg)	0.06	N/A

Laboratory control spike/ Method QC

Parameter	MQC	Acceptance
Arsenic (%)	99	80-120

Calibration check

Parameter	CCV	Acceptance
Arsenic (%)	95	90-110

Interference check solution A

Parameter	ICS A	Acceptance
Arsenic (μg)	<0.036	<0.036

Interference check solution AB

Parameter	ICS AB	Acceptance
Arsenic (%)	103	70-130

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 42133

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General Manager

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Website: http://www.wellab.com.hk

TEST REPORT

Report No.:	QC42133
Date of Issue:	2025-04-25
Date Received:	2025-04-17
Date Tested:	2025-04-17
Date Completed:	2025-04-25

QC report:

Matrix Spike

Parameter	Matrix Spike	Acceptance
Arsenic (%)	92	75-125

Filter Duplicate

Parameter	Filter Duplicate	Acceptance
Arsenic (%)	2	RPD≤20%

Serial dilution check

Parameter	Serial dilution check	Acceptance
Arsenic (%)	98	90-110

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 42133

**********END OF REP ORT**********

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Table I - Ambient Arsenic Concentration on 22nd April 2025

Parameter	Monitoring Station	Arsenic (Refer to Report No.: 42134)	Standard Volume, Vstd = $Qstd_{avg}$ x Total Time (Refer to the 24-hr RSP Field Operation Data Log Sheet)	Ambient Arsenic Concentration	Exceedance (Refer to Table II for Action and Limit Level)
Ambient Arsenic Concentration, ng/m^3	KTN-DMS4(A) - Temporary Structure at Pak Shek Au	7.6 µg	1586.4 m^3	4.79 ng/m^3	No

Table II – Action and Limit Levels for Ambient Arsenic Monitoring

Parameters	Action Level	Limit Level
Ambient Arsenic Concentration	9.36 ng/m^3 80% of 11.7ng/m^3 –the highest ambient concentration predicted during the construction phase with mitigation measures implemented	11.7 ng/m^3 - the highest ambient arsenic concentration predicted during the construction phase with mitigation measures implemented

	Name	Signature	Date
Prepared by:	Meiling Tang	Meiling	12th May 2025
Checked by:	Marco Ma		12th May 2025

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TEST REPORT

APPLICANT: **Wellab (EM&A)**
RM 1808, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

Report No.:	42134
Date of Issue:	2025-04-29
Date Received:	2025-04-23
Date Tested:	2025-04-23
Date Completed:	2025-04-29

ATTN: **Ms Ivy Tam**

Page: 1 of 1

Sample Description : 1 sample as received from customer said to be quartz filter
Laboratory No. : 42134
Project No. : WMA 20002
Project Title: Service Contract No. NDO 04/2019
Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Arsenic	In-house method SOP036 (ICP-MS)	0.18 µg

Results:

Sample ID	C 200801/033
Sample No.	42134-1
Arsenic (µg)	7.6

Remarks: 1) < = less than
2) Results for the test material reported as received

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

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TEST REPORT

APPLICANT: **Wellab (EM&A)**
RM 1808, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

Report No.:	QC42134
Date of Issue:	2025-04-29
Date Received:	2025-04-23
Date Tested:	2025-04-23
Date Completed:	2025-04-29

ATTN: **Ms Ivy Tam**

QC report:

Method Blank

Parameter	Method Blank	Acceptance
Arsenic (μg)	<0.036	<0.036

Filter Lot Blank

Parameter	Filter Lot Blank	Acceptance
Arsenic (μg)	0.06	N/A

Laboratory control spike/ Method QC

Parameter	MQC	Acceptance
Arsenic (%)	95	80-120

Calibration check

Parameter	CCV	Acceptance
Arsenic (%)	103	90-110

Interference check solution A

Parameter	ICS A	Acceptance
Arsenic (μg)	<0.036	<0.036

Interference check solution AB

Parameter	ICS AB	Acceptance
Arsenic (%)	96	70-130

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 42134

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PATRICK TSE
General Manager

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TEST REPORT

Report No.:	QC42134
Date of Issue:	2025-04-29
Date Received:	2025-04-23
Date Tested:	2025-04-23
Date Completed:	2025-04-29

QC report:

Matrix Spike

Parameter	Matrix Spike	Acceptance
Arsenic (%)	93	75-125

Filter Duplicate

Parameter	Filter Duplicate	Acceptance
Arsenic (%)	7	RPD≤20%

Serial dilution check

Parameter	Serial dilution check	Acceptance
Arsenic (%)	96	90-110

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 42134

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Table I - Ambient Arsenic Concentration on 28th April 2025

Parameter	Monitoring Station	Arsenic (Refer to Report No.: 42167)	Standard Volume, Vstd = $Qstd_{avg}$ x Total Time (Refer to the 24-hr RSP Field Operation Data Log Sheet)	Ambient Arsenic Concentration	Exceedance (Refer to Table II for Action and Limit Level)
Ambient Arsenic Concentration, ng/m^3	KTN-DMS4(A) - Temporary Structure at Pak Shek Au	6.5 µg	1576.3 m^3	4.12 ng/m^3	No

Table II – Action and Limit Levels for Ambient Arsenic Monitoring

Parameters	Action Level	Limit Level
Ambient Arsenic Concentration	9.36 ng/m^3 80% of 11.7ng/m^3 –the highest ambient concentration predicted during the construction phase with mitigation measures implemented	11.7 ng/m^3 - the highest ambient arsenic concentration predicted during the construction phase with mitigation measures implemented

	Name	Signature	Date
Prepared by:	Meiling Tang	Meily	12th May 2025
Checked by:	Marco Ma		12th May 2025

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TEST REPORT

APPLICANT: **Wellab (EM&A)**
RM 1808, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

Report No.:	42167
Date of Issue:	2025-05-06
Date Received:	2025-04-29
Date Tested:	2025-04-29
Date Completed:	2025-05-06

ATTN: **Ms Ivy Tam**

Page: 1 of 1

Sample Description : 1 sample as received from customer said to be quartz filter
Laboratory No. : 42167
Project No. : WMA 20002
Project Title: Service Contract No. NDO 04/2019
Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Arsenic	In-house method SOP036 (ICP-MS)	0.18 μg

Results:

Sample ID	C 200801/034
Sample No.	42167-1
Arsenic (μg)	6.5

Remarks: 1) < = less than
2) Results for the test material reported as received

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PATRICK TSE
General Manager

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TEST REPORT

APPLICANT: **Wellab (EM&A)**
RM 1808, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

Report No.:	QC42167
Date of Issue:	2025-05-06
Date Received:	2025-04-29
Date Tested:	2025-04-29
Date Completed:	2025-05-06

ATTN: **Ms Ivy Tam**

QC report:

Method Blank

Parameter	Method Blank	Acceptance
Arsenic (μg)	<0.036	<0.036

Filter Lot Blank

Parameter	Filter Lot Blank	Acceptance
Arsenic (μg)	0.06	N/A

Laboratory control spike/ Method QC

Parameter	MQC	Acceptance
Arsenic (%)	98	80-120

Calibration check

Parameter	CCV	Acceptance
Arsenic (%)	98	90-110

Interference check solution A

Parameter	ICS A	Acceptance
Arsenic (μg)	<0.036	<0.036

Interference check solution AB

Parameter	ICS AB	Acceptance
Arsenic (%)	96	70-130

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 42167

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TEST REPORT

Report No.:	QC42167
Date of Issue:	2025-05-06
Date Received:	2025-04-29
Date Tested:	2025-04-29
Date Completed:	2025-05-06

QC report:

Matrix Spike

Parameter	Matrix Spike	Acceptance
Arsenic (%)	91	75-125

Filter Duplicate

Parameter	Filter Duplicate	Acceptance
Arsenic (%)	11	RPD≤20%

Serial dilution check

Parameter	Serial dilution check	Acceptance
Arsenic (%)	96	90-110

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 42167

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APPENDIX F
NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATION

Appendix F - Noise Monitoring Results

Location CP-FLN-NMS1 - Belair Monte (Existing)							
Date	Weather	Time	Unit: dB (A) (5-min)			Average	Baseline Level
			L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}
8-Apr-25	Sunny	11:30	66.4	68.5	61.5	67.0	69.9
		11:35	67.8	70.1	62.3		
		11:40	67.8	69.4	62.1		
		11:45	66.3	68.8	61.8		
		11:50	66.5	68.6	61.7		
		11:55	67.1	69.7	61.9		
14-Apr-25	Sunny	10:10	68.6	72.0	62.0	69.7	
		10:15	69.2	72.5	63.2		
		10:20	69.8	73.3	59.9		
		10:25	72.0	74.3	62.3		
		10:30	69.0	71.9	62.6		
		10:35	68.6	71.7	63.4		
23-Apr-25	Sunny	10:20	67.3	69.5	63.1	68.4	
		10:25	68.4	70.3	63.5		
		10:30	68.1	69.7	63.3		
		10:35	67.8	68.4	62.9		
		10:40	69.5	71.8	63.7		
		10:45	68.8	70.3	63.6		
29-Apr-25	Sunny	10:15	70.4	74.7	60.8	67.6	
		10:20	64.7	67.6	59.1		
		10:25	64.7	68.2	58.0		
		10:30	67.9	71.5	59.0		
		10:35	69.0	73.6	59.1		
		10:40	65.8	68.2	57.6		

Location CP-FLN-NMS2 - Scattered Village House in Tong Hang (Existing)							
Date	Weather	Time	Unit: dB (A) (5-min)			Average	Baseline Level
			L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}
8-Apr-25	Sunny	17:00	63.9	65.2	60.3	64.1	59.6
		17:05	63.1	63.9	59.7		
		17:10	63.5	64.7	60.1		
		17:15	63.9	64.5	60.3		
		17:20	65.1	65.7	60.8		
		17:25	64.8	65.4	60.5		
14-Apr-25	Sunny	09:05	68.2	71.4	61.4	67.6	
		09:10	69.4	72.6	64.0		
		09:15	68.0	71.5	62.1		
		09:20	67.1	71.2	61.0		
		09:25	66.1	69.8	61.6		
		09:30	65.5	68.4	60.9		
23-Apr-25	Sunny	11:15	58.1	59.2	57.2	57.2	
		11:20	57.7	58.3	57.2		
		11:25	56.9	57.6	55.9		
		11:30	57.2	58.1	56.6		
		11:35	56.8	57.2	56.3		
		11:40	56.6	56.8	55.9		
29-Apr-25	Sunny	09:20	66.4	67.3	65.4	65.8	
		09:25	65.9	66.7	64.8		
		09:30	65.4	66.3	64.7		
		09:35	66.0	66.8	64.8		
		09:40	66.1	67.5	64.3		
		09:45	64.8	65.6	64.0		

Appendix F - Noise Monitoring Results

Location CP-KTN-NMS2 - Residential Buildings at Ma Tso Lung (Existing)							
Date	Weather	Time	Unit: dB (A) (5-min)			Average	Baseline Level
			L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}
2-Apr-25	Sunny	09:15	57.3	59.6	48.0	54.4	58.6
		09:20	51.8	56.5	49.0		
		09:25	51.7	53.6	43.0		
		09:30	54.8	58.3	41.7		
		09:35	53.9	57.2	40.1		
		09:40	54.5	58.3	41.8		
7-Apr-25	Sunny	11:00	52.0	56.9	41.1	48.6	
		11:05	45.7	46.4	39.7		
		11:10	45.7	50.6	38.4		
		11:15	46.4	50.2	39.1		
		11:20	47.8	50.9	41.8		
		11:25	49.7	51.4	42.4		
16-Apr-25	Sunny	09:25	59.0	59.9	58.0	58.8	
		09:30	59.8	60.4	58.0		
		09:35	58.5	59.4	57.9		
		09:40	58.3	59.1	57.4		
		09:45	58.2	58.7	57.4		
		09:50	58.8	59.9	57.6		
22-Apr-25	Sunny	10:00	58.0	61.7	53.3	61.6	
		10:05	57.4	61.1	52.6		
		10:10	56.7	60.8	51.7		
		10:15	65.1	68.7	52.1		
		10:20	63.5	64.2	52.5		
		10:25	62.1	65.1	53.7		
28-Apr-25	Sunny	09:10	58.4	60.7	57.2	61.1	
		09:15	66.0	66.5	57.4		
		09:20	58.2	59.5	57.0		
		09:25	61.9	62.2	55.2		
		09:30	57.1	57.4	54.7		
		09:35	55.8	57.0	54.7		

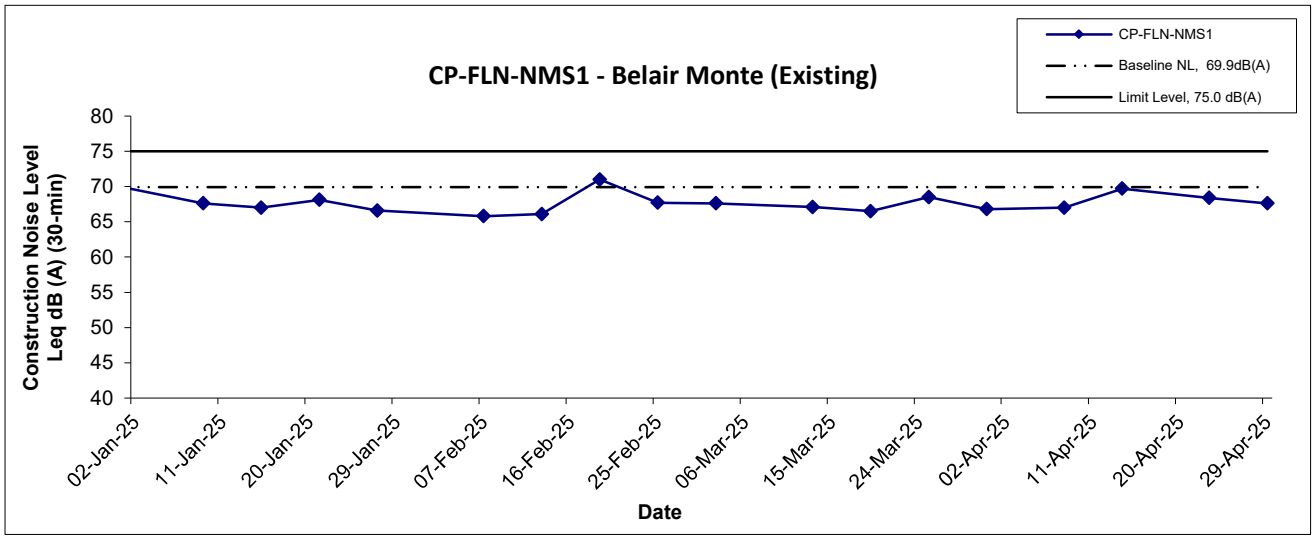
Location CP-KTN-NMS3 - Fung Kong Garden (Existing)							
Date	Weather	Time	Unit: dB (A) (5-min)			Average	Baseline Level
			L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}
2-Apr-25	Sunny	09:55	58.6	59.9	48.1	55.3	51.6
		10:00	54.7	57.0	47.2		
		10:05	54.1	57.2	47.0		
		10:10	51.8	54.5	42.8		
		10:15	54.8	59.3	44.2		
		10:20	54.6	59.4	45.6		
7-Apr-25	Sunny	10:45	52.5	54.9	50.8	52.1	
		10:50	51.9	54.2	50.6		
		10:55	53.8	56.9	52.6		
		11:00	50.8	53.3	49.4		
		11:05	51.3	54.0	50.6		
		11:10	51.6	54.0	50.8		
16-Apr-25	Sunny	10:15	50.3	54.3	45.3	50.8	
		10:20	48.2	50.0	45.2		
		10:25	52.1	52.7	45.5		
		10:30	47.6	49.9	45.2		
		10:35	49.1	51.2	46.3		
		10:40	53.8	59.7	45.4		
22-Apr-25	Sunny	10:40	52.8	55.7	49.0	53.2	
		10:45	54.2	56.6	49.2		
		10:50	52.1	55.7	48.8		
		10:55	51.6	55.3	48.6		
		11:00	51.7	55.4	48.7		
		11:05	55.4	57.3	49.5		
28-Apr-25	Sunny	09:50	58.0	59.4	53.6	54.9	
		09:55	54.0	54.9	53.1		
		10:00	55.5	55.9	53.7		
		10:05	52.5	53.3	51.7		
		10:10	52.0	53.0	51.3		
		10:15	54.6	55.6	53.5		

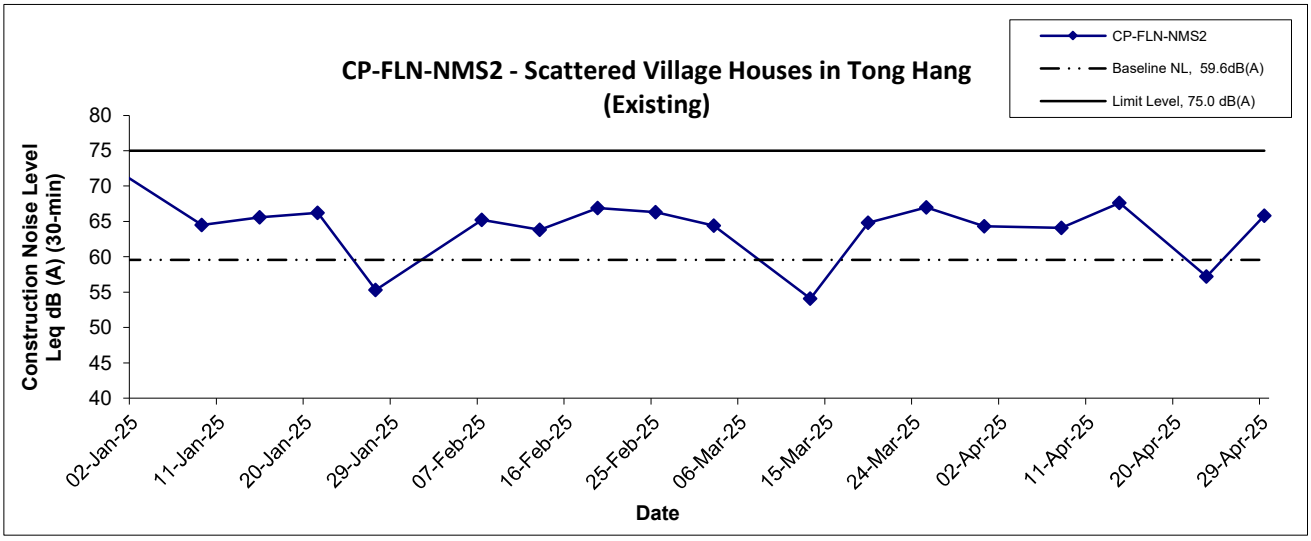
Appendix F - Noise Monitoring Results

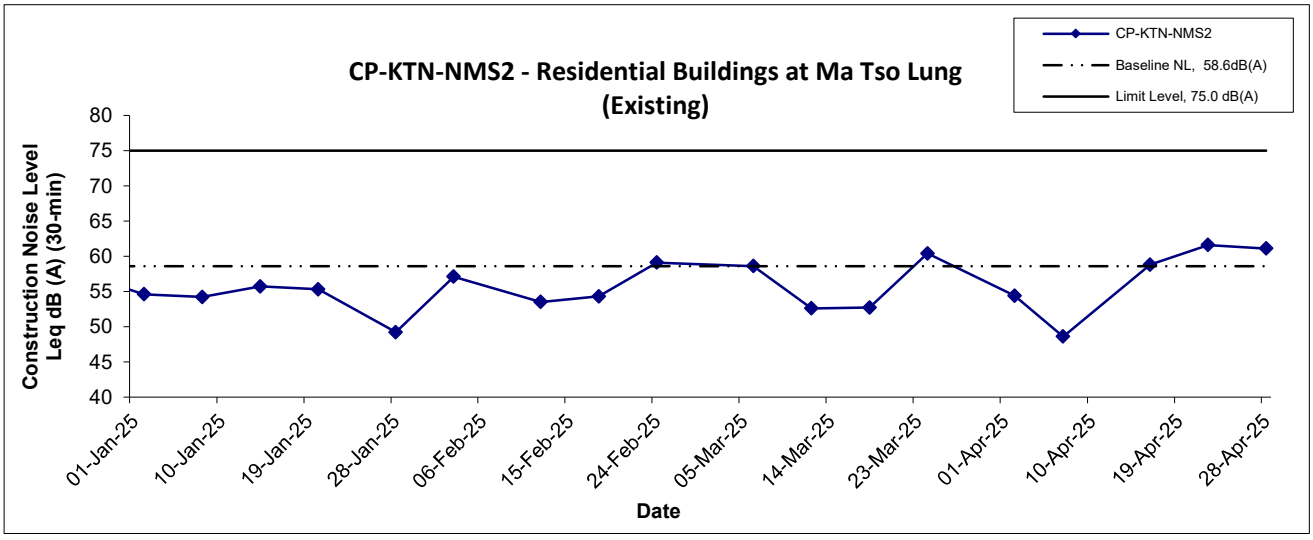
Location CP-KTN-NMS5 - N/A							
Date	Weather	Time	Unit: dB (A) (5-min)			Average	Baseline Level
			L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}
2-Apr-25	Sunny	11:30	62.4	64.8	59.8	59.7	57.2
		11:35	60.4	62.8	58.8		
		11:40	59.7	62.6	56.9		
		11:45	58.6	63.7	58.4		
		11:50	57.9	63.4	56.7		
		11:55	56.4	62.8	55.7		
7-Apr-25	Sunny	13:15	52.9	55.7	46.8	53.0	
		13:20	49.9	52.1	47.5		
		13:25	49.9	51.3	47.8		
		13:30	57.2	62.2	49.2		
		13:35	48.4	50.0	46.7		
		13:40	53.3	58.0	46.4		
16-Apr-25	Sunny	13:00	47.5	48.3	44.1	47.8	
		13:05	47.6	48.6	44.3		
		13:10	48.1	49.3	44.4		
		13:15	46.9	47.8	43.8		
		13:20	48.3	50.6	44.5		
		13:25	48.1	49.7	44.3		
22-Apr-25	Sunny	11:30	57.0	58.7	55.3	56.5	
		11:35	56.7	58.0	55.5		
		11:40	56.4	57.1	55.1		
		11:45	55.6	56.3	55.0		
		11:50	57.5	60.9	55.4		
		11:55	55.8	56.5	55.1		
28-Apr-25	Sunny	11:30	56.5	57.2	54.9	56.7	
		11:35	55.4	56.2	54.7		
		11:40	56.5	57.9	54.9		
		11:45	58.1	61.3	54.4		
		11:50	58.1	61.9	53.8		
		11:55	54.6	55.2	53.6		

Location CP-KTN-NMS6 - Ho Sheung Heung, Hau Ku Shek Ancestral Hall, Hung Shing Temple & Pai Fung Temple and Sin Wai Nunnery (Existing)							
Date	Weather	Time	Unit: dB (A) (5-min)			Average	Baseline Level
			L_{eq}	L_{10}	L_{90}	L_{eq}	L_{eq}
2-Apr-25	Sunny	10:40	65.0	69.7	54.8	66.3	55.1
		10:45	64.9	69.5	55.0		
		10:50	67.9	70.0	62.5		
		10:55	67.6	69.4	61.0		
		11:00	64.7	67.5	56.7		
		11:05	66.6	70.5	56.1		
7-Apr-25	Sunny	10:15	53.4	55.5	48.3	56.5	
		10:20	56.4	59.1	47.4		
		10:25	56.0	59.8	47.0		
		10:30	56.5	59.8	47.7		
		10:35	58.4	59.0	46.9		
		10:40	56.7	57.6	46.4		
16-Apr-25	Sunny	11:05	63.7	64.3	54.1	62.2	
		11:10	58.6	60.8	55.5		
		11:15	63.4	65.3	56.2		
		11:20	62.6	66.1	56.4		
		11:25	61.3	64.9	56.2		
		11:30	61.6	65.8	56.3		
22-Apr-25	Sunny	09:15	61.0	63.3	56.2	63.8	
		09:20	64.1	67.0	58.7		
		09:25	63.5	67.2	58.8		
		09:30	65.4	68.5	59.4		
		09:35	65.6	68.8	59.3		
		09:40	60.4	61.4	56.3		
28-Apr-25	Sunny	10:40	62.3	66.0	57.0	63.6	
		10:45	60.0	62.6	57.1		
		10:50	64.5	69.1	57.4		
		10:55	65.5	69.3	57.4		
		11:00	62.9	66.6	57.2		
		11:05	64.4	68.2	57.1		

Noise Levels

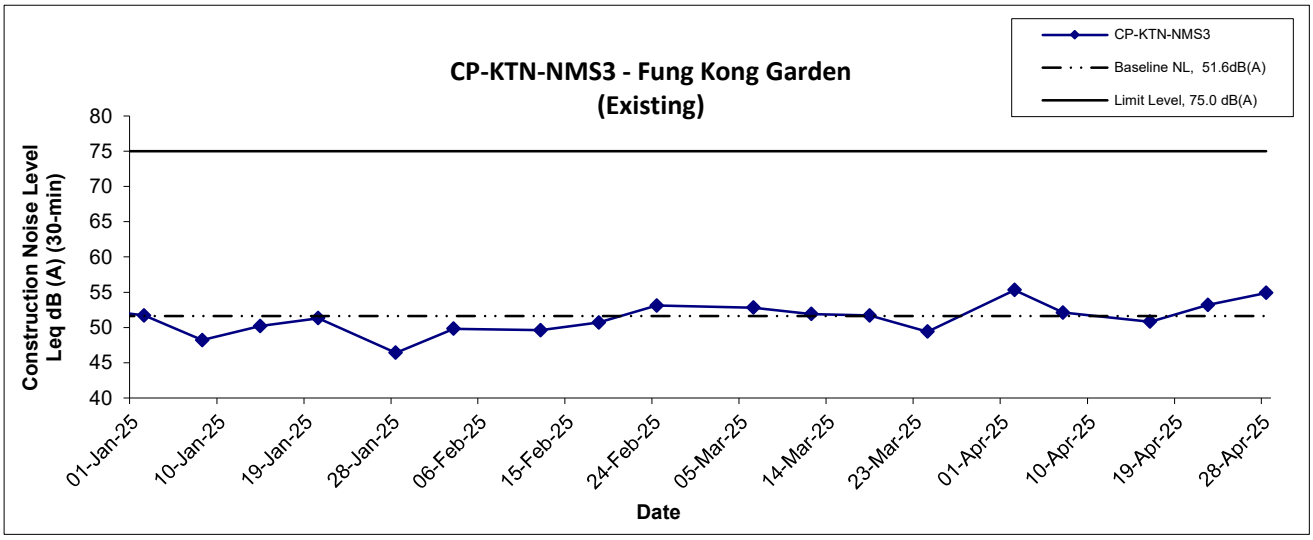


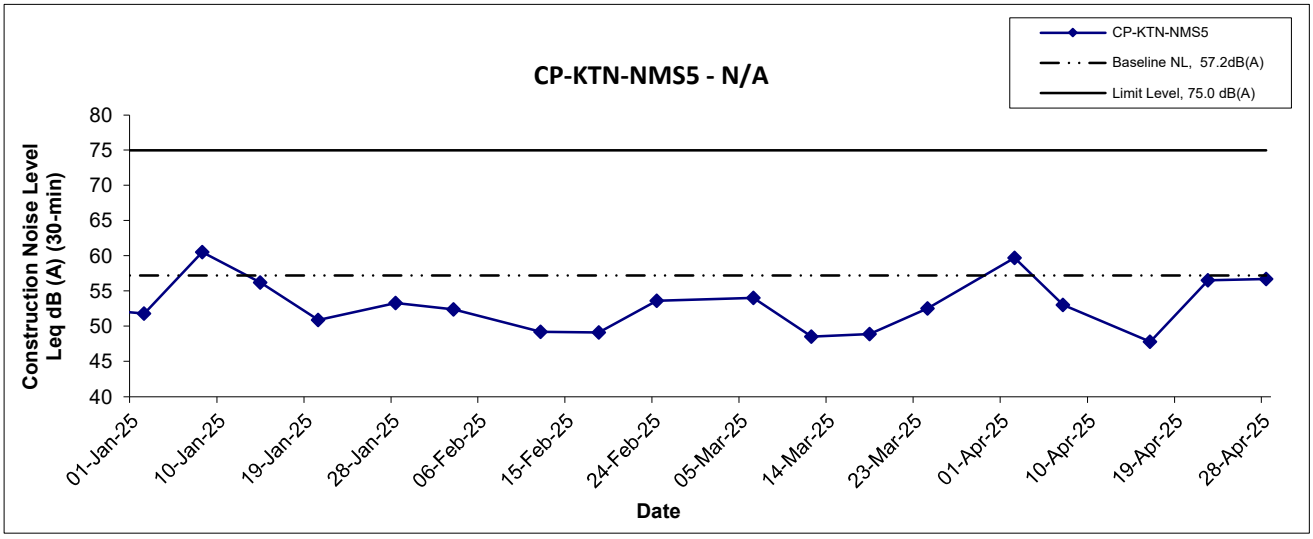


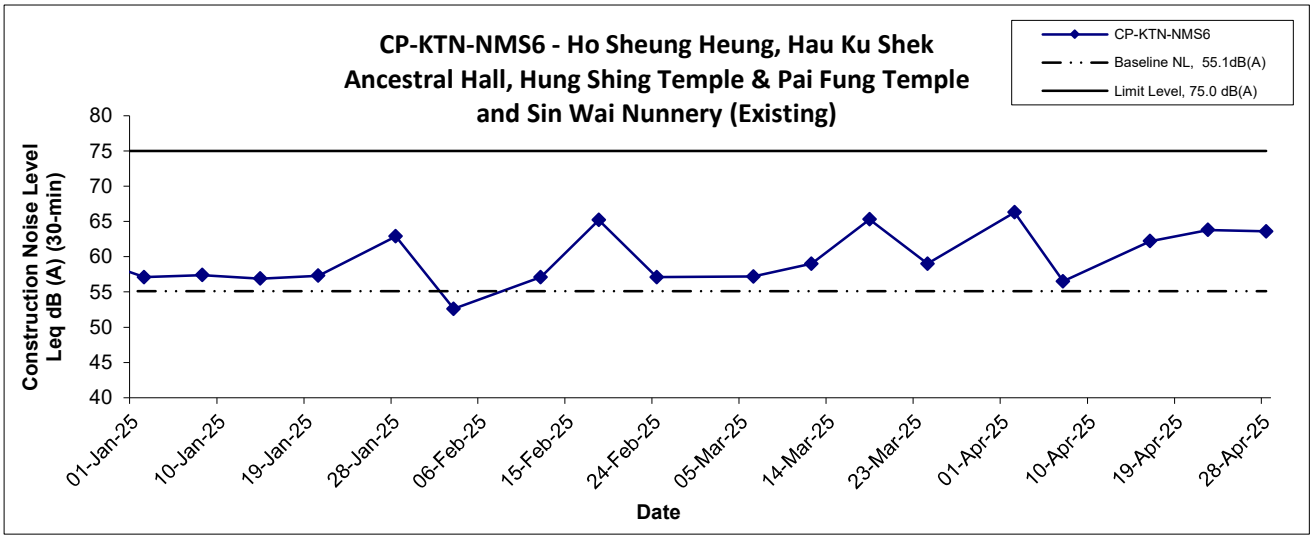


Title	Scale	Project No.	
Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas Graphical Presentation of Construction Noise Monitoring Results	N.T.S	WMA20002	WELLAB 匯力 consulting . testing . research
	Date Apr 25	Appendix F	

Noise Levels







Title	Scale	Project No.	
Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas Graphical Presentation of Construction Noise Monitoring Results	N.T.S	WMA20002	WELLAB 匯力 consulting . testing . research
	Date Apr 25	Appendix F	

APPENDIX G
WATER QUALITY MONITORING RESULTS AND GRAPHICAL PRESENTATIONS

Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Water Quality Monitoring Results

Location: SYR-CS1

Date	Weather Condition	Start Time	Sampling Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)		Suspended Solids (mg/L)		Arsenic (μg/L)	
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
2-Apr-25	Sunny	14:17	Middle	0.2	22.3 22.3	22.3	8.1 8.1	8.1	0.3 0.3	0.3	25.7 25.6	25.7	2.2 2.2	2.2	72.6 71.7	72.2	11 12	11.5	7 7	7.0
5-Apr-25	Cloudy	11:51	Middle	0.1	20.4 20.4	20.4	7.4 7.4	7.4	0.1 0.1	0.1	43.6 43.7	43.7	3.9 3.9	3.9	7.2 7.2	7.2	24 24	24.0	12 11	11.5
7-Apr-25	Cloudy	11:50	Middle	0.1	20.4 20.4	20.4	7.4 7.4	7.4	0.1 0.1	0.1	43.7 43.6	43.7	3.9 3.9	3.9	7.2 7.2	7.2	24 25	24.5	14 15	14.5
9-Apr-25	Cloudy	09:12	Middle	0.1	23.0 23.0	23.0	7.4 7.4	7.4	0.1 0.1	0.1	69.1 69.0	69.1	5.9 5.9	5.9	6.8 6.9	6.9	14 13	13.5	7 8	7.5
11-Apr-25	Cloudy	10:30	Middle	0.2	25.2 25.2	25.2	8.2 8.1	8.2	0.3 0.3	0.3	55.6 54.9	55.3	4.6 4.5	4.6	3.5 3.5	3.5	23 22	22.5	16 16	16.0
14-Apr-25	Sunny	11:36	Middle	0.2	24.8 24.8	24.8	7.9 7.9	7.9	0.2 0.2	0.2	48.9 48.8	48.9	4.1 4.0	4.1	51.6 50.9	51.3	23 22	22.5	13 12	12.5
16-Apr-25	Sunny	14:07	Middle	0.2	26.0 26.0	26.0	7.6 7.6	7.6	0.1 0.1	0.1	56.6 56.8	56.7	4.6 4.6	4.6	4.4 4.4	4.4	23 24	23.5	12 11	11.5
18-Apr-25	Cloudy	12:09	Middle	0.2	25.7 25.7	25.7	7.6 7.6	7.6	0.1 0.1	0.1	67.1 67.1	67.1	5.5 5.5	5.5	7.5 7.5	7.5	8 7	7.5	7 6	6.5
22-Apr-25	Sunny	09:45	Middle	0.2	26.8 26.8	26.8	8.0 7.9	8.0	0.1 0.1	0.1	28.6 27.2	27.9	2.3 2.2	2.3	29.9 30.1	30.0	36 24	30.0	14 14	14.0
24-Apr-25	Sunny	14:57	Middle	0.2	29.6 29.6	29.6	8.0 7.9	8.0	0.2 0.2	0.2	42.7 42.4	42.6	3.2 3.2	3.2	113.7 111.2	112.5	33 32	32.5	13 12	12.5
26-Apr-25	Cloudy	09:51	Middle	0.2	26.3 26.3	26.3	7.6 7.7	7.7	0.7 0.7	0.7	54.0 53.9	54.0	4.3 4.3	4.3	6.6 6.7	6.7	23 24	23.5	12 13	12.5
28-Apr-25	Cloudy	09:12	Middle	0.2	26.7 26.8	26.8	7.8 7.7	7.8	0.2 0.2	0.2	63.8 63.9	63.9	5.1 5.1	5.1	4.8 4.8	4.8	24 24	24.0	16 15	15.5
30-Apr-25	Cloudy	10:06	Middle	0.1	24.8 24.8	24.8	7.6 7.6	7.6	0.1 0.1	0.1	56.7 56.6	56.7	4.7 4.7	4.7	6.1 6.1	6.1	25 24	24.5	14 13	13.5

Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Water Quality Monitoring Results

Location: SYR-IS1

Date	Weather Condition	Start Time	Sampling Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)		Suspended Solids (mg/L)		Arsenic (μg/L)	
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
2-Apr-25	Sunny	14:41	Middle	0.5	22.8 22.8	22.8	8.2 8.2	8.2	0.4 0.4	0.4	104.4 104.5	104.5	9.0 9.0	9.0	29.0 29.1	29.1	34 33	33.5	7 7	7.0
5-Apr-25	Cloudy	12:05	Middle	0.6	19.5 19.5	19.5	7.8 7.7	7.8	0.3 0.3	0.3	81.0 80.4	80.7	7.4 7.4	7.4	14.4 14.4	14.4	23 24	23.5	13 13	13.0
7-Apr-25	Cloudy	12:05	Middle	0.6	19.5 19.5	19.5	7.8 7.7	7.8	0.3 0.3	0.3	81.0 80.4	80.7	7.4 7.4	7.4	14.4 14.4	14.4	23 22	22.5	14 14	14.0
9-Apr-25	Cloudy	09:28	Middle	0.5	23.4 23.4	23.4	7.8 7.8	7.8	0.8 0.8	0.8	73.0 72.7	72.9	6.2 6.2	6.2	13.3 13.3	13.3	8 7	7.5	8 9	8.5
11-Apr-25	Cloudy	10:43	Middle	0.4	25.6 25.6	25.6	7.9 7.9	7.9	0.7 0.7	0.7	75.9 75.7	75.8	6.2 6.2	6.2	9.9 9.9	9.9	14 15	14.5	15 15	15.0
14-Apr-25	Sunny	11:55	Middle	0.4	24.2 24.2	24.2	7.8 7.8	7.8	0.3 0.3	0.3	73.9 73.8	73.9	6.2 6.2	6.2	29.7 29.4	29.6	26 25	25.5	13 13	13.0
16-Apr-25	Sunny	14:28	Middle	0.4	25.4 25.4	25.4	7.9 7.9	7.9	0.6 0.6	0.6	91.4 91.3	91.4	7.5 7.5	7.5	8.1 8.2	8.2	15 15	15.0	11 10	10.5
18-Apr-25	Cloudy	12:27	Middle	0.5	25.9 25.9	25.9	7.8 7.8	7.8	0.6 0.6	0.6	78.7 78.6	78.7	6.4 6.4	6.4	13.0 13.1	13.1	8 8	8.0	7 7	7.0
22-Apr-25	Sunny	10:12	Middle	0.5	26.5 26.5	26.5	7.7 7.7	7.7	0.3 0.3	0.3	41.5 40.8	41.2	3.3 3.3	3.3	36.1 37.4	36.8	44 43	43.5	15 14	14.5
24-Apr-25	Sunny	15:17	Middle	0.2	32.8 32.8	32.8	9.3 9.3	9.3	0.2 0.2	0.2	84.6 84.5	84.6	6.1 6.1	6.1	53.3 53.7	53.5	25 24	24.5	12 12	12.0
26-Apr-25	Cloudy	10:18	Middle	0.4	26.6 26.6	26.6	7.9 7.9	7.9	0.8 0.8	0.8	78.3 78.1	78.2	6.3 6.2	6.3	14.8 14.8	14.8	22 22	22.0	12 12	12.0
28-Apr-25	Cloudy	09:36	Middle	0.5	27.1 27.1	27.1	7.8 7.8	7.8	0.7 0.7	0.7	80.8 80.2	80.5	6.4 6.4	6.4	7.9 8.0	8.0	16 17	16.5	15 14	14.5
30-Apr-25	Cloudy	10:21	Middle	0.5	26.5 26.5	26.5	7.7 7.7	7.7	0.4 0.4	0.4	81.2 81.1	81.2	6.5 6.5	6.5	15.2 15.2	15.2	15 16	15.5	11 12	11.5

Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Water Quality Monitoring Results

Location: NTR-CS1

Date	Weather Condition	Start Time	Sampling Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)		Suspended Solids (mg/L)	
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
2-Apr-25	Sunny	13:47	Middle	0.2	22.4 22.4	22.4	8.0 8.0	8.0	0.2 0.2	0.2	101.8 101.8	101.8	8.8 8.8	8.8	8.1 8.2	8.2	14 15	14.5
5-Apr-25	Cloudy	13:02	Middle	0.2	20.3 20.3	20.3	7.4 7.4	7.4	0.1 0.1	0.1	86.7 86.6	86.7	7.8 7.8	7.8	7.5 7.5	7.5	36 35	35.5
7-Apr-25	Cloudy	13:02	Middle	0.2	20.3 20.3	20.3	7.4 7.4	7.4	0.1 0.1	0.1	86.7 86.6	86.7	7.8 7.8	7.8	7.5 7.5	7.5	44 43	43.5
9-Apr-25	Cloudy	10:41	Middle	0.2	22.2 22.2	22.2	7.8 7.8	7.8	0.1 0.1	0.1	86.4 86.5	86.5	7.5 7.5	7.5	5.9 5.9	5.9	12 13	12.5
11-Apr-25	Cloudy	11:42	Middle	0.2	23.5 23.5	23.5	7.7 7.7	7.7	0.1 0.1	0.1	81.1 81.1	81.1	6.9 6.9	6.9	4.6 4.7	4.7	14 14	14.0
14-Apr-25	Sunny	10:11	Middle	0.2	21.6 21.6	21.6	7.8 7.8	7.8	0.1 0.1	0.1	88.4 88.3	88.4	7.8 7.8	7.8	8.6 8.6	8.6	21 22	21.5
16-Apr-25	Sunny	15:42	Middle	0.2	26.4 26.4	26.4	7.9 7.9	7.9	0.1 0.1	0.1	96.4 96.2	96.3	7.8 7.8	7.8	4.1 4.1	4.1	14 13	13.5
18-Apr-25	Cloudy	13:25	Middle	0.2	25.8 25.8	25.8	7.8 7.8	7.8	0.1 0.1	0.1	88.8 88.7	88.8	7.2 7.2	7.2	4.1 4.1	4.1	9 8	8.5
22-Apr-25	Sunny	11:43	Middle	0.2	27.5 27.5	27.5	7.8 7.7	7.8	0.1 0.1	0.1	82.9 83.9	83.4	6.6 6.6	6.6	6.3 6.5	6.4	15 16	15.5
24-Apr-25	Sunny	14:30	Middle	0.2	30.2 30.2	30.2	8.2 8.2	8.2	0.2 0.2	0.2	89.6 89.4	89.5	6.8 6.7	6.8	5.4 5.5	5.5	21 22	21.5
26-Apr-25	Cloudy	11:23	Middle	0.2	24.7 24.7	24.7	7.9 7.9	7.9	0.1 0.1	0.1	88.7 88.7	88.7	7.4 7.4	7.4	6.5 6.5	6.5	23 25	24.0
28-Apr-25	Cloudy	10:41	Middle	0.2	25.9 25.9	25.9	7.9 7.9	7.9	0.1 0.1	0.1	79.7 79.7	79.7	6.5 6.5	6.5	5.1 5.1	5.1	14 13	13.5
30-Apr-25	Cloudy	11:32	Middle	0.2	26.2 26.2	26.2	7.8 7.8	7.8	0.1 0.1	0.1	102.7 102.4	102.6	8.3 8.3	8.3	5.9 5.9	5.9	11 13	12.0

Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Water Quality Monitoring Results

Location: NTR-IS1

Date	Weather Condition	Start Time	Sampling Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)		Suspended Solids (mg/L)	
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
2-Apr-25	Sunny	13:18	Middle	0.2	23.0 23.0	23.0	7.9 8.0	8.0	0.1 0.1	0.1	120.7 121.0	120.9	10.4 10.4	10.4	9.3 9.2	9.3	12 11	11.5
5-Apr-25	Cloudy	12:37	Middle	0.2	20.1 20.1	20.1	7.5 7.5	7.5	0.1 0.1	0.1	69.9 69.8	69.9	6.3 6.3	6.3	8.1 8.2	8.2	12 13	12.5
7-Apr-25	Cloudy	12:37	Middle	0.2	20.1 20.1	20.1	7.5 7.5	7.5	0.1 0.1	0.1	69.9 69.8	69.9	6.3 6.3	6.3	8.1 8.2	8.2	26 25	25.5
9-Apr-25	Cloudy	10:12	Middle	0.2	21.5 21.5	21.5	7.5 7.5	7.5	0.1 0.1	0.1	77.9 77.8	77.9	6.9 6.9	6.9	6.2 6.2	6.2	11 12	11.5
11-Apr-25	Cloudy	11:24	Middle	0.1	25.0 25.0	25.0	7.8 7.8	7.8	0.1 0.1	0.1	71.0 72.2	71.6	5.9 6.0	6.0	4.8 4.8	4.8	13 12	12.5
14-Apr-25	Sunny	11:10	Middle	0.5	22.7 22.7	22.7	7.8 7.8	7.8	0.1 0.1	0.1	70.2 70.3	70.3	6.1 6.1	6.1	7.3 7.1	7.2	24 24	24.0
16-Apr-25	Sunny	15:24	Middle	0.4	25.7 25.7	25.7	7.8 7.7	7.8	0.2 0.2	0.2	90.7 90.7	90.7	7.4 7.4	7.4	5.9 5.8	5.9	14 15	14.5
18-Apr-25	Cloudy	12:57	Middle	0.2	25.9 25.9	25.9	7.7 7.7	7.7	0.1 0.1	0.1	84.8 84.6	84.7	6.9 6.9	6.9	3.9 3.8	3.9	7 7	7.0
22-Apr-25	Sunny	11:08	Middle	0.3	26.8 26.6	26.7	7.7 7.7	7.7	0.1 0.1	0.1	64.8 64.0	64.4	5.2 5.1	5.2	4.3 4.3	4.3	16 16	16.0
24-Apr-25	Sunny	13:55	Middle	0.5	28.8 28.8	28.8	8.6 8.6	8.6	0.2 0.2	0.2	113.3 113.6	113.5	8.7 8.8	8.8	5.3 5.3	5.3	23 23	23.0
26-Apr-25	Cloudy	10:59	Middle	0.2	25.2 25.2	25.2	7.9 7.9	7.9	0.1 0.1	0.1	74.9 74.6	74.8	6.2 6.1	6.2	7.3 7.3	7.3	14 13	13.5
28-Apr-25	Cloudy	10:18	Middle	0.2	25.9 25.9	25.9	7.9 7.9	7.9	0.1 0.1	0.1	75.8 75.7	75.8	6.2 6.2	6.2	5.7 5.7	5.7	14 14	14.0
30-Apr-25	Cloudy	11:14	Middle	0.3	25.8 25.8	25.8	7.4 7.4	7.4	0.1 0.1	0.1	85.8 85.8	85.8	7.0 7.0	7.0	6.3 6.3	6.3	12 12	12.0

Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Water Quality Monitoring Results

Location: SHST-IS2

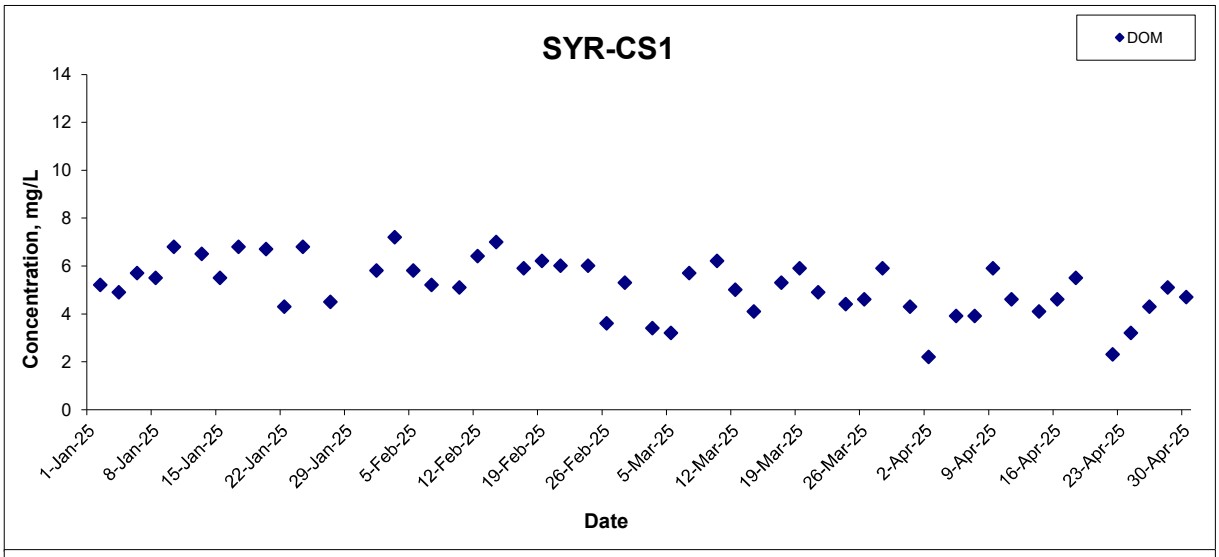
Date	Weather Condition	Start Time	Sampling Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)		Suspended Solids (mg/L)	
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
2-Apr-25	Sunny	13:04	Middle	0.2	16.7 16.7	16.7	8.2 8.2	8.2	0.1 0.1	0.1	79.3 79.3	79.3	7.7 7.7	7.7	7.9 7.8	7.9	16 16	16.0
5-Apr-25	Cloudy	12:24	Middle	0.2	20.0 20.0	20.0	7.4 7.4	7.4	0.1 0.1	0.1	80.3 79.8	80.1	7.3 7.3	7.3	6.6 6.6	6.6	24 23	23.5
7-Apr-25	Cloudy	12:24	Middle	0.2	20.0 20.0	20.0	7.4 7.4	7.4	0.1 0.1	0.1	83.6 82.6	83.1	7.6 7.5	7.6	6.6 6.6	6.6	24 23	23.5
9-Apr-25	Cloudy	09:55	Middle	0.2	21.9 21.9	21.9	7.5 7.5	7.5	0.1 0.1	0.1	81.4 81.3	81.4	7.1 7.1	7.1	5.6 5.7	5.7	14 12	13.0
11-Apr-25	Cloudy	11:14	Middle	0.2	24.8 24.8	24.8	7.7 7.7	7.7	0.1 0.1	0.1	89.9 89.7	89.8	7.5 7.4	7.5	2.1 2.0	2.1	12 12	12.0
14-Apr-25	Sunny	10:52	Middle	0.2	19.5 19.5	19.5	7.9 7.9	7.9	0.1 0.1	0.1	79.7 79.6	79.7	7.3 7.3	7.3	9.5 9.4	9.5	23 25	24.0
16-Apr-25	Sunny	15:09	Middle	0.2	26.4 26.4	26.4	7.7 7.7	7.7	0.1 0.1	0.1	90.2 89.5	89.9	7.3 7.2	7.3	3.8 3.9	3.9	15 14	14.5
18-Apr-25	Cloudy	12:49	Middle	0.2	25.9 25.9	25.9	7.7 7.7	7.7	0.1 0.1	0.1	87.2 87.1	87.2	7.1 7.1	7.1	3.1 3.0	3.1	8 8	8.0
22-Apr-25	Sunny	10:50	Middle	0.2	24.2 24.1	24.2	7.9 7.8	7.9	0.1 0.1	0.1	64.2 63.9	64.1	5.4 5.4	5.4	9.3 9.1	9.2	16 17	16.5
24-Apr-25	Sunny	13:40	Middle	0.2	25.3 25.2	25.3	8.4 8.4	8.4	0.1 0.1	0.1	67.5 67.3	67.4	5.5 5.5	5.5	9.4 9.5	9.5	22 23	22.5
26-Apr-25	Cloudy	10:42	Middle	0.2	24.8 24.8	24.8	8.1 8.1	8.1	0.1 0.1	0.1	91.5 91.4	91.5	7.6 7.6	7.6	6.3 6.4	6.4	15 16	15.5
28-Apr-25	Cloudy	10:03	Middle	0.2	26.4 26.4	26.4	7.8 7.8	7.8	0.1 0.1	0.1	91.6 91.4	91.5	7.4 7.4	7.4	4.0 4.1	4.1	16 15	15.5
30-Apr-25	Cloudy	10:49	Middle	0.2	25.2 25.2	25.2	7.6 7.6	7.6	0.1 0.1	0.1	96.6 96.8	96.7	8.0 8.0	8.0	4.7 4.7	4.7	10 9	9.5

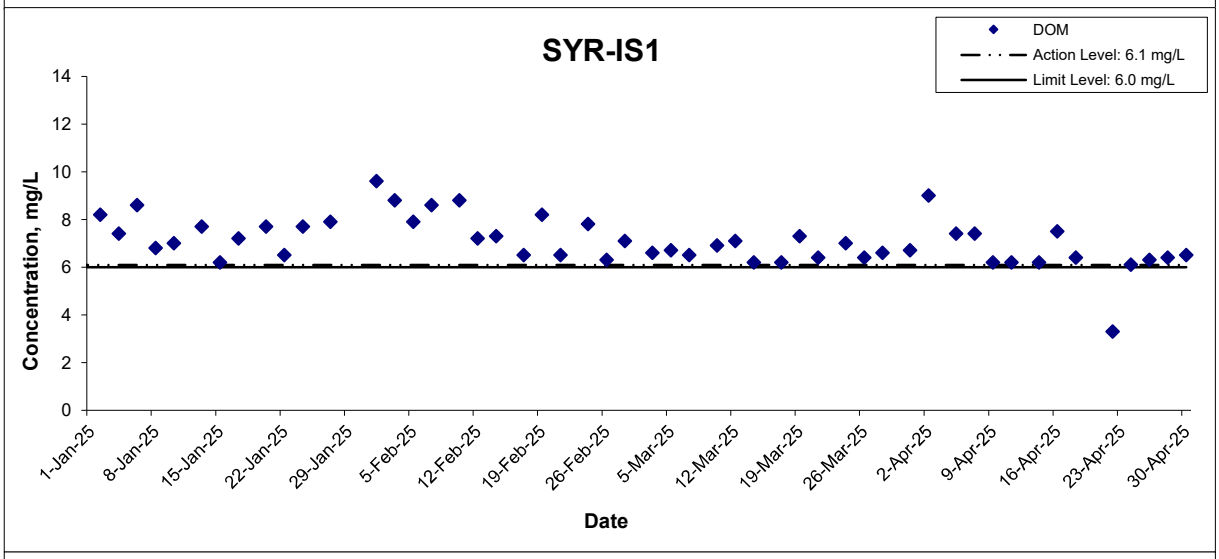
Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Water Quality Monitoring Results

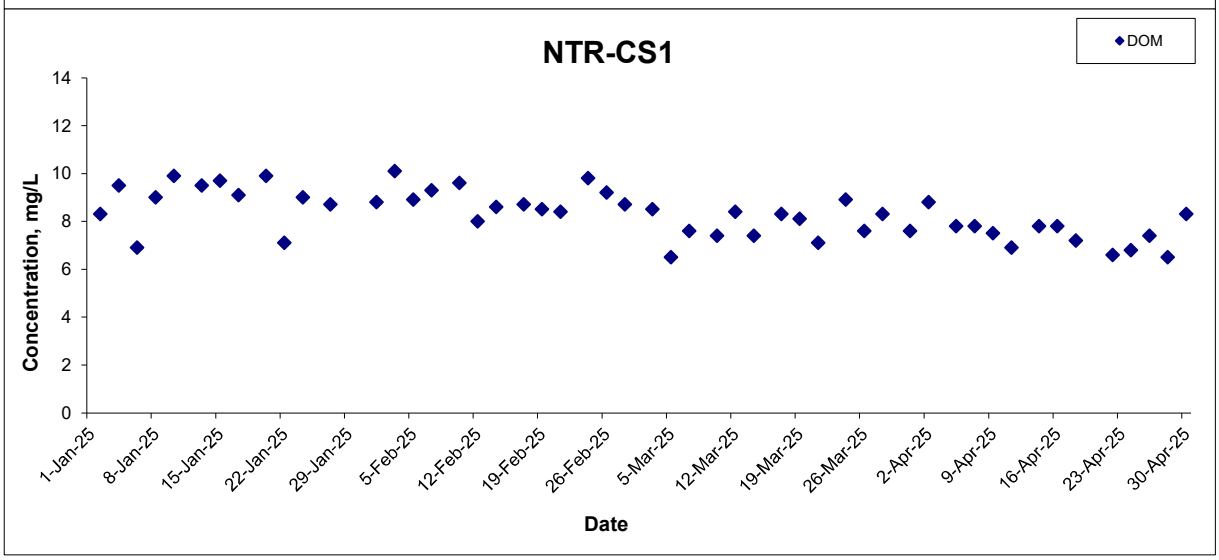
Location: MWR-IS3

Date	Weather Condition	Start Time	Sampling Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)		Suspended Solids (mg/L)	
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
2-Apr-25	Sunny	13:38	Middle	0.2	22.6 22.6	22.6	8.0 8.0	8.0	0.1 0.1	0.1	100.8 100.8	100.8	8.7 8.7	8.7	6.5 6.5	6.5	12 12	12.0
5-Apr-25	Cloudy	13:11	Middle	0.2	20.3 20.3	20.3	7.4 7.4	7.4	0.1 0.1	0.1	96.8 96.7	96.8	8.7 8.7	8.7	7.9 7.9	7.9	22 22	22.0
7-Apr-25	Cloudy	13:11	Middle	0.2	20.3 20.3	20.3	7.4 7.4	7.4	0.1 0.1	0.1	97.8 97.9	97.9	8.8 8.8	8.8	7.9 7.9	7.9	43 42	42.5
9-Apr-25	Cloudy	10:52	Middle	0.2	22.4 22.4	22.4	7.9 7.9	7.9	0.1 0.1	0.1	103.3 103.1	103.2	9.0 9.0	9.0	5.5 5.5	5.5	13 14	13.5
11-Apr-25	Cloudy	11:59	Middle	0.2	23.7 23.7	23.7	7.6 7.6	7.6	0.1 0.1	0.1	103.2 102.7	103.0	8.7 8.7	8.7	3.7 3.7	3.7	8 8	8.0
14-Apr-25	Sunny	09:58	Middle	0.2	21.3 21.4	21.4	8.1 8.1	8.1	0.2 0.2	0.2	100.5 100.7	100.6	8.9 8.9	8.9	8.1 8.1	8.1	14 13	13.5
16-Apr-25	Sunny	16:00	Middle	0.2	26.5 26.5	26.5	7.9 7.9	7.9	0.1 0.1	0.1	108.7 108.3	108.5	8.7 8.7	8.7	4.4 4.4	4.4	12 12	12.0
18-Apr-25	Cloudy	13:36	Middle	0.2	25.9 25.9	25.9	7.8 7.8	7.8	0.1 0.1	0.1	110.0 109.7	109.9	8.9 8.9	8.9	4.5 4.6	4.6	9 8	8.5
22-Apr-25	Sunny	11:35	Middle	0.2	26.8 26.8	26.8	8.3 8.3	8.3	0.1 0.1	0.1	82.2 82.8	82.5	6.6 6.6	6.6	22.5 22.7	22.6	16 16	16.0
24-Apr-25	Sunny	14:21	Middle	0.2	30.7 30.7	30.7	8.1 8.1	8.1	0.2 0.2	0.2	99.9 99.8	99.9	7.5 7.5	7.5	3.5 3.6	3.6	15 16	15.5
26-Apr-25	Cloudy	11:40	Middle	0.2	24.6 24.6	24.6	7.9 7.9	7.9	0.1 0.1	0.1	105.2 105.1	105.2	8.8 8.8	8.8	6.1 6.1	6.1	12 12	12.0
28-Apr-25	Cloudy	10:54	Middle	0.2	25.5 25.5	25.5	8.0 8.0	8.0	0.1 0.1	0.1	107.7 107.6	107.7	8.8 8.8	8.8	5.3 5.3	5.3	8 8	8.0
30-Apr-25	Cloudy	11:42	Middle	0.2	25.7 25.7	25.7	7.7 7.7	7.7	0.2 0.2	0.2	108.8 108.8	108.8	8.9 8.9	8.9	5.0 5.0	5.0	9 9	9.0

Dissolved Oxygen (Middle)

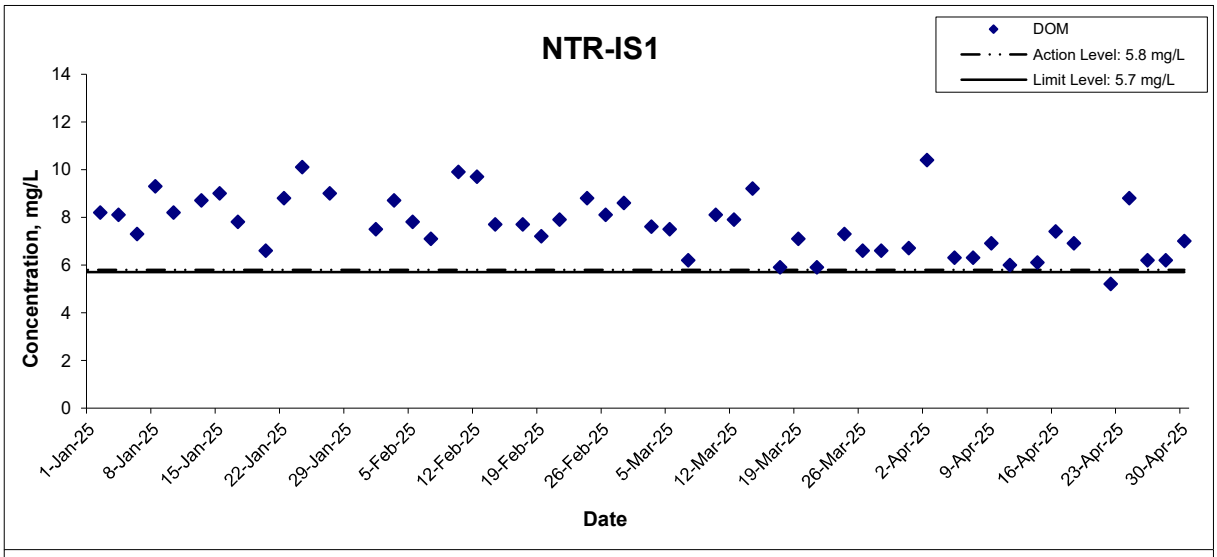


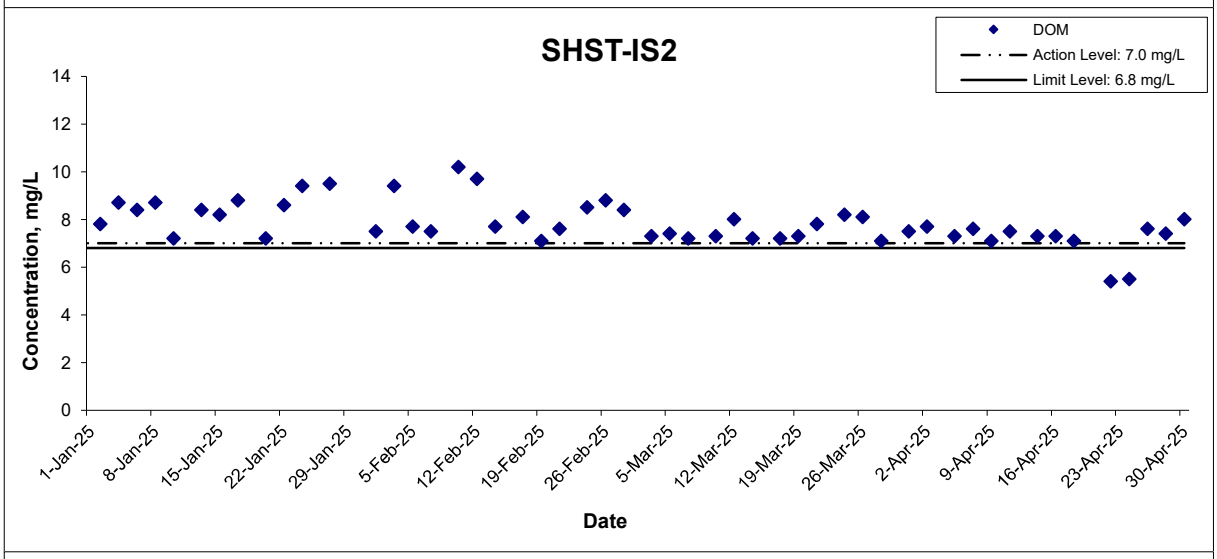


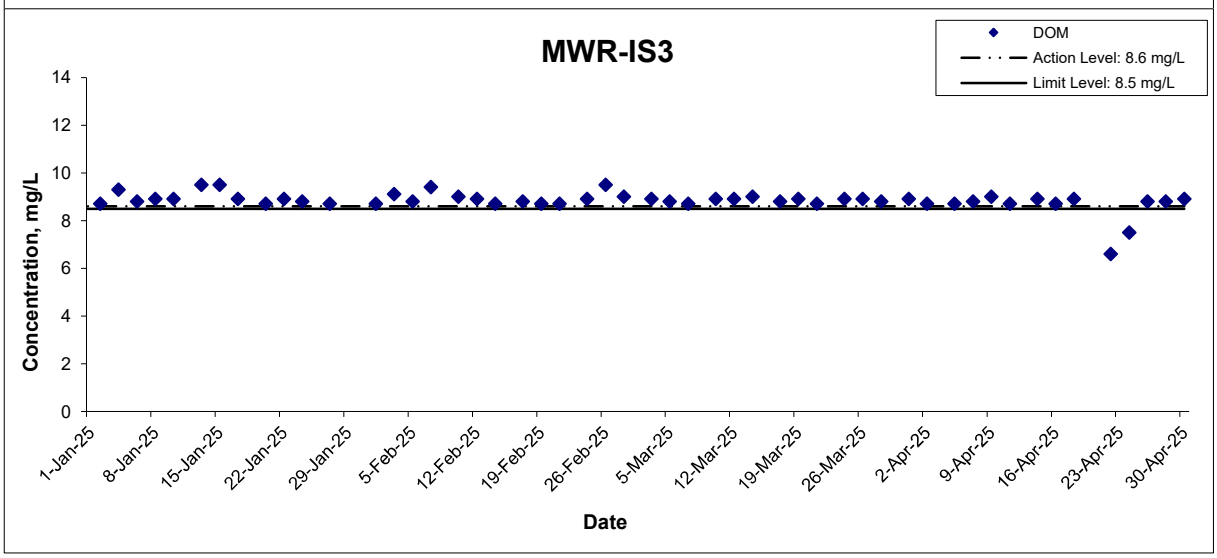


Title	Contract No. NDO 04/2019 Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas Graphical Presentation of Water Quality Monitoring Results	Scale N.T.S	Project No. WMA20002	WELLAB 匯力 consulting . testing . research
		Date Apr 25	Appendix G	

Dissolved Oxygen (Middle)

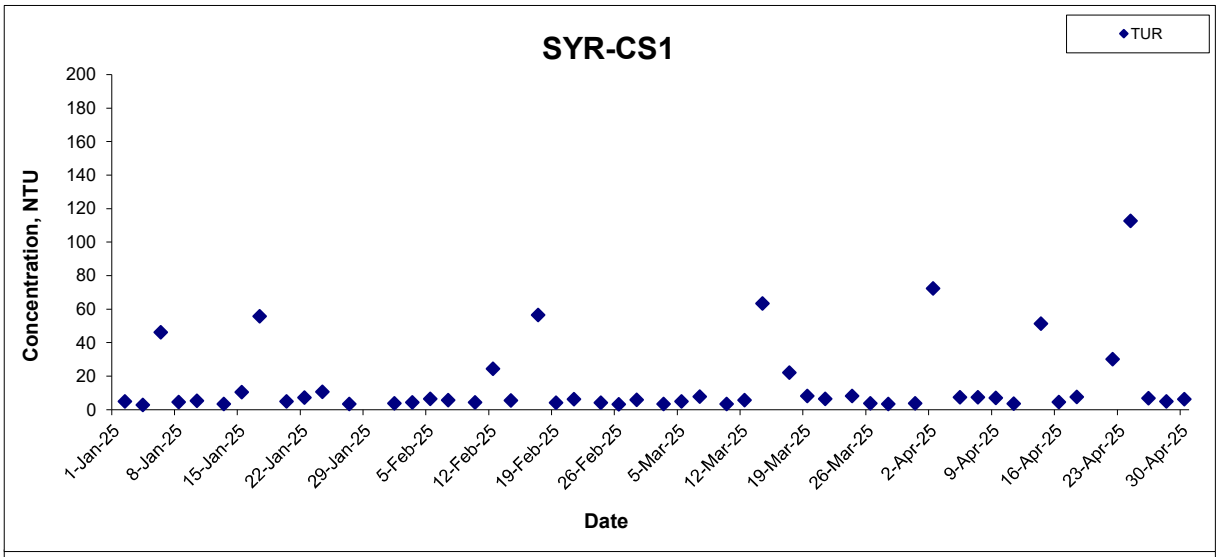


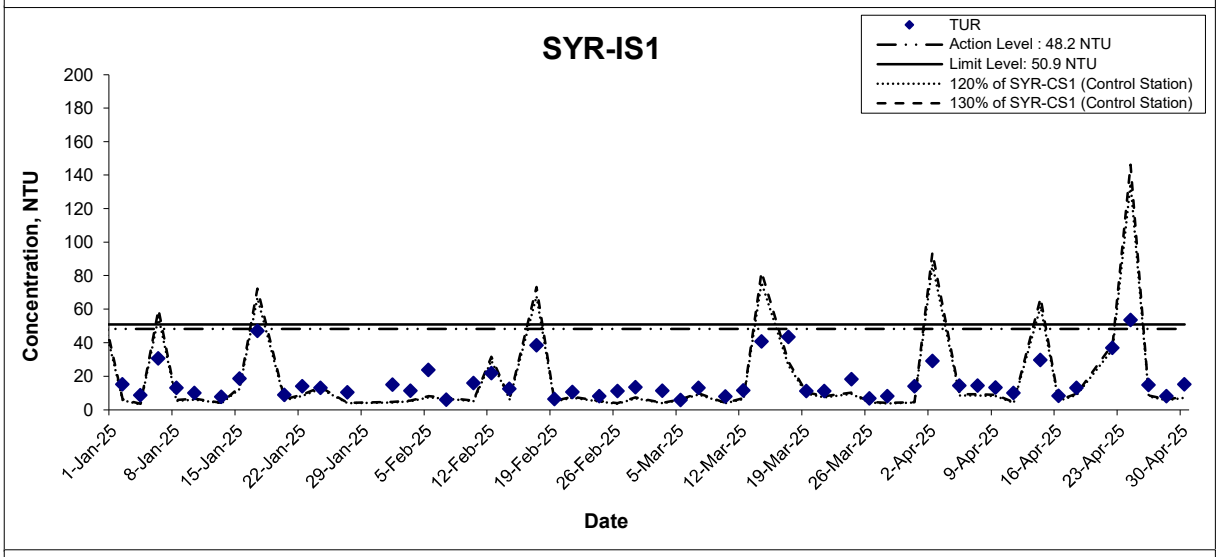


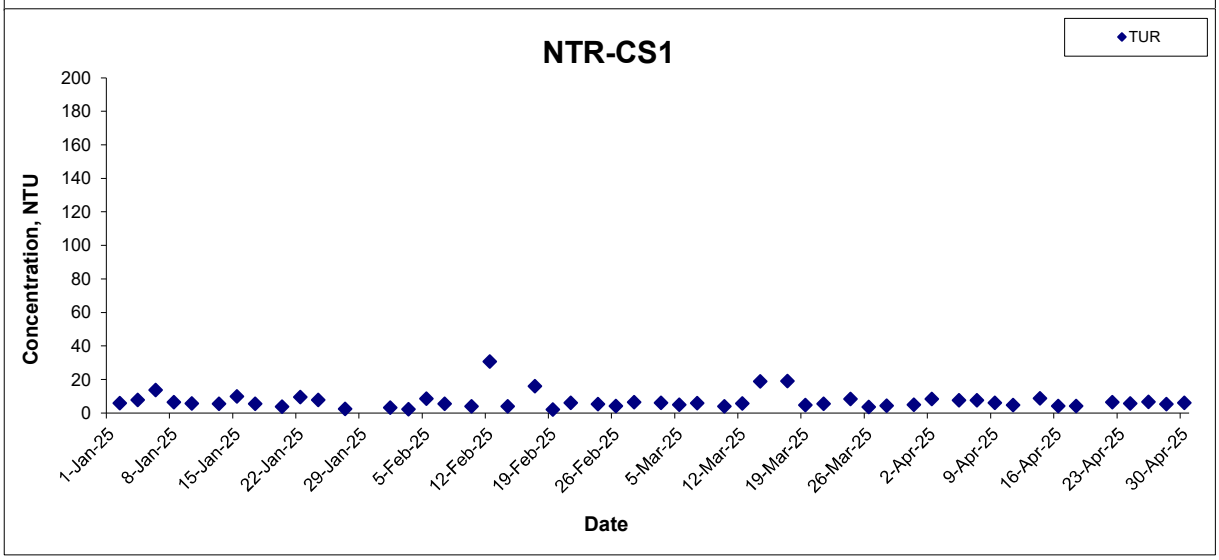


Title	Contract No. NDO 04/2019 Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas Graphical Presentation of Water Quality Monitoring Results	Scale N.T.S	Project No. WMA20002	WELLAB 匯力 consulting . testing . research
		Date Apr 25	Appendix G	

Turbidity (Depth-averaged)

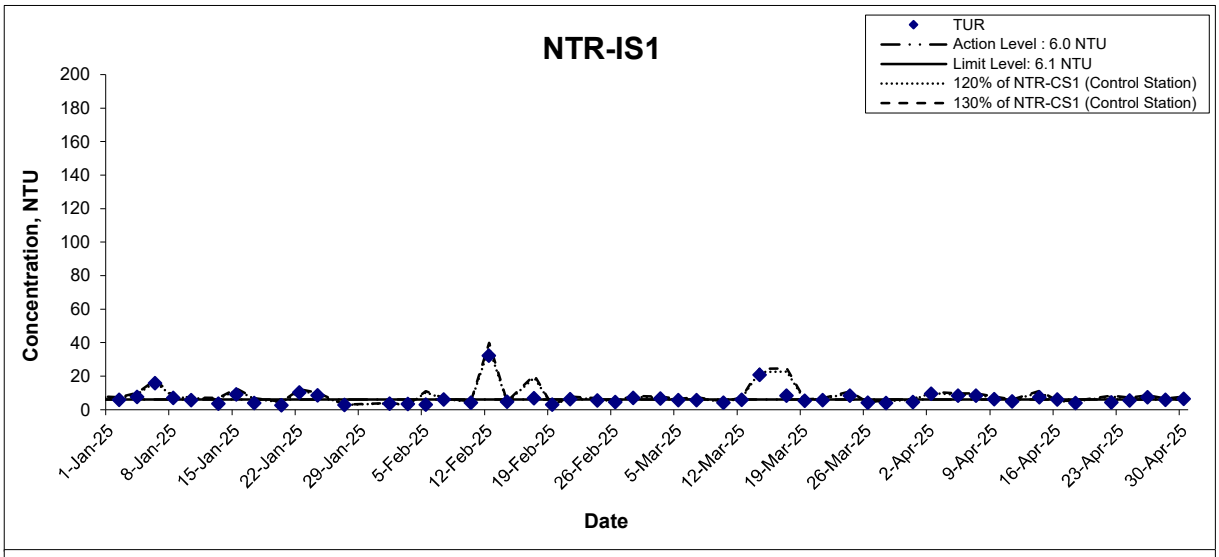


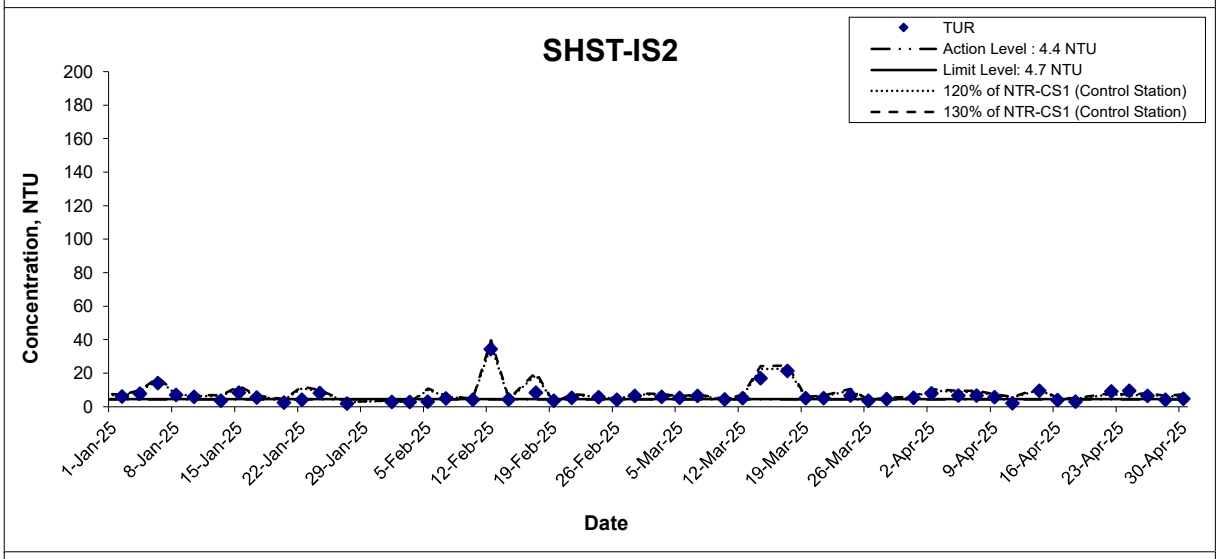


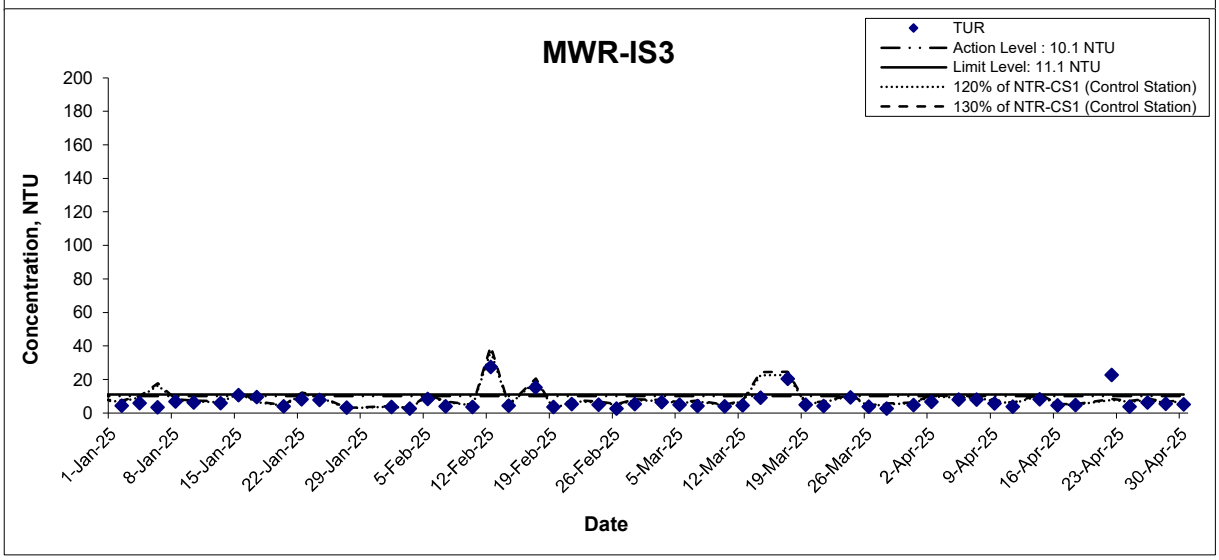


Title	Contract No. NDO 04/2019 Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas Graphical Presentation of Water Quality Monitoring Results	Scale N.T.S	Project No. WMA20002	WELLAB 匯力 consulting . testing . research
		Date Apr 25	Appendix G	

Turbidity (Depth-averaged)







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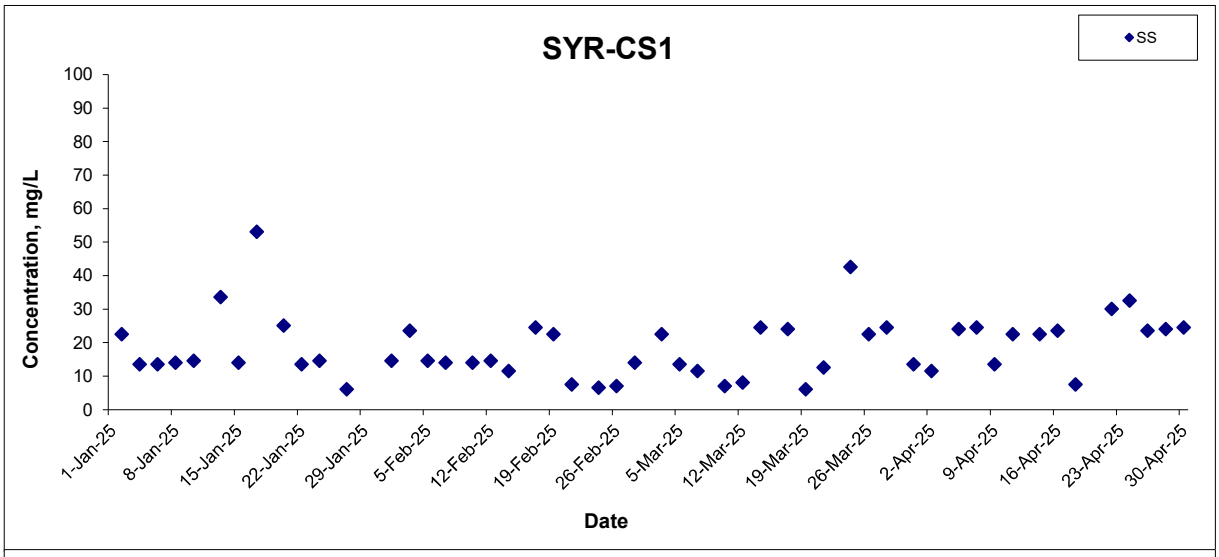
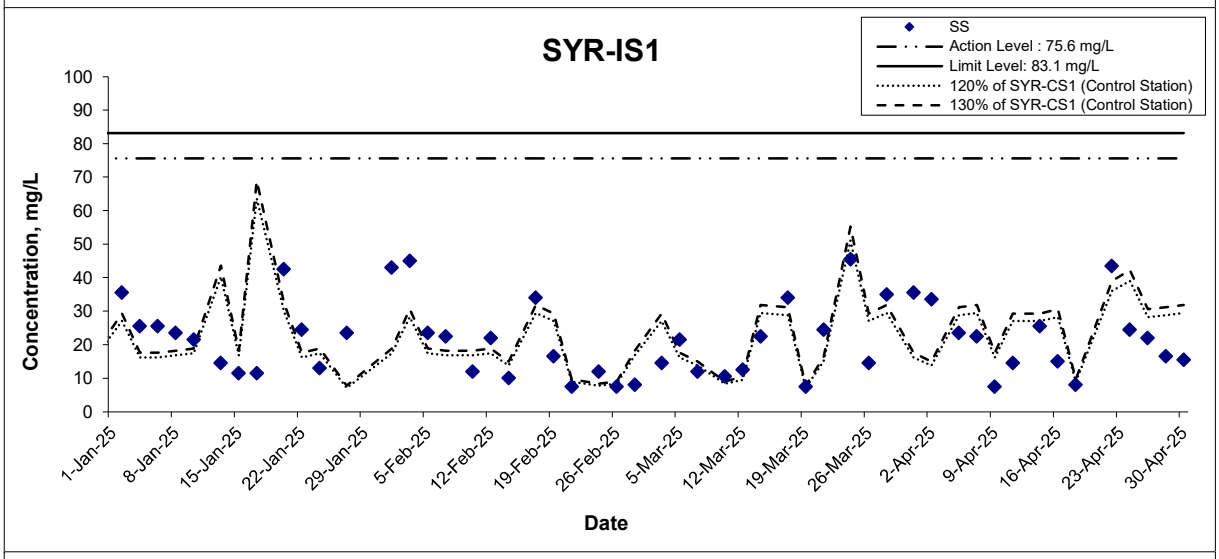
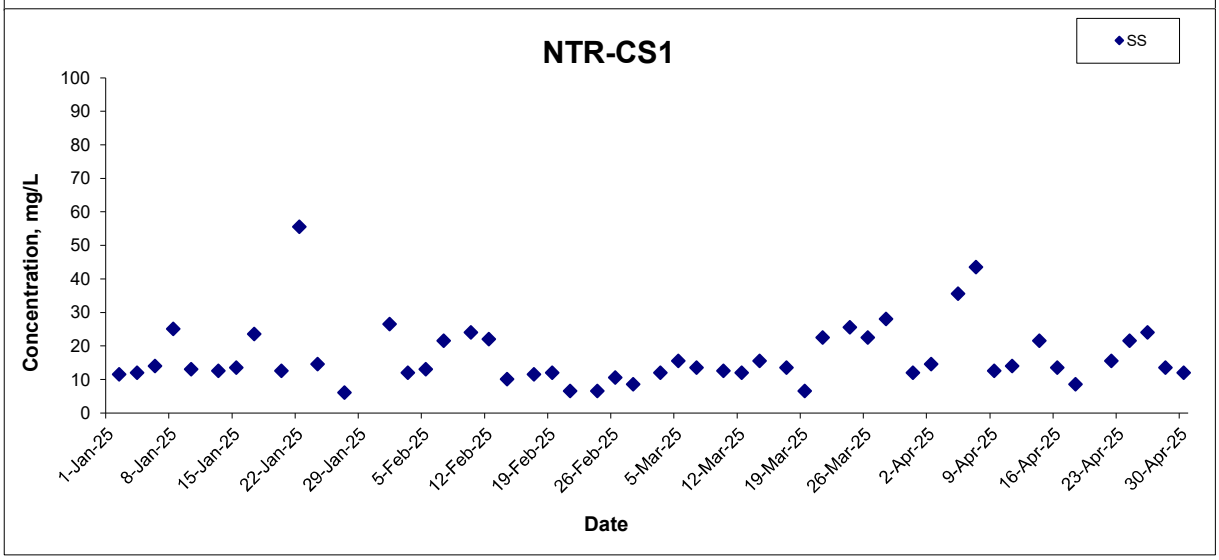
		Date Apr 25	Appendix G	

Suspended Solids (Depth-averaged)







Title	Contract No. NDO 04/2019 Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas Graphical Presentation of Water Quality Monitoring Results	Scale N.T.S	Project No. WMA20002	WELLAB 匯力 consulting . testing . research
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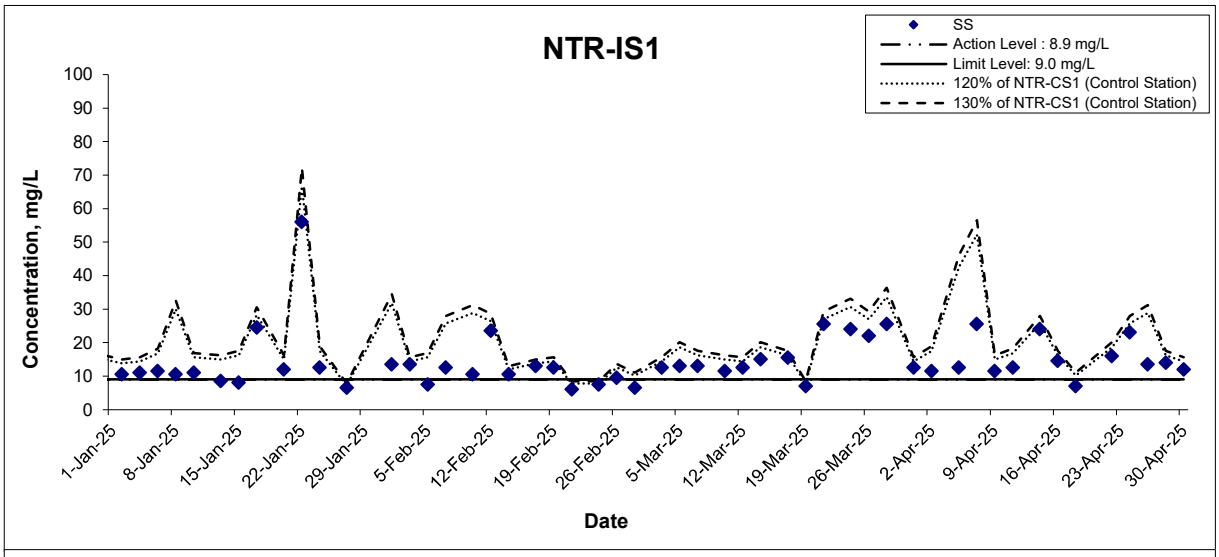
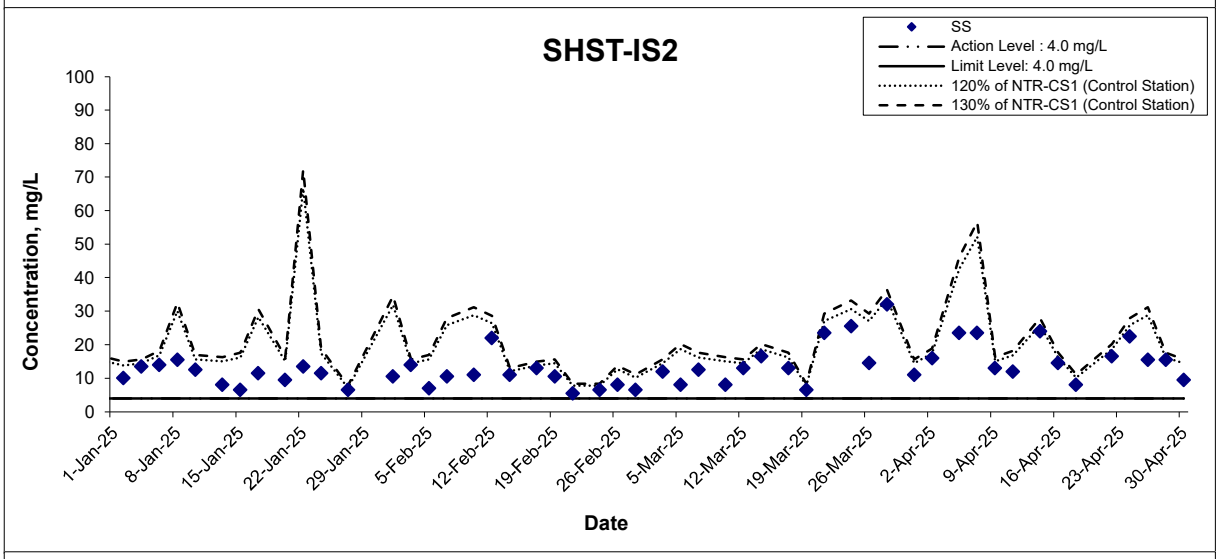
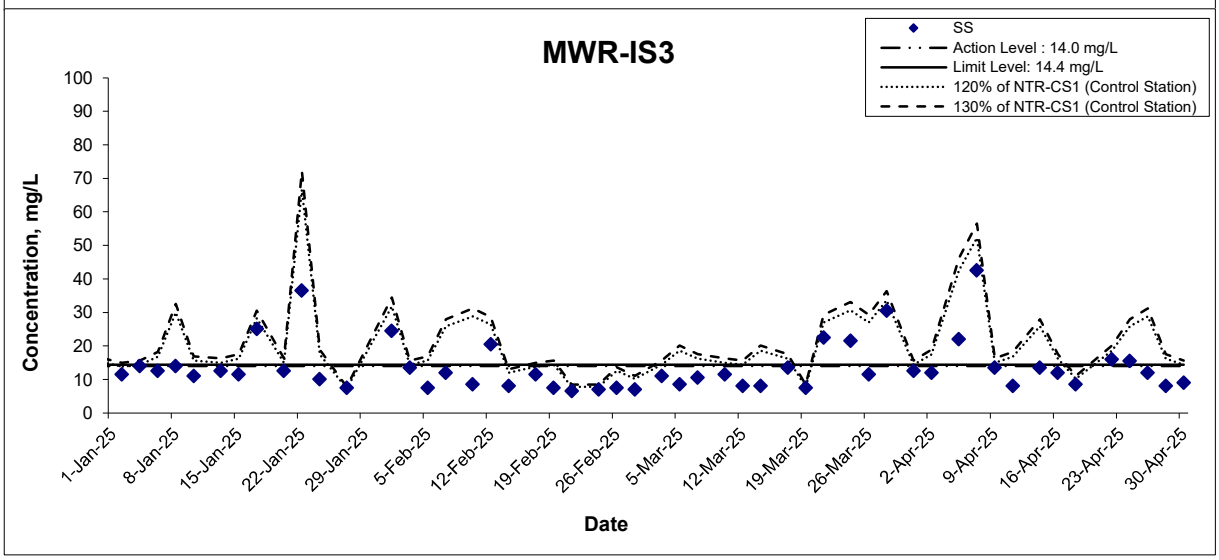
Suspended Solids (Depth-averaged)







Title	Contract No. NDO 04/2019 Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas Graphical Presentation of Water Quality Monitoring Results	Scale N.T.S	Project No. WMA20002	WELLAB 匯力 consulting . testing . research
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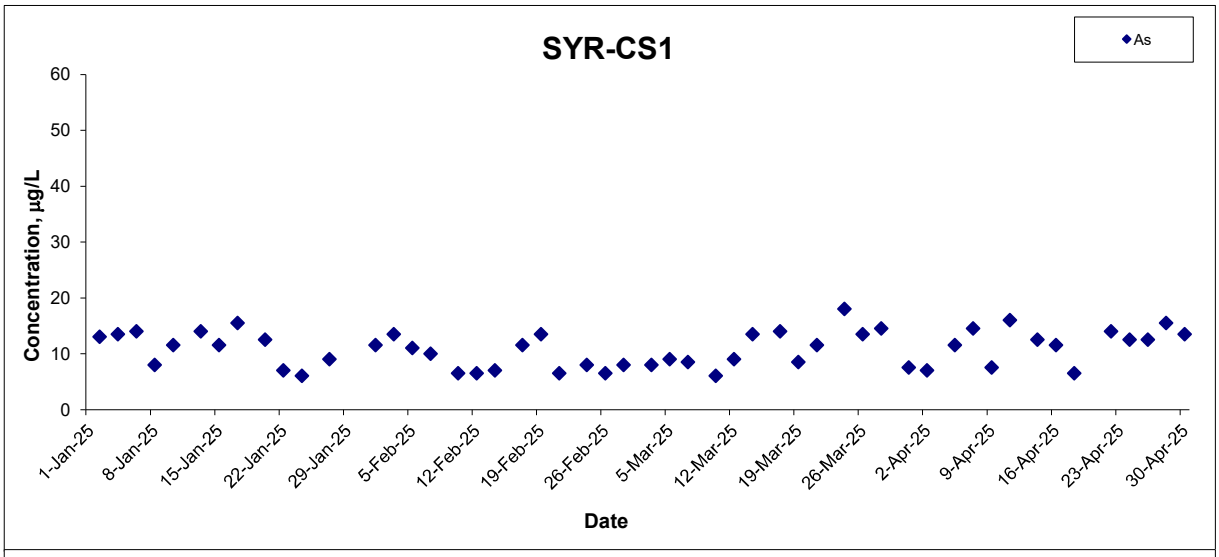
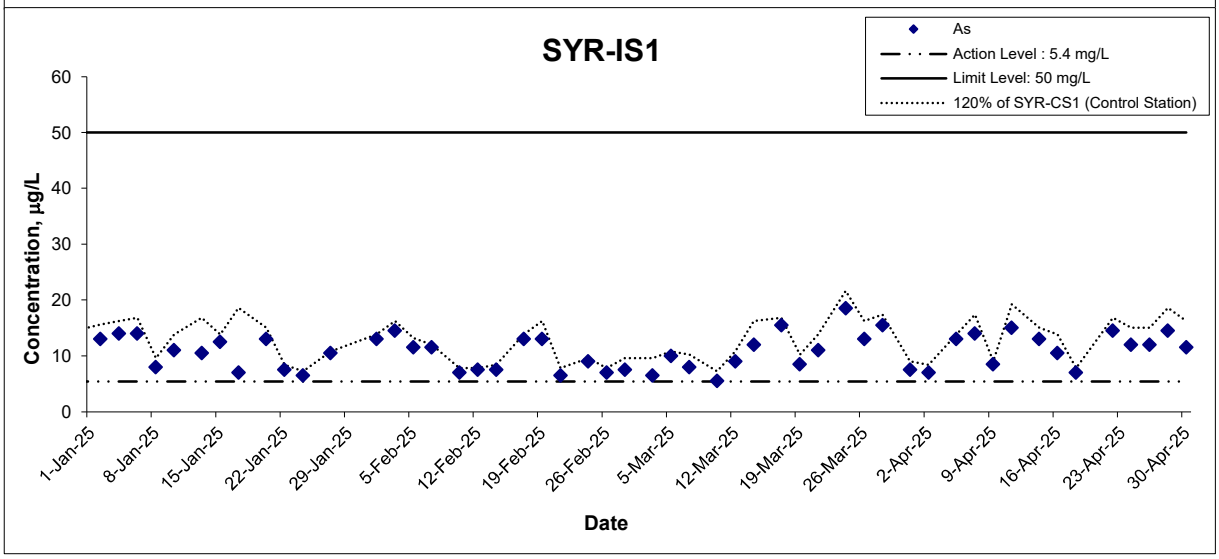
Arsenic (Depth-averaged)





Title	Contract No. NDO 04/2019 Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas Graphical Presentation of Water Quality Monitoring Results	Scale N.T.S	Project No. WMA20002	WELLAB 匯力 consulting . testing . research
		Date Apr 25	Appendix G	

APPENDIX H
LABORATORY TESTING REPORTS FOR LABORATORY ANALYSIS

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WELLAB LIMITED
Room 1714, Technology Park,
18 On Lai Street, Shatin,
New Territories, Hong Kong.
Tel: 2898 7388 Fax: 2898 7076
Website: http://www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

ATTN: **Mr. Marco Ma**

Report No.:	41943
Date of Issue:	2025-04-09
Date Received:	2025-04-02
Date Tested:	2025-04-02
Date Completed:	2025-04-09
Page:	1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 41943
Project No. : WMA20002
Project Name : Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Custody No. : WMA20002/250402
Sampling Date : 2025-04-02

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L
2	Arsenic	In-house method SOP022 (ICP-AES) and SOP076 (ICP-MS)	1 μg/L

Results:

Sample ID	SYR-CS1-a	SYR-CS1-b	SYR-IS1-a	SYR-IS1-b
Sample No.	41943-2	41943-3	41943-5	41943-6
Total Suspended Solids dried at 103-105°C (mg/L)	11	12	34	33
Arsenic (μg/L)	7	7	7	7

Remarks: 1) < = less than

**********END OF REPORT**********

PREPARED AND CHECKED BY:
For and On Behalf of **WELLAB Ltd.**

PATRICK TSE
General Manager

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18 On Lai Street, Shatin,
New Territories, Hong Kong.
Tel: 2898 7388 Fax: 2898 7076
Website: http://www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

ATTN: **Mr. Marco Ma**

Report No.:	41943A
Date of Issue:	2025-04-09
Date Received:	2025-04-02
Date Tested:	2025-04-02
Date Completed:	2025-04-09
Page:	1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 41943A
Project No. : WMA20002
Project Name : Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Custody No. : WMA20002/250402
Sampling Date : 2025-04-02

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L

Results:

Sample ID	NTR-CS1-a	NTR-CS1-b	NTR-IS1-a	NTR-IS1-b
Sample No.	41943-8	41943-9	41943-11	41943-12
Total Suspended Solids dried at 103-105°C (mg/L)	14	15	12	11

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	41943-14	41943-15	41943-17	41943-18
Total Suspended Solids dried at 103-105°C (mg/L)	16	16	12	12

Remarks: 1) <= less than

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General Manager

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TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

ATTN: **Mr. Marco Ma**

Report No.:	41952
Date of Issue:	2025-04-10
Date Received:	2025-04-05
Date Tested:	2025-04-05
Date Completed:	2025-04-10
Page:	1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 41952
Project No. : WMA20002
Project Name : Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Custody No. : WMA20002/250405
Sampling Date : 2025-04-05

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L
2	Arsenic	In-house method SOP022 (ICP-AES) and SOP076 (ICP-MS)	1 μg/L

Results:

Sample ID	SYR-CS1-a	SYR-CS1-b	SYR-IS1-a	SYR-IS1-b
Sample No.	41952-2	41952-3	41952-5	41952-6
Total Suspended Solids dried at 103-105°C (mg/L)	24	24	23	24
Arsenic (μg/L)	12	11	13	13

Remarks: 1) < = less than

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General Manager

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TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

ATTN: **Mr. Marco Ma**

Report No.:	41952A
Date of Issue:	2025-04-10
Date Received:	2025-04-05
Date Tested:	2025-04-05
Date Completed:	2025-04-10
Page:	1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 41952A
Project No. : WMA20002
Project Name : Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Custody No. : WMA20002/250405
Sampling Date : 2025-04-05

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L

Results:

Sample ID	NTR-CS1-a	NTR-CS1-b	NTR-IS1-a	NTR-IS1-b
Sample No.	41952-8	41952-9	41952-11	41952-12
Total Suspended Solids dried at 103-105°C (mg/L)	36	35	12	13

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	41952-14	41952-15	41952-17	41952-18
Total Suspended Solids dried at 103-105°C (mg/L)	24	23	22	22

Remarks: 1) < = less than

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General Manager

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Website: http://www.wellab.com.hk

TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

ATTN: **Mr. Marco Ma**

Report No.:	41986
Date of Issue:	2025-04-11
Date Received:	2025-04-07
Date Tested:	2025-04-07
Date Completed:	2025-04-11
Page:	1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 41986
Project No. : WMA20002
Project Name : Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Custody No. : WMA20002/250407
Sampling Date : 2025-04-07

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L
2	Arsenic	In-house method SOP022 (ICP-AES) and SOP076 (ICP-MS)	1 μg/L

Results:

Sample ID	SYR-CS1-a	SYR-CS1-b	SYR-IS1-a	SYR-IS1-b
Sample No.	41986-2	41986-3	41986-5	41986-6
Total Suspended Solids dried at 103-105°C (mg/L)	24	25	23	22
Arsenic (μg/L)	14	15	14	14

Remarks: 1) < = less than

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TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

ATTN: **Mr. Marco Ma**

Report No.:	41986A
Date of Issue:	2025-04-11
Date Received:	2025-04-07
Date Tested:	2025-04-07
Date Completed:	2025-04-11
Page:	1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 41986A
Project No. : WMA20002
Project Name : Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Custody No. : WMA20002/250407
Sampling Date : 2025-04-07

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L

Results:

Sample ID	NTR-CS1-a	NTR-CS1-b	NTR-IS1-a	NTR-IS1-b
Sample No.	41986-8	41986-9	41986-11	41986-12
Total Suspended Solids dried at 103-105°C (mg/L)	44	43	26	25

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	41986-14	41986-15	41986-17	41986-18
Total Suspended Solids dried at 103-105°C (mg/L)	24	23	43	42

Remarks: 1) < = less than

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General Manager

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TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

ATTN: **Mr. Marco Ma**

Report No.:	41996
Date of Issue:	2025-04-15
Date Received:	2025-04-09
Date Tested:	2025-04-09
Date Completed:	2025-04-15
Page:	1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 41996
Project No. : WMA20002
Project Name : Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Custody No. : WMA20002/250409
Sampling Date : 2025-04-09

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L
2	Arsenic	In-house method SOP022 (ICP-AES) and SOP076 (ICP-MS)	1 μg/L

Results:

Sample ID	SYR-CS1-a	SYR-CS1-b	SYR-IS1-a	SYR-IS1-b
Sample No.	41996-2	41996-3	41996-5	41996-6
Total Suspended Solids dried at 103-105°C (mg/L)	14	13	8	7
Arsenic (μg/L)	7	8	8	9

Remarks: 1) < = less than

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TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
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Shatin, N.T.

ATTN: **Mr. Marco Ma**

Report No.:	41996A
Date of Issue:	2025-04-15
Date Received:	2025-04-09
Date Tested:	2025-04-09
Date Completed:	2025-04-15
Page:	1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 41996A
Project No. : WMA20002
Project Name : Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Custody No. : WMA20002/250409
Sampling Date : 2025-04-09

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L

Results:

Sample ID	NTR-CS1-a	NTR-CS1-b	NTR-IS1-a	NTR-IS1-b
Sample No.	41996-8	41996-9	41996-11	41996-12
Total Suspended Solids dried at 103-105°C (mg/L)	12	13	11	12

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	41996-14	41996-15	41996-17	41996-18
Total Suspended Solids dried at 103-105°C (mg/L)	14	12	13	14

Remarks: 1) < = less than

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APPLICANT: **Wellab Limited (EM&A Department)**
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ATTN: **Mr. Marco Ma**

Report No.:	42007
Date of Issue:	2025-04-17
Date Received:	2025-04-11
Date Tested:	2025-04-11
Date Completed:	2025-04-17
Page:	1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 42007
Project No. : WMA20002
Project Name : Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Custody No. : WMA20002/250411
Sampling Date : 2025-04-11

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L
2	Arsenic	In-house method SOP022 (ICP-AES) and SOP076 (ICP-MS)	1 μg/L

Results:

Sample ID	SYR-CS1-a	SYR-CS1-b	SYR-IS1-a	SYR-IS1-b
Sample No.	42007-2	42007-3	42007-5	42007-6
Total Suspended Solids dried at 103-105°C (mg/L)	23	22	14	15
Arsenic (μg/L)	16	16	15	15

Remarks: 1) < = less than

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ATTN: **Mr. Marco Ma**

Report No.:	42007A
Date of Issue:	2025-04-17
Date Received:	2025-04-11
Date Tested:	2025-04-11
Date Completed:	2025-04-17
Page:	1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 42007A
Project No. : WMA20002
Project Name : Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Custody No. : WMA20002/250411
Sampling Date : 2025-04-11

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L

Results:

Sample ID	NTR-CS1-a	NTR-CS1-b	NTR-IS1-a	NTR-IS1-b
Sample No.	42007-8	42007-9	42007-11	42007-12
Total Suspended Solids dried at 103-105°C (mg/L)	14	14	13	12

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	42007-14	42007-15	42007-17	42007-18
Total Suspended Solids dried at 103-105°C (mg/L)	12	12	8	8

Remarks: 1) < = less than

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APPLICANT: **Wellab Limited (EM&A Department)**
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ATTN: **Mr. Marco Ma**

Report No.:	42026
Date of Issue:	2025-04-22
Date Received:	2025-04-14
Date Tested:	2025-04-14
Date Completed:	2025-04-22
Page:	1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 42026
Project No. : WMA20002
Project Name : Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Custody No. : WMA20002/250414
Sampling Date : 2025-04-14

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L
2	Arsenic	In-house method SOP022 (ICP-AES) and SOP076 (ICP-MS)	1 μg/L

Results:

Sample ID	SYR-CS1-a	SYR-CS1-b	SYR-IS1-a	SYR-IS1-b
Sample No.	42026-2	42026-3	42026-5	42026-6
Total Suspended Solids dried at 103-105°C (mg/L)	23	22	26	25
Arsenic (μg/L)	13	12	13	13

Remarks: 1) < = less than

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ATTN: **Mr. Marco Ma**

Report No.:	42026A
Date of Issue:	2025-04-22
Date Received:	2025-04-14
Date Tested:	2025-04-14
Date Completed:	2025-04-22
Page:	1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 42026A
Project No. : WMA20002
Project Name : Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Custody No. : WMA20002/250414
Sampling Date : 2025-04-14

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L

Results:

Sample ID	NTR-CS1-a	NTR-CS1-b	NTR-IS1-a	NTR-IS1-b
Sample No.	42026-8	42026-9	42026-11	42026-12
Total Suspended Solids dried at 103-105°C (mg/L)	21	22	24	24

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	42026-14	42026-15	42026-17	42026-18
Total Suspended Solids dried at 103-105°C (mg/L)	23	25	14	13

Remarks: 1) < = less than

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ATTN: **Mr. Marco Ma**

Report No.:	42036
Date of Issue:	2025-04-24
Date Received:	2025-04-16
Date Tested:	2025-04-16
Date Completed:	2025-04-24
Page:	1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 42036
Project No. : WMA20002
Project Name : Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Custody No. : WMA20002/250416
Sampling Date : 2025-04-16

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L
2	Arsenic	In-house method SOP022 (ICP-AES) and SOP076 (ICP-MS)	1 μg/L

Results:

Sample ID	SYR-CS1-a	SYR-CS1-b	SYR-IS1-a	SYR-IS1-b
Sample No.	42036-2	42036-3	42036-5	42036-6
Total Suspended Solids dried at 103-105°C (mg/L)	23	24	15	15
Arsenic (μg/L)	12	11	11	10

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ATTN: **Mr. Marco Ma**

Report No.:	42036A
Date of Issue:	2025-04-24
Date Received:	2025-04-16
Date Tested:	2025-04-16
Date Completed:	2025-04-24
Page:	1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 42036A
Project No. : WMA20002
Project Name : Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Custody No. : WMA20002/250416
Sampling Date : 2025-04-16

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L

Results:

Sample ID	NTR-CS1-a	NTR-CS1-b	NTR-IS1-a	NTR-IS1-b
Sample No.	42036-8	42036-9	42036-11	42036-12
Total Suspended Solids dried at 103-105°C (mg/L)	14	13	14	15

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	42036-14	42036-15	42036-17	42036-18
Total Suspended Solids dried at 103-105°C (mg/L)	15	14	12	12

Remarks: 1) < = less than

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APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1714, Technology Park,
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ATTN: **Mr. Marco Ma**

Report No.:	42048
Date of Issue:	2025-04-25
Date Received:	2025-04-18
Date Tested:	2025-04-18
Date Completed:	2025-04-25
Page:	1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 42048
Project No. : WMA20002
Project Name : Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Custody No. : WMA20002/250418
Sampling Date : 2025-04-18

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L
2	Arsenic	In-house method SOP022 (ICP-AES) and SOP076 (ICP-MS)	1 μg/L

Results:

Sample ID	SYR-CS1-a	SYR-CS1-b	SYR-IS1-a	SYR-IS1-b
Sample No.	42048-2	42048-3	42048-5	42048-6
Total Suspended Solids dried at 103-105°C (mg/L)	8	7	8	8
Arsenic (μg/L)	7	6	7	7

Remarks: 1) < = less than

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TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
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Shatin, N.T.

ATTN: **Mr. Marco Ma**

Report No.:	42048A
Date of Issue:	2025-04-25
Date Received:	2025-04-18
Date Tested:	2025-04-18
Date Completed:	2025-04-25
Page:	1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 42048A
Project No. : WMA20002
Project Name : Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Custody No. : WMA20002/250418
Sampling Date : 2025-04-18

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L

Results:

Sample ID	NTR-CS1-a	NTR-CS1-b	NTR-IS1-a	NTR-IS1-b
Sample No.	42048-8	42048-9	42048-11	42048-12
Total Suspended Solids dried at 103-105°C (mg/L)	9	8	7	7

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	42048-14	42048-15	42048-17	42048-18
Total Suspended Solids dried at 103-105°C (mg/L)	8	8	9	8

Remarks: 1) < = less than

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APPLICANT: **Wellab Limited (EM&A Department)**
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Shatin, N.T.

ATTN: **Mr. Marco Ma**

Report No.:	42052
Date of Issue:	2025-04-28
Date Received:	2025-04-22
Date Tested:	2025-04-22
Date Completed:	2025-04-28
Page:	1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 42052
Project No. : WMA20002
Project Name : Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Custody No. : WMA20002/250422
Sampling Date : 2025-04-22

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L
2	Arsenic	In-house method SOP022 (ICP-AES) and SOP076 (ICP-MS)	1 μg/L

Results:

Sample ID	SYR-CS1-a	SYR-CS1-b	SYR-IS1-a	SYR-IS1-b
Sample No.	42052-2	42052-3	42052-5	42052-6
Total Suspended Solids dried at 103-105°C (mg/L)	36	34	44	43
Arsenic (μg/L)	14	14	15	14

Remarks: 1) < = less than

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APPLICANT: **Wellab Limited (EM&A Department)**
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ATTN: **Mr. Marco Ma**

Report No.:	42052A
Date of Issue:	2025-04-28
Date Received:	2025-04-22
Date Tested:	2025-04-22
Date Completed:	2025-04-28
Page:	1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 42052A
Project No. : WMA20002
Project Name : Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Custody No. : WMA20002/250422
Sampling Date : 2025-04-22

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L

Results:

Sample ID	NTR-CS1-a	NTR-CS1-b	NTR-IS1-a	NTR-IS1-b
Sample No.	42052-8	42052-9	42052-11	42052-12
Total Suspended Solids dried at 103-105°C (mg/L)	15	16	16	16

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	42052-14	42052-15	42052-17	42052-18
Total Suspended Solids dried at 103-105°C (mg/L)	16	17	16	16

Remarks: 1) < = less than

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APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

ATTN: **Mr. Marco Ma**

Report No.:	42062
Date of Issue:	2025-04-30
Date Received:	2025-04-24
Date Tested:	2025-04-24
Date Completed:	2025-04-30
Page:	1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 42062
Project No. : WMA20002
Project Name : Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Custody No. : WMA20002/250424
Sampling Date : 2025-04-24

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L
2	Arsenic	In-house method SOP022 (ICP-AES) and SOP076 (ICP-MS)	1 μg/L

Results:

Sample ID	SYR-CS1-a	SYR-CS1-b	SYR-IS1-a	SYR-IS1-b
Sample No.	42062-2	42062-3	42062-5	42062-6
Total Suspended Solids dried at 103-105°C (mg/L)	33	32	25	24
Arsenic (μg/L)	13	12	12	12

Remarks: 1) < = less than

**********END OF REPORT**********

PREPARED AND CHECKED BY:
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General Manager

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TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

ATTN: **Mr. Marco Ma**

Report No.:	42062A
Date of Issue:	2025-04-30
Date Received:	2025-04-24
Date Tested:	2025-04-24
Date Completed:	2025-04-30
Page:	1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 42062A
Project No. : WMA20002
Project Name : Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Custody No. : WMA20002/250424
Sampling Date : 2025-04-24

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L

Results:

Sample ID	NTR-CS1-a	NTR-CS1-b	NTR-IS1-a	NTR-IS1-b
Sample No.	42062-8	42062-9	42062-11	42062-12
Total Suspended Solids dried at 103-105°C (mg/L)	21	22	23	23

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	42062-14	42062-15	42062-17	42062-18
Total Suspended Solids dried at 103-105°C (mg/L)	22	23	15	16

Remarks: 1) < = less than

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APPLICANT: **Wellab Limited (EM&A Department)**
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Shatin, N.T.

ATTN: **Mr. Marco Ma**

Report No.:	42072
Date of Issue:	2025-05-02
Date Received:	2025-04-26
Date Tested:	2025-04-26
Date Completed:	2025-05-02
Page:	1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 42072
Project No. : WMA20002
Project Name : Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Custody No. : WMA20002/250426
Sampling Date : 2025-04-26

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L
2	Arsenic	In-house method SOP022 (ICP-AES) and SOP076 (ICP-MS)	1 μg/L

Results:

Sample ID	SYR-CS1-a	SYR-CS1-b	SYR-IS1-a	SYR-IS1-b
Sample No.	42072-2	42072-3	42072-5	42072-6
Total Suspended Solids dried at 103-105°C (mg/L)	23	24	22	22
Arsenic (μg/L)	12	13	12	12

Remarks: 1) < = less than

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Shatin, N.T.

ATTN: **Mr. Marco Ma**

Report No.:	42072A
Date of Issue:	2025-05-02
Date Received:	2025-04-26
Date Tested:	2025-04-26
Date Completed:	2025-05-02
Page:	1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 42072A
Project No. : WMA20002
Project Name : Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Custody No. : WMA20002/250426
Sampling Date : 2025-04-26

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L

Results:

Sample ID	NTR-CS1-a	NTR-CS1-b	NTR-IS1-a	NTR-IS1-b
Sample No.	42072-8	42072-9	42072-11	42072-12
Total Suspended Solids dried at 103-105°C (mg/L)	23	25	14	13

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	42072-14	42072-15	42072-17	42072-18
Total Suspended Solids dried at 103-105°C (mg/L)	15	16	12	12

Remarks: 1) < = less than

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APPLICANT: **Wellab Limited (EM&A Department)**
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ATTN: **Mr. Marco Ma**

Report No.:	42106
Date of Issue:	2025-05-06
Date Received:	2025-04-28
Date Tested:	2025-04-28
Date Completed:	2025-05-06
Page:	1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 42106
Project No. : WMA20002
Project Name : Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Custody No. : WMA20002/250428
Sampling Date : 2025-04-28

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L
2	Arsenic	In-house method SOP022 (ICP-AES) and SOP076 (ICP-MS)	1 μg/L

Results:

Sample ID	SYR-CS1-a	SYR-CS1-b	SYR-IS1-a	SYR-IS1-b
Sample No.	42106-2	42106-3	42106-5	42106-6
Total Suspended Solids dried at 103-105°C (mg/L)	24	24	16	17
Arsenic (μg/L)	16	15	15	14

Remarks: 1) < = less than

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ATTN: **Mr. Marco Ma**

Report No.:	42106A
Date of Issue:	2025-05-06
Date Received:	2025-04-28
Date Tested:	2025-04-28
Date Completed:	2025-05-06
Page:	1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 42106A
Project No. : WMA20002
Project Name : Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Custody No. : WMA20002/250428
Sampling Date : 2025-04-28

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L

Results:

Sample ID	NTR-CS1-a	NTR-CS1-b	NTR-IS1-a	NTR-IS1-b
Sample No.	42106-8	42106-9	42106-11	42106-12
Total Suspended Solids dried at 103-105°C (mg/L)	14	13	14	14

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	42106-14	42106-15	42106-17	42106-18
Total Suspended Solids dried at 103-105°C (mg/L)	16	15	8	8

Remarks: 1) < = less than

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ATTN: **Mr. Marco Ma**

Report No.:	42115
Date of Issue:	2025-05-06
Date Received:	2025-04-30
Date Tested:	2025-04-30
Date Completed:	2025-05-06
Page:	1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 42115
Project No. : WMA20002
Project Name : Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Custody No. : WMA20002/250430
Sampling Date : 2025-04-30

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L
2	Arsenic	In-house method SOP022 (ICP-AES) and SOP076 (ICP-MS)	1 μg/L

Results:

Sample ID	SYR-CS1-a	SYR-CS1-b	SYR-IS1-a	SYR-IS1-b
Sample No.	42115-2	42115-3	42115-5	42115-6
Total Suspended Solids dried at 103-105°C (mg/L)	25	24	15	16
Arsenic (μg/L)	14	13	11	12

Remarks: 1) <= less than

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APPLICANT: **Wellab Limited (EM&A Department)**
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ATTN: **Mr. Marco Ma**

Report No.:	42115A
Date of Issue:	2025-05-06
Date Received:	2025-04-30
Date Tested:	2025-04-30
Date Completed:	2025-05-06
Page:	1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 42115A
Project No. : WMA20002
Project Name : Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Custody No. : WMA20002/250430
Sampling Date : 2025-04-30

Tests Requested & Methodology:

Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L

Results:

Sample ID	NTR-CS1-a	NTR-CS1-b	NTR-IS1-a	NTR-IS1-b
Sample No.	42115-8	42115-9	42115-11	42115-12
Total Suspended Solids dried at 103-105°C (mg/L)	11	13	12	12

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	42115-14	42115-15	42115-17	42115-18
Total Suspended Solids dried at 103-105°C (mg/L)	10	9	9	9

Remarks: 1) < = less than

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APPENDIX I
QUALITY CONTROL REPORTS FOR SS AND ARSENIC LABORATORY ANALYSIS

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TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1714, Technology Park,
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Report No.:	QC41943
Date of Issue:	2025-04-09
Date Received:	2025-04-02
Date Tested:	2025-04-02
Date Completed:	2025-04-09

ATTN: **Mr. Marco Ma**

Page: 1 of 1

QC report

Method Blank

Parameter	Method Blank 1	Method Blank 2	Acceptance
Total Suspended Solids (mg/L)	<0.5	<0.5	<0.5
Arsenic (μg/L)	<0.2	N/A	<0.2

Method QC

Parameter	MQC1	MQC2	Acceptance
Total Suspended Solids (%)	96	103	80-120
Arsenic (%)	101	N/A	80-120

Sample Spike

Parameter	Sample Spike 1	Sample Spike 2	Acceptance
Total Suspended Solids (%)	N/A	N/A	N/A
Arsenic (%)	96	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	2	2	RPD≤5%
Arsenic (%)	6	N/A	RPD≤20%

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 41943.

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APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1714, Technology Park,
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Report No.:	QC41952
Date of Issue:	2025-04-10
Date Received:	2025-04-05
Date Tested:	2025-04-05
Date Completed:	2025-04-10

ATTN: **Mr. Marco Ma**

QC report

Method Blank

Parameter	Method Blank 1	Method Blank 2	Acceptance
Total Suspended Solids (mg/L)	<0.5	<0.5	<0.5
Arsenic (μg/L)	<0.2	N/A	<0.2

Method QC

Parameter	MQC1	MQC2	Acceptance
Total Suspended Solids (%)	101	101	80-120
Arsenic (%)	96	N/A	80-120

Sample Spike

Parameter	Sample Spike 1	Sample Spike 2	Acceptance
Total Suspended Solids (%)	N/A	N/A	N/A
Arsenic (%)	96	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	1	3	RPD≤5%
Arsenic (%)	8	N/A	RPD≤20%

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 41952.

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APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1714, Technology Park,
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Report No.:	QC41986
Date of Issue:	2025-04-11
Date Received:	2025-04-07
Date Tested:	2025-04-07
Date Completed:	2025-04-11

ATTN: **Mr. Marco Ma**

Page: 1 of 1

QC report

Method Blank

Parameter	Method Blank 1	Method Blank 2	Acceptance
Total Suspended Solids (mg/L)	<0.5	<0.5	<0.5
Arsenic (μg/L)	<0.2	N/A	<0.2

Method QC

Parameter	MQC1	MQC2	Acceptance
Total Suspended Solids (%)	96	96	80-120
Arsenic (%)	103	N/A	80-120

Sample Spike

Parameter	Sample Spike 1	Sample Spike 2	Acceptance
Total Suspended Solids (%)	N/A	N/A	N/A
Arsenic (%)	91	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	2	1	RPD≤5%
Arsenic (%)	6	N/A	RPD≤20%

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 41986.

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APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1714, Technology Park,
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Report No.:	QC41996
Date of Issue:	2025-04-15
Date Received:	2025-04-09
Date Tested:	2025-04-09
Date Completed:	2025-04-15

ATTN: **Mr. Marco Ma**

Page: 1 of 1

QC report

Method Blank

Parameter	Method Blank 1	Method Blank 2	Acceptance
Total Suspended Solids (mg/L)	<0.5	<0.5	<0.5
Arsenic (μg/L)	<0.2	N/A	<0.2

Method QC

Parameter	MQC1	MQC2	Acceptance
Total Suspended Solids (%)	104	105	80-120
Arsenic (%)	92	N/A	80-120

Sample Spike

Parameter	Sample Spike 1	Sample Spike 2	Acceptance
Total Suspended Solids (%)	N/A	N/A	N/A
Arsenic (%)	96	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	1	3	RPD≤5%
Arsenic (%)	6	N/A	RPD≤20%

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 41996.

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APPLICANT: **Wellab Limited (EM&A Department)**
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Report No.:	QC42007
Date of Issue:	2025-04-17
Date Received:	2025-04-09
Date Tested:	2025-04-09
Date Completed:	2025-04-17

ATTN: **Mr. Marco Ma**

Page: 1 of 1

QC report

Method Blank

Parameter	Method Blank 1	Method Blank 2	Acceptance
Total Suspended Solids (mg/L)	<0.5	<0.5	<0.5
Arsenic (μg/L)	<0.2	N/A	<0.2

Method QC

Parameter	MQC1	MQC2	Acceptance
Total Suspended Solids (%)	95	98	80-120
Arsenic (%)	103	N/A	80-120

Sample Spike

Parameter	Sample Spike 1	Sample Spike 2	Acceptance
Total Suspended Solids (%)	N/A	N/A	N/A
Arsenic (%)	91	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	4	4	RPD≤5%
Arsenic (%)	1	N/A	RPD≤20%

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 42007.

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APPLICANT: **Wellab Limited (EM&A Department)**
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Report No.:	QC42026
Date of Issue:	2025-04-22
Date Received:	2025-04-14
Date Tested:	2025-04-14
Date Completed:	2025-04-22

Page: 1 of 1

ATTN: **Mr. Marco Ma**

QC report

Method Blank

Parameter	Method Blank 1	Method Blank 2	Acceptance
Total Suspended Solids (mg/L)	<0.5	<0.5	<0.5
Arsenic (μg/L)	<0.2	N/A	<0.2

Method QC

Parameter	MQC1	MQC2	Acceptance
Total Suspended Solids (%)	111	103	80-120
Arsenic (%)	96	N/A	80-120

Sample Spike

Parameter	Sample Spike 1	Sample Spike 2	Acceptance
Total Suspended Solids (%)	N/A	N/A	N/A
Arsenic (%)	92	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	2	4	RPD≤5%
Arsenic (%)	4	N/A	RPD≤20%

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 42026.

**********END OF REPORT**********

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PATRCIK TSE
General Manager

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TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1714, Technology Park,
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Report No.:	QC42036
Date of Issue:	2025-04-24
Date Received:	2025-04-16
Date Tested:	2025-04-16
Date Completed:	2025-04-24

ATTN: **Mr. Marco Ma**

QC report

Method Blank

Parameter	Method Blank 1	Method Blank 2	Acceptance
Total Suspended Solids (mg/L)	<0.5	<0.5	<0.5
Arsenic (μg/L)	<0.2	N/A	<0.2

Method QC

Parameter	MQC1	MQC2	Acceptance
Total Suspended Solids (%)	106	106	80-120
Arsenic (%)	102	N/A	80-120

Sample Spike

Parameter	Sample Spike 1	Sample Spike 2	Acceptance
Total Suspended Solids (%)	N/A	N/A	N/A
Arsenic (%)	97	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	4	3	RPD≤5%
Arsenic (%)	6	N/A	RPD≤20%

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 42036.

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TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	QC42048
Date of Issue:	2025-04-25
Date Received:	2025-04-18
Date Tested:	2025-04-18
Date Completed:	2025-04-25

ATTN: **Mr. Marco Ma**

Page: 1 of 1

QC report

Method Blank

Parameter	Method Blank 1	Method Blank 2	Acceptance
Total Suspended Solids (mg/L)	<0.5	<0.5	<0.5
Arsenic (μg/L)	<0.2	N/A	<0.2

Method QC

Parameter	MQC1	MQC2	Acceptance
Total Suspended Solids (%)	98	103	80-120
Arsenic (%)	99	N/A	80-120

Sample Spike

Parameter	Sample Spike 1	Sample Spike 2	Acceptance
Total Suspended Solids (%)	N/A	N/A	N/A
Arsenic (%)	93	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	1	1	RPD≤5%
Arsenic (%)	9	N/A	RPD≤20%

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 42048.

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APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1714, Technology Park,
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Report No.:	QC42052
Date of Issue:	2025-04-28
Date Received:	2025-04-22
Date Tested:	2025-04-22
Date Completed:	2025-04-28

Page: 1 of 1

ATTN: **Mr. Marco Ma**

QC report

Method Blank

Parameter	Method Blank 1	Method Blank 2	Acceptance
Total Suspended Solids (mg/L)	<0.5	<0.5	<0.5
Arsenic (μg/L)	<0.2	N/A	<0.2

Method QC

Parameter	MQC1	MQC2	Acceptance
Total Suspended Solids (%)	102	100	80-120
Arsenic (%)	92	N/A	80-120

Sample Spike

Parameter	Sample Spike 1	Sample Spike 2	Acceptance
Total Suspended Solids (%)	N/A	N/A	N/A
Arsenic (%)	96	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	4	1	RPD≤5%
Arsenic (%)	5	N/A	RPD≤20%

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 42052.

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TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1714, Technology Park,
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Report No.:	QC42062
Date of Issue:	2025-04-30
Date Received:	2025-04-24
Date Tested:	2025-04-24
Date Completed:	2025-04-30

ATTN: **Mr. Marco Ma**

Page: 1 of 1

QC report

Method Blank

Parameter	Method Blank 1	Method Blank 2	Acceptance
Total Suspended Solids (mg/L)	<0.5	<0.5	<0.5
Arsenic (μg/L)	<0.2	N/A	<0.2

Method QC

Parameter	MQC1	MQC2	Acceptance
Total Suspended Solids (%)	95	102	80-120
Arsenic (%)	97	N/A	80-120

Sample Spike

Parameter	Sample Spike 1	Sample Spike 2	Acceptance
Total Suspended Solids (%)	N/A	N/A	N/A
Arsenic (%)	92	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	3	2	RPD≤5%
Arsenic (%)	9	N/A	RPD≤20%

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 42062.

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APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1714, Technology Park,
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Shatin, N.T.

Report No.:	QC42072
Date of Issue:	2025-05-02
Date Received:	2025-04-26
Date Tested:	2025-04-26
Date Completed:	2025-05-02

Page: 1 of 1

ATTN: **Mr. Marco Ma**

QC report

Method Blank

Parameter	Method Blank 1	Method Blank 2	Acceptance
Total Suspended Solids (mg/L)	<0.5	<0.5	<0.5
Arsenic (μg/L)	<0.2	N/A	<0.2

Method QC

Parameter	MQC1	MQC2	Acceptance
Total Suspended Solids (%)	98	98	80-120
Arsenic (%)	91	N/A	80-120

Sample Spike

Parameter	Sample Spike 1	Sample Spike 2	Acceptance
Total Suspended Solids (%)	N/A	N/A	N/A
Arsenic (%)	92	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	2	1	RPD≤5%
Arsenic (%)	7	N/A	RPD≤20%

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 42072.

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TEST REPORT

APPLICANT: **Wellab Limited (EM&A Department)**
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	QC42106
Date of Issue:	2025-05-06
Date Received:	2025-04-28
Date Tested:	2025-04-28
Date Completed:	2025-05-06

Page: 1 of 1

ATTN: **Mr. Marco Ma**

QC report

Method Blank

Parameter	Method Blank 1	Method Blank 2	Acceptance
Total Suspended Solids (mg/L)	<0.5	<0.5	<0.5
Arsenic (μg/L)	<0.2	N/A	<0.2

Method QC

Parameter	MQC1	MQC2	Acceptance
Total Suspended Solids (%)	112	98	80-120
Arsenic (%)	95	N/A	80-120

Sample Spike

Parameter	Sample Spike 1	Sample Spike 2	Acceptance
Total Suspended Solids (%)	N/A	N/A	N/A
Arsenic (%)	98	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	1	2	RPD≤5%
Arsenic (%)	11	N/A	RPD≤20%

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 42106.

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APPLICANT: **Wellab Limited (EM&A Department)**
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Report No.:	QC42115
Date of Issue:	2025-05-06
Date Received:	2025-04-30
Date Tested:	2025-04-30
Date Completed:	2025-05-06

ATTN: **Mr. Marco Ma**

Page: 1 of 1

QC report

Method Blank

Parameter	Method Blank 1	Method Blank 2	Acceptance
Total Suspended Solids (mg/L)	<0.5	<0.5	<0.5
Arsenic (μg/L)	<0.2	N/A	<0.2

Method QC

Parameter	MQC1	MQC2	Acceptance
Total Suspended Solids (%)	96	103	80-120
Arsenic (%)	100	N/A	80-120

Sample Spike

Parameter	Sample Spike 1	Sample Spike 2	Acceptance
Total Suspended Solids (%)	N/A	N/A	N/A
Arsenic (%)	96	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	4	2	RPD≤5%
Arsenic (%)	5	N/A	RPD≤20%

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 42115.

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APPENDIX J
LANDFILL GAS MONITORING RESULTS

堆填區附近區域(Consultation Zone)每月氣體監察記錄

			氧氣 O2	甲烷 CH4	二氧化碳 CO_2
日期及時間	位置	氣體及安全標準	>19%	<10% LEL	<0.5%
15-4-2025 16:45	CZ PT 1		20.90	0.00	0.00
15-4-2025 16:47	CZ container 1		20.90	0.00	0.00
15-4-2025 16:39	CZ container 2		20.90	0.00	0.00
15-4-2025 16:41	CZ container 3		20.90	0.00	0.00
15-4-2025 16:43	CZ container 4		20.90	0.00	0.00
15-4-2025 16:49	CZ container 5		20.90	0.00	0.00

Prepared by : Y.S. LIU (Safety Officer) Date : 15-4-2025

APPENDIX K
BUILT HERITAGE MONITORING RESULTS

No construction vibration monitoring was conducted for built heritage when no pile driving operation was conducted within assessment area of the construction works.

APPENDIX L
ECOLOGICAL MONITORING RESULTS

Appendix L1a. Avifauna Species Recorded for Water Birds Monitoring, 1 & 3 April 2025, High Tide

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date								3/4/2025 (T1 & T2), 1/4/2025 (T3 & T5)
					Weather Condition								Rainy, Rainy
					Tidal Condition								High
					Tide Level (m)								1.85, 1.61
					Start Time								10:00, 09:00
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Alexandrine Parakeet	*Psittacula eupatria*	亞歷山大鸚鵡	RR	NT, Cap. 586					3				
Amur Stonechat	*Saxicola stejnegeri*	黑喉石鴢	WV						1				
Asian Koel	*Eudynamys scolopacea*	噪鵑	R						1			1	
Barn Swallow	*Hirundo rustica*	家燕	PM, Sv						1				70
Black Kite	*Milvus migrans*	黑鳶	R, WV	Cap.586, LC		1							
Black-collared Starling	*Gracupica nigricollis*	黑領椋鳥	R						13				
Black-winged Stilt	*Himantopus himantopus*	黑翅長腳鷸	PM	RC				4		102			2
Chinese Pond Heron	*Ardeola bacchus*	池鷺	R	PRC(RC)	1	5	3	1		5			
Common Greenshank	*Tringa nebularia*	青腳鷸	PM, WV	RC						7			
Common Moorhen	*Gallinula chloropus*	黑水雞	R							2			
Common Myna	*Acridotheres tristis*	家八哥	UR						1				
Common Sandpiper	*Actitis hypoleucos*	磯鷸	WV, PM							2			
Common Snipe	*Gallinago gallinago*	扇尾沙錐	WV, PM							9			
Common Tailorbird	*Orthotomus sutorius*	長尾縫葉鶯	R						1				
Crested Myna	*Acridotheres cristatellus*	八哥	R				2		7				
Eastern Cattle Egret	*Bubulcus coromandus*	牛背鷺	R, PM	(LC)					7	9			3

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date					3/4/2025 (T1 & T2), 1/4/2025 (T3 & T5)			
					Weather Condition					Rainy, Rainy			
					Tidal Condition					High			
					Tide Level (m)					1.85, 1.61			
					Start Time					10:00, 09:00			
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Eastern Yellow Wagtail	*Motacilla tschutschensis*	東黃鶺鴒	PM, WV						6				
Great Egret	*Ardea alba*	大白鷺	R, WV	PRC(RC)	1	4	1			1			
Greater Painted-snipe	*Rostratula benghalensis*	彩鷸	R	LC						1			
Green Sandpiper	*Tringa ochropus*	白腰草鷸	UPM, WV							2			
Little Egret	*Egretta garzetta*	小白鷺	R	PRC(RC)	3	21	6	1		3			1
Little Grebe	*Tachybaptus ruficollis*	小䴙䴘	R	LC						2			
Marsh Sandpiper	*Tringa stagnatilis*	澤鷸	PM, WV	RC						2			
Masked Laughingthrush	*Pterorhinus perspicillatus*	黑臉噪鶥	R						7			2	
Northern Shoveler	*Spatula clypeata*	琵嘴鴨	WV	RC							3		
Oriental Magpie-Robin	*Copsychus saularis*	鵲鴝	R						2				
Pied Avocet	*Recurvirostra avosetta*	反嘴鷸	WV	RC						16			
Plain Prinia	*Prinia inornata*	純色鷦鶯	R						5				
Red-rumped Swallow	*Cecropis daurica*	金腰燕	UPM										9
Red-whiskered Bulbul	*Pycnonotus jocosus*	紅耳鵯	R						6				
Rock Dove	*Columba livia*	原鴿	R						16				
Scaly-breasted Munia	*Lonchura punctulata*	斑文鳥	R						6				8
Spotted Dove	*Streptopelia chinensis*	珠頸斑鳩	R						4				

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date								3/4/2025 (T1 & T2), 1/4/2025 (T3 & T5)
					Weather Condition								Rainy, Rainy
					Tidal Condition								High
					Tide Level (m)								1.85, 1.61
					Start Time								10:00, 09:00
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Swinhoe's White-eye	*Zosterops simplex*	暗綠繡眼鳥	R			4							
White-breasted Waterhen	*Amaurornis phoenicurus*	白胸苦惡鳥	R							1		1	1
White-shouldered Starling	*Sturnia sinensis*	灰背椋鳥	M, WV, Sv	LC					73				
White-throated Kingfisher	*Halcyon smyrnensis*	白胸翡翠	R	(LC)	1	2							
Wood Sandpiper	*Tringa glareola*	林鷸	PM, WV	LC						17			
Yellow-bellied Prinia	*Prinia flaviventris*	黃腹鷦鶯	R						1				
Total No. of Species					4	6	4	3	19	16	1	3	7
Total No. of Conservation Interest Species					4	5	3	3	3	11	1	0	3

Note:
R – Resident; WV – Winter visitor; PM – Passage migrant; CPM - Common Passage Migrant; UPM – Uncommon passage migrant; SPM - Scarce Passage Migrant; CaM - Common autumn migrant; SaM - Scarce autumn migrant; USV - Uncommon Summer visitor; SpM – Spring migrant; Sv – Summer Visitor; SSv – Spring & Summer Visitor; UR – Uncommon resident; RR – Rare resident; SWV – Scarce winter visitor; CWV - Common Winter Visitor; M - Spring and Autumn Migrant; OV - Occasional visitor; V - Vagrant
Status was decided according to AFCD biodiversity website (www.hkbiodiversity.net)
Cap.170: All bird species are under protection of Wild Animals Protection Ordinance
Cap.586: Endangered Species of Animals and Plants Ordinance (Cap.586)
CR: Rare in China Red Data Book Status VU: Vulnerable in IUCN Red List Status (VU): Vulnerable in China Red Data Book Status
EN: Endangered in IUCN Red List Status (EN): Endangered in China Red Data Book Status NT: Near Threatened in IUCN Red List Status
(NT): Near Threatened in Red List of China Vertebrates CR: Critically Endangered in IUCN Red List Status LC(R): Least Concern in IUCN Red List Status
RC=Regional Concern; LC=Local Concern; PRC=Potential Regional Concern; GC=Global Concern; PGC=Potential Global Concern. Letters in parentheses indicate that the assessment is on the basis of restrictedness in breeding and/or roosting sites rather than in general occurrence (Fellowes et al. (2002))

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date								3/4/2025 (T1 & T2), 1/4/2025 (T3 & T5)	
					Weather Condition								Rainy, Rainy	
					Tidal Condition								High	
					Tide Level (m)								1.85, 1.61	
					Start Time								10:00, 09:00	
					Abundance									
					Transect Walk									
					T1	T2	T3	T5						
								WAL	DAL	SWH	P	Heard	Flight	
WAL: Wet Agricultural Land DAL: Dry Agricultural Land SWH: Shallow Water Habitat P: Pond														

Appendix L1b. Avifauna Species Recorded for Water Birds Monitoring, 1 & 3 April 2025, Low Tide

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date								3/4/2025 (T1 & T2), 1/4/2025 (T3 & T5)
					Weather Condition								Rainy, Rainy
					Tidal Condition								Low
					Tide Level (m)								1.02, 0.74
					Start Time								7:00, 06:00
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Yellow-bellied Prinia	*Prinia flaviventris*	黃腹鷦鶯	R						2				
Wood Sandpiper	*Tringa glareola*	林鷸	PM, WV	LC			1			11			7
White-throated Kingfisher	*Halcyon smyrnensis*	白胸翡翠	R	(LC)		1							
White-shouldered Starling	*Sturnia sinensis*	灰背椋鳥	M, WV, Sv	LC					94				
White-breasted Waterhen	*Amaurornis phoenicurus*	白胸苦惡鳥	R				1		1	9		1	
Spotted Dove	*Streptopelia chinensis*	珠頸斑鳩	R				3		4				3
Rock Dove	*Columba livia*	原鴿	R			17			2				
Red-throated Pipit	*Anthus cervinus*	紅喉鷚	CPM, WV	RC					4				
Plain Prinia	*Prinia inornata*	純色鷦鶯	R						7				
Pied Avocet	*Recurvirostra avosetta*	反嘴鴴	WV	RC						16			
Oriental Magpie-Robin	*Copsychus saularis*	鵲鴝	R		1				1				
Oriental Magpie	*Pica serica*	喜鵲	R			1							
Northern Shoveler	*Spatula clypeata*	琵嘴鴨	WV	RC							1		
Little Grebe	*Tachybaptus ruficollis*	小䴙䴘	R	LC							2		
Little Egret	*Egretta garzetta*	小白鷺	R	PRC(RC)	3	14	9		6	5			11
Green Sandpiper	*Tringa ochropus*	白腰草鷸	UPM, WV				1						

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date					3/4/2025 (T1 & T2), 1/4/2025 (T3 & T5)			
					Weather Condition					Rainy, Rainy			
					Tidal Condition					Low			
					Tide Level (m)					1.02, 0.74			
					Start Time					7:00, 06:00			
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Greater Coucal	*Centropus sinensis*	褐翅鴉鵑	R	(VU)					1				
Great Egret	*Ardea alba*	大白鷺	R, WV	PRC(RC)	1	5	1			1			
Eastern Cattle Egret	*Bubulcus coromandus*	牛背鷺	R, PM	(LC)					2				2
Crested Myna	*Acridotheres cristatellus*	八哥	R						35				12
Common Tailorbird	*Orthotomus sutorius*	長尾縫葉鶯	R									1	
Common Snipe	*Gallinago gallinago*	扇尾沙錐	WV, PM							14			
Common Sandpiper	*Actitis hypoleucos*	磯鷸	WV, PM										
Common Moorhen	*Gallinula chloropus*	黑水雞	R							2			
Common Greenshank	*Tringa nebularia*	青腳鷸	PM, WV	RC				1		8			
Collared Crow	*Corvus torquatus*	白頸鴉	UR	LC, VU			1						
Chinese Pond Heron	*Ardeola bacchus*	池鷺	R	PRC(RC)	7	2	2		1	4			1
Black-winged Stilt	*Himantopus himantopus*	黑翅長腳鷸	PM	RC						99			
Black-collared Starling	*Gracupica nigricollis*	黑領椋鳥	R		2				8			2	2
Black Kite	*Milvus migrans*	黑鳶	R, WV	Cap.586, LC									1
Barn Swallow	*Hirundo rustica*	家燕	PM, Sv						12				10
Asian Koel	*Eudynamys scolopacea*	噪鵑	R									2	
Amur Stonechat	*Saxicola stejnegeri*	黑喉石䳭	WV						1				

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date								3/4/2025 (T1 & T2), 1/4/2025 (T3 & T5)
					Weather Condition								Rainy, Rainy
					Tidal Condition								Low
					Tide Level (m)								1.02, 0.74
					Start Time								7:00, 06:00
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Total No. of Species					5	6	8	1	16	10	2	4	9
Total No. of Conservation Interest Species					3	4	5	1	6	7	2	0	5

Note:
R – Resident; WV – Winter visitor; PM – Passage migrant; CPM - Common Passage Migrant; UPM – Uncommon passage migrant; SPM - Scarce Passage Migrant; CaM - Common autumn migrant; SaM - Scarce autumn migrant; USV - Uncommon Summer visitor; SpM – Spring migrant; Sv – Summer Visitor; SSv – Spring & Summer Visitor; UR – Uncommon resident; RR – Rare resident; SWV – Scarce winter visitor; CWV - Common Winter Visitor; M - Spring and Autumn Migrant; OV - Occasional visitor; V - Vagrant
Status was decided according to AFCD biodiversity website (www.hkbiodiversity.net)
Cap.170: All bird species are under protection of Wild Animals Protection Ordinance
Cap.586: Endangered Species of Animals and Plants Ordinance (Cap.586)
CR: Rare in China Red Data Book Status VU: Vulnerable in IUCN Red List Status (VU): Vulnerable in China Red Data Book Status
EN: Endangered in IUCN Red List Status (EN): Endangered in China Red Data Book Status NT: Near Threatened in IUCN Red List Status
(NT): Near Threatened in Red List of China Vertebrates CR: Critically Endangered in IUCN Red List Status LC(R): Least Concern in IUCN Red List Status
RC=Regional Concern; LC=Local Concern; PRC=Potential Regional Concern; GC=Global Concern; PGC=Potential Global Concern. Letters in parentheses indicate that the assessment is on the basis of restrictedness in breeding and/or roosting sites rather than in general occurrence (Fellowes et al. (2002))
WAL: Wet Agricultural Land DAL: Dry Agricultural Land SWH: Shallow Water Habitat P: Pond

Appendix L1c. Avifauna Species Recorded for Water Birds Monitoring, 8 & 10 April 2025, High Tide

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date								10/4/2025 (T1 & T2), 8/4/2025 (T3 & T5)
					Weather Condition								Cloudy, Sunny
					Tidal Condition								High
					Tide Level (m)								1.95, 1.77
					Start Time								10:00, 09:00
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Amur Stonechat	*Saxicola stejnegeri*	黑喉石鴴	WV						4				
Asian Koel	*Eudynamys scolopacea*	噪鵑	R						1			1	
Barn Swallow	*Hirundo rustica*	家燕	PM, Sv						2				9
Black-collared Starling	*Gracupica nigricollis*	黑領椋鳥	R						11				3
Black-winged Stilt	*Himantopus himantopus*	黑翅長腳鷸	PM	RC		2		4		99			
Chinese Bulbul	*Pycnonotus sinensis*	白頭鵯	R						2				
Chinese Pond Heron	*Ardeola bacchus*	池鷺	R	PRC(RC)	1	2	2		1	2			
Collared Crow	*Corvus torquatus*	白頸鴉	UR	LC, VU	1		1		2				
Common Greenshank	*Tringa nebularia*	青腳鷸	PM, WV	RC						4			
Common Moorhen	*Gallinula chloropus*	黑水雞	R							7			
Common Sandpiper	*Actitis hypoleucos*	磯鷸	WV, PM			1	2						
Common Snipe	*Gallinago gallinago*	扇尾沙錐	WV, PM							21			
Common Tailorbird	*Orthotomus sutorius*	長尾縫葉鶯	R						2				
Crested Myna	*Acridotheres cristatellus*	八哥	R										7
Eastern Yellow Wagtail	*Motacilla tschutschensis*	東黃鶺鴒	PM, WV						13				
Great Egret	*Ardea alba*	大白鷺	R, WV	PRC(RC)	2	3	3			1			

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date								10/4/2025 (T1 & T2), 8/4/2025 (T3 & T5)
					Weather Condition								Cloudy, Sunny
					Tidal Condition								High
					Tide Level (m)								1.95, 1.77
					Start Time								10:00, 09:00
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Green Sandpiper	*Tringa ochropus*	白腰草鷸	UPM, WV				1						
Intermediate Egret	*Ardea intermedia*	中白鷺	CPM	RC						1			
Little Egret	*Egretta garzetta*	小白鷺	R	PRC(RC)	3	10	8			6			
Masked Laughingthrush	*Pterorhinus perspicillatus*	黑臉噪鶥	R						4				
Oriental Magpie	*Pica serica*	喜鵲	R						2				
Oriental Magpie-Robin	*Copsychus saularis*	鵲鴝	R		1								
Plain Prinia	*Prinia inornata*	純色鷦鶯	R						6				
Red-billed Blue Magpie	*Urocissa erythrorhyncha*	紅咀藍鵲	R						1				
Red-throated Pipit	*Anthus cervinus*	紅喉鷚	CPM, WV	RC					5				
Red-whiskered Bulbul	*Pycnonotus jocosus*	紅耳鵯	R						6				
Richard's Pipit	*Anthus richardi*	理氏鷚	WV, PM						2				
Rock Dove	*Columba livia*	原鴿	R						20				2
Scaly-breasted Munia	*Lonchura punctulata*	斑文鳥	R						15				
Spotted Dove	*Streptopelia chinensis*	珠頸斑鳩	R			2			6				
White Wagtail	*Motacilla alba*	白鶺鴒	PM, WV			1							
White-breasted Waterhen	*Amaurornis phoenicurus*	白胸苦惡鳥	R							3			
White-throated Kingfisher	*Halcyon smyrnensis*	白胸翡翠	R	(LC)									1

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date								10/4/2025 (T1 & T2), 8/4/2025 (T3 & T5)
					Weather Condition								Cloudy, Sunny
					Tidal Condition								High
					Tide Level (m)								1.95, 1.77
					Start Time								10:00, 09:00
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Wood Sandpiper	*Tringa glareola*	林鷸	PM, WV	LC						70			
Total No. of Species					5	7	6	1	19	10	0	1	5
Total No. of Conservation Interest Species					4	4	4	1	3	7	0	0	1

Note:
R – Resident; WV – Winter visitor; PM – Passage migrant; CPM - Common Passage Migrant; UPM – Uncommon passage migrant; SPM - Scarce Passage Migrant; CaM - Common autumn migrant; SaM - Scarce autumn migrant; USV - Uncommon Summer visitor; SpM – Spring migrant; Sv – Summer Visitor; SSv – Spring & Summer Visitor; UR – Uncommon resident; RR – Rare resident; SWV – Scarce winter visitor; CWV - Common Winter Visitor; M - Spring and Autumn Migrant; OV - Occasional visitor; V - Vagrant
Status was decided according to AFCD biodiversity website (www.hkbiodiversity.net)
Cap.170: All bird species are under protection of Wild Animals Protection Ordinance
Cap.586: Endangered Species of Animals and Plants Ordinance (Cap.586)
CR: Rare in China Red Data Book Status VU: Vulnerable in IUCN Red List Status (VU): Vulnerable in China Red Data Book Status
EN: Endangered in IUCN Red List Status (EN): Endangered in China Red Data Book Status NT: Near Threatened in IUCN Red List Status
(NT): Near Threatened in Red List of China Vertebrates CR: Critically Endangered in IUCN Red List Status LC(R): Least Concern in IUCN Red List Status
RC=Regional Concern; LC=Local Concern; PRC=Potential Regional Concern; GC=Global Concern; PGC=Potential Global Concern. Letters in parentheses indicate that the assessment is on the basis of restrictedness in breeding and/or roosting sites rather than in general occurrence (Fellowes et al. (2002))
WAL: Wet Agricultural Land DAL: Dry Agricultural Land SWH: Shallow Water Habitat P: Pond

Appendix L1d. Avifauna Species Recorded for Water Birds Monitoring, 8 & 10 April 2025, Low Tide

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date					10/4/2025 (T1 & T2), 8/4/2025 (T3 & T5)			
					Weather Condition					Sunny, Cloudy			
					Tidal Condition					Low			
					Tide Level (m)					1.37, 1.39			
					Start Time					13:00, 13:00			
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Alexandrine Parakeet	*Psittacula eupatria*	亞歷山大鸚鵡	RR	NT, Cap. 586					1				
Amur Stonechat	*Saxicola stejnegeri*	黑喉石鴴	WV						2			3	
Asian Koel	*Eudynamys scolopacea*	噪鵑	R						1				
Barn Swallow	*Hirundo rustica*	家燕	PM, Sv						7				19
Black-collared Starling	*Gracupica nigricollis*	黑領椋鳥	R						11				6
Black-winged Stilt	*Himantopus himantopus*	黑翅長腳鷸	PM	RC			2	1		102			4
Chinese Bulbul	*Pycnonotus sinensis*	白頭鵯	R						1				
Chinese Pond Heron	*Ardeola bacchus*	池鷺	R	PRC(RC)	1	1	1		1	1			2
Collared Crow	*Corvus torquatus*	白頸鴉	UR	LC, VU		1							
Common Greenshank	*Tringa nebularia*	青腳鷸	PM, WV	RC			3	1		5			
Common Moorhen	*Gallinula chloropus*	黑水雞	R							1			
Common Snipe	*Gallinago gallinago*	扇尾沙錐	WV, PM							17			
Common Tailorbird	*Orthotomus sutorius*	長尾縫葉鶯	R						1				
Crested Myna	*Acridotheres cristatellus*	八哥	R										5
Eastern Yellow Wagtail	*Motacilla tschutschensis*	東黃鶺鴒	PM, WV						12				
Eurasian Tree Sparrow	*Passer montanus*	樹麻雀	R						22				

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date								10/4/2025 (T1 & T2), 8/4/2025 (T3 & T5)
					Weather Condition								Sunny, Cloudy
					Tidal Condition								Low
					Tide Level (m)								1.37, 1.39
					Start Time								13:00, 13:00
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Great Egret	*Ardea alba*	大白鷺	R, WV	PRC(RC)	1	2	1			1			
Green Sandpiper	*Tringa ochropus*	白腰草鷸	UPM, WV				1						
Grey Heron	*Ardea cinerea*	蒼鷺	WV	PRC			1						
Little Egret	*Egretta garzetta*	小白鷺	R	PRC(RC)	2	7	13			2			1
Marsh Sandpiper	*Tringa stagnatilis*	澤鷸	PM, WV	RC				1		1			
Masked Laughingthrush	*Pterorhinus perspicillatus*	黑臉噪鶥	R				2						
Olive-backed Pipit	*Anthus hodgsoni*	樹鷚	WV						1				
Oriental Magpie-Robin	*Copsychus saularis*	鵲鴝	R			2							
Pacific Golden Plover	*Pluvialis fulva*	太平洋金斑鴴	CPM, WV	LC					3				
Plain Prinia	*Prinia inornata*	純色鷦鶯	R						6				
Red-throated Pipit	*Anthus cervinus*	紅喉鷚	CPM, WV	RC					8				
Red-whiskered Bulbul	*Pycnonotus jocosus*	紅耳鵯	R										2
Rock Dove	*Columba livia*	原鴿	R			27			23				1
Scaly-breasted Munia	*Lonchura punctulata*	斑文鳥	R						5				
Spotted Dove	*Streptopelia chinensis*	珠頸斑鳩	R			2	2						
White Wagtail	*Motacilla alba*	白鶺鴒	PM, WV				2						1
White-breasted Waterhen	*Amaurornis phoenicurus*	白胸苦惡鳥	R					1		2	1	2	

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date								10/4/2025 (T1 & T2), 8/4/2025 (T3 & T5)
					Weather Condition								Sunny, Cloudy
					Tidal Condition								Low
					Tide Level (m)								1.37, 1.39
					Start Time								13:00, 13:00
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
White-shouldered Starling	*Sturnia sinensis*	灰背椋鳥	M, WV, Sv	LC									11
Wood Sandpiper	*Tringa glareola*	林鷸	PM, WV	LC						45			
Yellow-bellied Prinia	*Prinia flaviventris*	黃腹鷦鶯	R						2			1	
Total No. of Species					3	7	10	4	17	10	1	3	10
Total No. of Conservation Interest Species					3	4	6	3	4	7	0	0	4

Note:
R – Resident; WV – Winter visitor; PM – Passage migrant; CPM - Common Passage Migrant; UPM – Uncommon passage migrant; SPM - Scarce Passage Migrant; CaM - Common autumn migrant; SaM - Scarce autumn migrant; USV - Uncommon Summer visitor; SpM – Spring migrant; Sv – Summer Visitor; SSv – Spring & Summer Visitor; UR – Uncommon resident; RR – Rare resident; SWV – Scarce winter visitor; CWV - Common Winter Visitor; M - Spring and Autumn Migrant; OV - Occasional visitor; V - Vagrant
Status was decided according to AFCD biodiversity website (www.hkbiodiversity.net)
Cap.170: All bird species are under protection of Wild Animals Protection Ordinance
Cap.586: Endangered Species of Animals and Plants Ordinance (Cap.586)
CR: Rare in China Red Data Book Status VU: Vulnerable in IUCN Red List Status (VU): Vulnerable in China Red Data Book Status
EN: Endangered in IUCN Red List Status (EN): Endangered in China Red Data Book Status NT: Near Threatened in IUCN Red List Status
(NT): Near Threatened in Red List of China Vertebrates CR: Critically Endangered in IUCN Red List Status LC(R): Least Concern in IUCN Red List Status
RC=Regional Concern; LC=Local Concern; PRC=Potential Regional Concern; GC=Global Concern; PGC=Potential Global Concern. Letters in parentheses indicate that the assessment is on the basis of restrictedness in breeding and/or roosting sites rather than in general occurrence (Fellowes et al. (2002))
WAL: Wet Agricultural Land DAL: Dry Agricultural Land SWH: Shallow Water Habitat P: Pond

Appendix L1e. Avifauna Species Recorded for Water Birds Monitoring, 14 & 15 April 2025, High Tide

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date								14/4/2025 (T1 & T2), 15/4/2025 (T3 & T5)
					Weather Condition								Cloudy, Sunny
					Tidal Condition								High
					Tide Level (m)								2.25, 2.42
					Start Time								12:00, 12:00
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Asian Koel	*Eudynamys scolopacea*	噪鵑	R									3	
Barn Swallow	*Hirundo rustica*	家燕	PM, Sv				4						8
Black Kite	*Milvus migrans*	黑鳶	R, WV	Cap.586, LC			2						
Black-collared Starling	*Gracupica nigricollis*	黑領椋鳥	R				1		9				1
Black-winged Stilt	*Himantopus himantopus*	黑翅長腳鷸	PM	RC			1	17		60	13		
Chinese Pond Heron	*Ardeola bacchus*	池鷺	R	PRC(RC)			3		2				1
Common Greenshank	*Tringa nebularia*	青腳鷸	PM, WV	RC			6	2		1			
Common Moorhen	*Gallinula chloropus*	黑水雞	R							1			
Common Sandpiper	*Actitis hypoleucos*	磯鷸	WV, PM			1	3			2			
Common Snipe	*Gallinago gallinago*	扇尾沙錐	WV, PM							1			
Crested Myna	*Acridotheres cristatellus*	八哥	R			2							3
Eastern Cattle Egret	*Bubulcus coromandus*	牛背鷺	R, PM	(LC)			2						
Eastern Yellow Wagtail	*Motacilla tschutschensis*	東黃鶺鴒	PM, WV							8			4
Eurasian Tree Sparrow	*Passer montanus*	樹麻雀	R						9				
Great Egret	*Ardea alba*	大白鷺	R, WV	PRC(RC)	2	1	1	1		1			
Greater Coucal	*Centropus sinensis*	褐翅鴉鵑	R	(VU)					1				1

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date								14/4/2025 (T1 & T2), 15/4/2025 (T3 & T5)
					Weather Condition								Cloudy, Sunny
					Tidal Condition								High
					Tide Level (m)								2.25, 2.42
					Start Time								12:00, 12:00
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Green Sandpiper	*Tringa ochropus*	白腰草鷸	UPM, WV				1			1			
Intermediate Egret	*Ardea intermedia*	中白鷺	CPM	RC						1			
Little Egret	*Egretta garzetta*	小白鷺	R	PRC(RC)	5	3	16	1	1	3			
Northern Shoveler	*Spatula clypeata*	琵嘴鴨	WV	RC							1		
Oriental Pratincole	*Glareola maldivarum*	普通燕鴴	PM	LC						1			
Plain Prinia	*Prinia inornata*	純色鷦鶯	R						2				
Rock Dove	*Columba livia*	原鴿	R			14	5		6				
Scaly-breasted Munia	*Lonchura punctulata*	斑文鳥	R						8				
Spotted Dove	*Streptopelia chinensis*	珠頸斑鳩	R			3	1		3				
White Wagtail	*Motacilla alba*	白鶺鴒	PM, WV				1		3				1
White-breasted Waterhen	*Amaurornis phoenicurus*	白胸苦惡鳥	R				1		1			1	
Wood Sandpiper	*Tringa glareola*	林鷸	PM, WV	LC			1	3		12			
Yellow-bellied Prinia	*Prinia flaviventris*	黃腹鷦鶯	R						1			1	
Total No. of Species					2	6	16	5	12	12	2	3	7
Total No. of Conservation Interest Species					2	2	8	5	3	7	2	0	2

Note:
R – Resident; WV – Winter visitor; PM – Passage migrant; CPM - Common Passage Migrant; UPM – Uncommon passage migrant; SPM - Scarce Passage Migrant; CaM - Common autumn migrant; SaM - Scarce autumn migrant; USV - Uncommon Summer visitor; SpM – Spring migrant; Sv – Summer Visitor; SSv – Spring & Summer

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date								14/4/2025 (T1 & T2), 15/4/2025 (T3 & T5)	
					Weather Condition								Cloudy, Sunny	
					Tidal Condition								High	
					Tide Level (m)								2.25, 2.42	
					Start Time								12:00, 12:00	
					Abundance									
					Transect Walk									
					T1	T2	T3	T5						
								WAL	DAL	SWH	P	Heard	Flight	

Visitor; UR – Uncommon resident; RR – Rare resident; SWV – Scarce winter visitor; CWV - Common Winter Visitor; M - Spring and Autumn Migrant; OV - Occasional visitor; V - Vagrant
Status was decided according to AFCD biodiversity website (www.hkbiodiversity.net)
Cap.170: All bird species are under protection of Wild Animals Protection Ordinance
Cap.586: Endangered Species of Animals and Plants Ordinance (Cap.586)
CR: Rare in China Red Data Book Status VU: Vulnerable in IUCN Red List Status (VU): Vulnerable in China Red Data Book Status
EN: Endangered in IUCN Red List Status (EN): Endangered in China Red Data Book Status NT: Near Threatened in IUCN Red List Status
(NT): Near Threatened in Red List of China Vertebrates CR: Critically Endangered in IUCN Red List Status LC(R): Least Concern in IUCN Red List Status
RC=Regional Concern; LC=Local Concern; PRC=Potential Regional Concern; GC=Global Concern; PGC=Potential Global Concern. Letters in parentheses indicate that the assessment is on the basis of restrictedness in breeding and/or roosting sites rather than in general occurrence (Fellowes et al. (2002))
WAL: Wet Agricultural Land DAL: Dry Agricultural Land SWH: Shallow Water Habitat P: Pond

Appendix L1f. Avifauna Species Recorded for Water Birds Monitoring, 14 & 15 April 2025, Low Tide

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date								14/4/2025 (T1 & T2), 15/4/2025 (T3 & T5)
					Weather Condition								Cloudy, Sunny
					Tidal Condition								Low
					Tide Level (m)								1.31, 1.12
					Start Time								15:00, 16:00
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Amur Stonechat	*Saxicola stejnegeri*	黑喉石鴢	WV						1				
Asian Koel	*Eudynamys scolopacea*	噪鵑	R						1			2	
Barn Swallow	*Hirundo rustica*	家燕	PM, Sv						6				20
Black Drongo	*Dicrurus macrocercus*	黑卷尾	Sv						1				
Black-collared Starling	*Gracupica nigricollis*	黑領椋鳥	R			2	1		17				3
Black-winged Stilt	*Himantopus himantopus*	黑翅長腳鷸	PM	RC			9	16		75	11		
Chinese Bulbul	*Pycnonotus sinensis*	白頭鵯	R						2				
Chinese Pond Heron	*Ardeola bacchus*	池鷺	R	PRC(RC)	1		3	1	3				
Common Greenshank	*Tringa nebularia*	青腳鷸	PM, WV	RC			5			3			
Common Moorhen	*Gallinula chloropus*	黑水雞	R							2			
Common Sandpiper	*Actitis hypoleucos*	磯鷸	WV, PM			1	3						
Common Snipe	*Gallinago gallinago*	扇尾沙錐	WV, PM						1	2			
Crested Myna	*Acridotheres cristatellus*	八哥	R				6		3				10
Eastern Yellow Wagtail	*Motacilla tschutschensis*	東黃鶺鴒	PM, WV					2		4			
Eurasian Tree Sparrow	*Passer montanus*	樹麻雀	R				3		11				
Great Egret	*Ardea alba*	大白鷺	R, WV	PRC(RC)		2	1						
Greater Coucal	*Centropus sinensis*	褐翅鴉鵑	R	(VU)					1				

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date								14/4/2025 (T1 & T2), 15/4/2025 (T3 & T5)
					Weather Condition								Cloudy, Sunny
					Tidal Condition								Low
					Tide Level (m)								1.31, 1.12
					Start Time								15:00, 16:00
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Green Sandpiper	*Tringa ochropus*	白腰草鷸	UPM, WV				2						
Grey Heron	*Ardea cinerea*	蒼鷺	WV	PRC		2							
Little Egret	*Egretta garzetta*	小白鷺	R	PRC(RC)	2	7	16	2	2				2
Masked Laughingthrush	*Pterorhinus perspicillatus*	黑臉噪鶥	R						2				
Oriental Pratincole	*Glareola maldivarum*	普通燕鴴	PM	LC					4				
Pied Avocet	*Recurvirostra avosetta*	反嘴鷸	WV	RC						1			
Plain Prinia	*Prinia inornata*	純色鷦鶯	R						1				
Red-whiskered Bulbul	*Pycnonotus jocosus*	紅耳鵯	R						2				
Rock Dove	*Columba livia*	原鴿	R						7				
Scaly-breasted Munia	*Lonchura punctulata*	斑文鳥	R						8				
Spotted Dove	*Streptopelia chinensis*	珠頸斑鳩	R				2		4				
White Wagtail	*Motacilla alba*	白鶺鴒	PM, WV				2		2				
White-breasted Waterhen	*Amaurornis phoenicurus*	白胸苦惡鳥	R				2	1	2	1			
White-shouldered Starling	*Sturnia sinensis*	灰背椋鳥	M, WV, Sv	LC					19				
White-throated Kingfisher	*Halcyon smyrnensis*	白胸翡翠	R	(LC)			1						
Wood Sandpiper	*Tringa glareola*	林鷸	PM, WV	LC			1			22	6		
Yellow-bellied Prinia	*Prinia flaviventris*	黃腹鷦鶯	R									1	

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date								14/4/2025 (T1 & T2), 15/4/2025 (T3 & T5)
					Weather Condition								Cloudy, Sunny
					Tidal Condition								Low
					Tide Level (m)								1.31, 1.12
					Start Time								15:00, 16:00
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Total No. of Species					2	5	15	5	22	8	2	2	4
Total No. of Conservation Interest Species					2	3	7	3	5	4	2	0	1

Note:
R – Resident; WV – Winter visitor; PM – Passage migrant; CPM - Common Passage Migrant; UPM – Uncommon passage migrant; SPM - Scarce Passage Migrant; CaM - Common autumn migrant; SaM - Scarce autumn migrant; USV - Uncommon Summer visitor; SpM – Spring migrant; Sv – Summer Visitor; SSv – Spring & Summer Visitor; UR – Uncommon resident; RR – Rare resident; SWV – Scarce winter visitor; CWV - Common Winter Visitor; M - Spring and Autumn Migrant; OV - Occasional visitor; V - Vagrant
Status was decided according to AFCD biodiversity website (www.hkbiodiversity.net)
Cap.170: All bird species are under protection of Wild Animals Protection Ordinance
Cap.586: Endangered Species of Animals and Plants Ordinance (Cap.586)
CR: Rare in China Red Data Book Status VU: Vulnerable in IUCN Red List Status (VU): Vulnerable in China Red Data Book Status
EN: Endangered in IUCN Red List Status (EN): Endangered in China Red Data Book Status NT: Near Threatened in IUCN Red List Status
(NT): Near Threatened in Red List of China Vertebrates CR: Critically Endangered in IUCN Red List Status LC(R): Least Concern in IUCN Red List Status
RC=Regional Concern; LC=Local Concern; PRC=Potential Regional Concern; GC=Global Concern; PGC=Potential Global Concern. Letters in parentheses indicate that the assessment is on the basis of restrictedness in breeding and/or roosting sites rather than in general occurrence (Fellowes et al. (2002))
WAL: Wet Agricultural Land DAL: Dry Agricultural Land SWH: Shallow Water Habitat P: Pond

Appendix L1g. Avifauna Species Recorded for Water Birds Monitoring, 23 & 24 April 2025, High Tide

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date								23/4/2025 (T1 & T2), 24/4/2025 (T3 & T5)
					Weather Condition								Cloudy, Sunny
					Tidal Condition								High
					Tide Level (m)								1.77, 1.88
					Start Time								09:00, 09:00
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Asian Koel	*Eudynamys scolopacea*	噪鵑	R						1			2	
Black Drongo	*Dicrurus macrocercus*	黑卷尾	Sv						1				
Black Kite	*Milvus migrans*	黑鳶	R, WV	Cap.586, LC									1
Black-collared Starling	*Gracupica nigricollis*	黑領椋鳥	R						11			4	6
Black-winged Stilt	*Himantopus himantopus*	黑翅長腳鷸	PM	RC			15			90			6
Chinese Bulbul	*Pycnonotus sinensis*	白頭鵯	R						2				
Chinese Pond Heron	*Ardeola bacchus*	池鷺	R	PRC(RC)	2	2	5		3	6			1
Common Greenshank	*Tringa nebularia*	青腳鷸	PM, WV	RC			3			1			
Common Moorhen	*Gallinula chloropus*	黑水雞	R							4			
Common Redshank	*Tringa totanus*	紅腳鷸	PM	RC						1			
Common Snipe	*Gallinago gallinago*	扇尾沙錐	WV, PM							15			
Common Tailorbird	*Orthotomus sutorius*	長尾縫葉鶯	R						2				
Crested Myna	*Acridotheres cristatellus*	八哥	R				2						4
Eastern Yellow Wagtail	*Motacilla tschutschensis*	東黃鶺鴒	PM, WV						1	2			
Eurasian Tree Sparrow	*Passer montanus*	樹麻雀	R						8				
Great Egret	*Ardea alba*	大白鷺	R, WV	PRC(RC)	1	2	3						

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date								23/4/2025 (T1 & T2), 24/4/2025 (T3 & T5)
					Weather Condition								Cloudy, Sunny
					Tidal Condition								High
					Tide Level (m)								1.77, 1.88
					Start Time								09:00, 09:00
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Greater Coucal	*Centropus sinensis*	褐翅鴉鵑	R	(VU)					1				
Greater Painted-snipe	*Rostratula benghalensis*	彩鷸	R	LC						3			
Green Sandpiper	*Tringa ochropus*	白腰草鷸	UPM, WV				1						
Little Egret	*Egretta garzetta*	小白鷺	R	PRC(RC)	2	8	20			2			1
Masked Laughingthrush	*Pterorhinus perspicillatus*	黑臉噪鶥	R						10				
Oriental Pratincole	*Glareola maldivarum*	普通燕鴴	PM	LC						4			
Plain Prinia	*Prinia inornata*	純色鷦鶯	R						6			1	
Red-throated Pipit	*Anthus cervinus*	紅喉鷚	CPM, WV	RC					2				
Rock Dove	*Columba livia*	原鴿	R			11		3	15				
Scaly-breasted Munia	*Lonchura punctulata*	斑文鳥	R						11				
Spotted Dove	*Streptopelia chinensis*	珠頸斑鳩	R		2	2		2	2				
White-breasted Waterhen	*Amaurornis phoenicurus*	白胸苦惡鳥	R				2	1	1	3			
Wood Sandpiper	*Tringa glareola*	林鷸	PM, WV	LC						2			
Yellow-bellied Prinia	*Prinia flaviventris*	黃腹鷦鶯	R				1		1			3	
Total No. of Species					4	5	9	3	17	12	0	4	6
Total No. of Conservation Interest Species					3	3	5	0	3	8	0	0	4

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date									23/4/2025 (T1 & T2), 24/4/2025 (T3 & T5)
					Weather Condition									Cloudy, Sunny
					Tidal Condition									High
					Tide Level (m)									1.77, 1.88
					Start Time									09:00, 09:00
					Abundance									
					Transect Walk									
					T1	T2	T3	T5						
								WAL	DAL	SWH	P	Heard	Flight	

Note:
R – Resident; WV – Winter visitor; PM – Passage migrant; CPM - Common Passage Migrant; UPM – Uncommon passage migrant; SPM - Scarce Passage Migrant; CaM - Common autumn migrant; SaM - Scarce autumn migrant; USV - Uncommon Summer visitor; SpM – Spring migrant; Sv – Summer Visitor; SSv – Spring & Summer Visitor; UR – Uncommon resident; RR – Rare resident; SWV – Scarce winter visitor; CWV - Common Winter Visitor; M - Spring and Autumn Migrant; OV - Occasional visitor; V - Vagrant
Status was decided according to AFCD biodiversity website (www.hkbiodiversity.net)
Cap.170: All bird species are under protection of Wild Animals Protection Ordinance
Cap.586: Endangered Species of Animals and Plants Ordinance (Cap.586)
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EN: Endangered in IUCN Red List Status (EN): Endangered in China Red Data Book Status NT: Near Threatened in IUCN Red List Status
(NT): Near Threatened in Red List of China Vertebrates CR: Critically Endangered in IUCN Red List Status LC(R): Least Concern in IUCN Red List Status
RC=Regional Concern; LC=Local Concern; PRC=Potential Regional Concern; GC=Global Concern; PGC=Potential Global Concern. Letters in parentheses indicate that the assessment is on the basis of restrictedness in breeding and/or roosting sites rather than in general occurrence (Fellowes et al. (2002))
WAL: Wet Agricultural Land DAL: Dry Agricultural Land SWH: Shallow Water Habitat P: Pond

Appendix L1h. Avifauna Species Recorded for Water Birds Monitoring, 23 & 24 April 2025, Low Tide

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date								
					23/4/2025 (T1 & T2), 24/4/2025 (T3 & T5)								
					Weather Condition								
					Cloudy, Cloudy								
					Tidal Condition								
					Low								
					Tide Level (m)								
					1.45, 1.21								
					Start Time								
					12:00, 13:00								
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Asian Koel	*Eudynamys scolopacea*	噪鵑	R									2	
Barn Swallow	*Hirundo rustica*	家燕	PM, Sv						6				3
Black-collared Starling	*Gracupica nigricollis*	黑領椋鳥	R						19				4
Black-winged Stilt	*Himantopus himantopus*	黑翅長腳鷸	PM	RC			5			92			
Chinese Bulbul	*Pycnonotus sinensis*	白頭鵯	R				4		2				
Chinese Pond Heron	*Ardeola bacchus*	池鷺	R	PRC(RC)		2	5		1				
Collared Crow	*Corvus torquatus*	白頸鴉	UR	LC, VU	1								
Common Greenshank	*Tringa nebularia*	青腳鷸	PM, WV	RC			3			3			
Common Moorhen	*Gallinula chloropus*	黑水雞	R					1		2			
Common Myna	*Acridotheres tristis*	家八哥	UR						3				
Common Redshank	*Tringa totanus*	紅腳鷸	PM	RC						1			
Common Snipe	*Gallinago gallinago*	扇尾沙錐	WV, PM							10			
Crested Myna	*Acridotheres cristatellus*	八哥	R				4		13				12
Eastern Cattle Egret	*Bubulcus coromandus*	牛背鷺	R, PM	(LC)	1								
Eastern Yellow Wagtail	*Motacilla tschutschensis*	東黃鶺鴒	PM, WV							3			
Eurasian Tree Sparrow	*Passer montanus*	樹麻雀	R						27				

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date								23/4/2025 (T1 & T2), 24/4/2025 (T3 & T5)
					Weather Condition								Cloudy, Cloudy
					Tidal Condition								Low
					Tide Level (m)								1.45, 1.21
					Start Time								12:00, 13:00
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Great Egret	*Ardea alba*	大白鷺	R, WV	PRC(RC)		1	2						1
Greater Painted-snipe	*Rostratula benghalensis*	彩鷸	R	LC						3			
Green Sandpiper	*Tringa ochropus*	白腰草鷸	UPM, WV				1						
Intermediate Egret	*Ardea intermedia*	中白鷺	CPM	RC				1					
Little Egret	*Egretta garzetta*	小白鷺	R	PRC(RC)	2	1	16		1				2
Masked Laughingthrush	*Pterorhinus perspicillatus*	黑臉噪鶥	R			3			7				
Oriental Pratincole	*Glareola maldivarum*	普通燕鴴	PM	LC						1			
Plain Prinia	*Prinia inornata*	純色鷦鶯	R						2				
Red-whiskered Bulbul	*Pycnonotus jocosus*	紅耳鵯	R						1				
Rock Dove	*Columba livia*	原鴿	R						33				
Scaly-breasted Munia	*Lonchura punctulata*	斑文鳥	R						32	4			
Spotted Dove	*Streptopelia chinensis*	珠頸斑鳩	R		1		2		5				
White Wagtail	*Motacilla alba*	白鶺鴒	PM, WV				3		2				
White-breasted Waterhen	*Amaurornis phoenicurus*	白胸苦惡鳥	R			1			1	1			
Wood Sandpiper	*Tringa glareola*	林鷸	PM, WV	LC			2			1			
Total No. of Species					4	5	11	2	16	11	0	1	5
Total No. of Conservation Interest Species					3	3	6	1	2	6	0	0	2

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date									23/4/2025 (T1 & T2), 24/4/2025 (T3 & T5)
					Weather Condition									Cloudy, Cloudy
					Tidal Condition									Low
					Tide Level (m)									1.45, 1.21
					Start Time									12:00, 13:00
					Abundance									
					Transect Walk									
					T1	T2	T3	T5						
								WAL	DAL	SWH	P	Heard	Flight	

Note:
R – Resident; WV – Winter visitor; PM – Passage migrant; CPM - Common Passage Migrant; UPM – Uncommon passage migrant; SPM - Scarce Passage Migrant; CaM - Common autumn migrant; SaM - Scarce autumn migrant; USV - Uncommon Summer visitor; SpM – Spring migrant; Sv – Summer Visitor; SSv – Spring & Summer Visitor; UR – Uncommon resident; RR – Rare resident; SWV – Scarce winter visitor; CWV - Common Winter Visitor; M - Spring and Autumn Migrant; OV - Occasional visitor; V - Vagrant
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(NT): Near Threatened in Red List of China Vertebrates CR: Critically Endangered in IUCN Red List Status LC(R): Least Concern in IUCN Red List Status
RC=Regional Concern; LC=Local Concern; PRC=Potential Regional Concern; GC=Global Concern; PGC=Potential Global Concern. Letters in parentheses indicate that the assessment is on the basis of restrictedness in breeding and/or roosting sites rather than in general occurrence (Fellowes et al. (2002))
WAL: Wet Agricultural Land DAL: Dry Agricultural Land SWH: Shallow Water Habitat P: Pond

Appendix L1i. Avifauna Species Recorded for Water Birds Monitoring, 28 & 29 April 2025, High Tide

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date								28/4/2025 (T1 & T2), 29/4/2025 (T3 & T5)
					Weather Condition								Cloudy, Sunny
					Tidal Condition								High
					Tide Level (m)								2.37, 2.65
					Start Time								12:00, 12:00
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Asian Koel	*Eudynamys scolopacea*	噪鵑	R									2	
Barn Swallow	*Hirundo rustica*	家燕	PM, Sv										3
Black-collared Starling	*Gracupica nigricollis*	黑領椋鳥	R						8			3	3
Black-crowned Night Heron	*Nycticorax nycticorax*	夜鷺	R, WV	LC		1							
Black-winged Stilt	*Himantopus himantopus*	黑翅長腳鷸	PM	RC				2		70			8
Chinese Bulbul	*Pycnonotus sinensis*	白頭鵯	R						1				
Chinese Pond Heron	*Ardeola bacchus*	池鷺	R	PRC(RC)	2	1	1		4	5			6
Common Moorhen	*Gallinula chloropus*	黑水雞	R							19			
Common Myna	*Acridotheres tristis*	家八哥	UR										2
Common Sandpiper	*Actitis hypoleucos*	磯鷸	WV, PM				1						
Common Snipe	*Gallinago gallinago*	扇尾沙錐	WV, PM							4			1
Common Tailorbird	*Orthotomus sutorius*	長尾縫葉鶯	R						1			1	
Crested Myna	*Acridotheres cristatellus*	八哥	R				3			1			5
Eastern Yellow Wagtail	*Motacilla tschutschensis*	東黃鶺鴒	PM, WV						4				
Eurasian Tree Sparrow	*Passer montanus*	樹麻雀	R			2			12				
Great Egret	*Ardea alba*	大白鷺	R, WV	PRC(RC)	1		1						1

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date								28/4/2025 (T1 & T2), 29/4/2025 (T3 & T5)
					Weather Condition								Cloudy, Sunny
					Tidal Condition								High
					Tide Level (m)								2.37, 2.65
					Start Time								12:00, 12:00
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Greater Coucal	*Centropus sinensis*	褐翅鴉鵑	R	(VU)					1				
Grey Heron	*Ardea cinerea*	蒼鷺	WV	PRC	2		2						
Intermediate Egret	*Ardea intermedia*	中白鷺	CPM	RC						1			
Little Egret	*Egretta garzetta*	小白鷺	R	PRC(RC)	6	5	34			2			2
Masked Laughingthrush	*Pterorhinus perspicillatus*	黑臉噪鶥	R						2				
Oriental Pratincole	*Glareola maldivarum*	普通燕鴴	PM	LC						2			
Plain Prinia	*Prinia inornata*	純色鷦鶯	R				1		5			1	
Plaintive Cuckoo	*Cacomantis merulinus*	八聲杜鵑	USV									1	
Red-billed Blue Magpie	*Urocissa erythrorhyncha*	紅咀藍鵲	R										1
Red-whiskered Bulbul	*Pycnonotus jocosus*	紅耳鵯	R						4				5
Rock Dove	*Columba livia*	原鴿	R			12			38				
Scaly-breasted Munia	*Lonchura punctulata*	斑文鳥	R						38				3
Sharp-tailed Sandpiper	*Calidris acuminata*	尖尾濱鷸	CPM	LC						2			
Sooty-headed Bulbul	*Pycnonotus aurigaster*	白喉紅臀鵯	UR										1
Spotted Dove	*Streptopelia chinensis*	珠頸斑鳩	R		3	3	1		1				
Swinhoe's White-eye	*Zosterops simplex*	暗綠繡眼鳥	R						1				
White Wagtail	*Motacilla alba*	白鶺鴒	PM, WV			2	1						

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date								28/4/2025 (T1 & T2), 29/4/2025 (T3 & T5)
					Weather Condition								Cloudy, Sunny
					Tidal Condition								High
					Tide Level (m)								2.37, 2.65
					Start Time								12:00, 12:00
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
White-breasted Waterhen	*Amaurornis phoenicurus*	白胸苦惡鳥	R			1	1			1		2	
White-rumped Munia	*Lonchura striata*	白腰文鳥	R						3				
White-shouldered Starling	*Sturnia sinensis*	灰背椋鳥	M, WV, Sv	LC					2				
Wood Sandpiper	*Tringa glareola*	林鷸	PM, WV	LC									1
Yellow-bellied Prinia	*Prinia flaviventris*	黃腹鷦鶯	R						1			2	
Yellow-breasted Bunting	*Emberiza aureola*	黃胸鵐	PM	CR, RC					2				
Zitting Cisticola	*Cisticola juncidis*	棕扇尾鶯	PM, WV	LC					1				
Total No. of Species					5	8	10	1	19	10	0	7	14
Total No. of Conservation Interest Species					4	3	4	1	5	6	0	0	5

Note:
R – Resident; WV – Winter visitor; PM – Passage migrant; CPM - Common Passage Migrant; UPM – Uncommon passage migrant; SPM - Scarce Passage Migrant; CaM - Common autumn migrant; SaM - Scarce autumn migrant; USV - Uncommon Summer visitor; SpM – Spring migrant; Sv – Summer Visitor; SSv – Spring & Summer Visitor; UR – Uncommon resident; RR – Rare resident; SWV – Scarce winter visitor; CWV - Common Winter Visitor; M - Spring and Autumn Migrant; OV - Occasional visitor; V - Vagrant
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CR: Rare in China Red Data Book Status VU: Vulnerable in IUCN Red List Status (VU): Vulnerable in China Red Data Book Status
EN: Endangered in IUCN Red List Status (EN): Endangered in China Red Data Book Status NT: Near Threatened in IUCN Red List Status
(NT): Near Threatened in Red List of China Vertebrates CR: Critically Endangered in IUCN Red List Status LC(R): Least Concern in IUCN Red List Status

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date								28/4/2025 (T1 & T2), 29/4/2025 (T3 & T5)	
					Weather Condition								Cloudy, Sunny	
					Tidal Condition								High	
					Tide Level (m)								2.37, 2.65	
					Start Time								12:00, 12:00	
					Abundance									
					Transect Walk									
					T1	T2	T3	T5						
								WAL	DAL	SWH	P	Heard	Flight	

RC=Regional Concern; LC=Local Concern; PRC=Potential Regional Concern; GC=Global Concern; PGC=Potential Global Concern. Letters in parentheses indicate that the assessment is on the basis of restrictedness in breeding and/or roosting sites rather than in general occurrence (Fellowes et al. (2002))
WAL: Wet Agricultural Land DAL: Dry Agricultural Land SWH: Shallow Water Habitat P: Pond

Appendix L1j. Avifauna Species Recorded for Water Birds Monitoring, 28 & 29 April 2025, Low Tide

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date								28/4/2025 (T1 & T2), 29/4/2025 (T3 & T5)
					Weather Condition								Cloudy, Sunny
					Tidal Condition								Low
					Tide Level (m)								1.13, 1.02
					Start Time								15:00, 16:00
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Asian Koel	*Eudynamys scolopacea*	噪鵑	R									3	
Barn Swallow	*Hirundo rustica*	家燕	PM, Sv										17
Black Drongo	*Dicrurus macrocercus*	黑卷尾	Sv						1				
Black-collared Starling	*Gracupica nigricollis*	黑領椋鳥	R						18			3	2
Black-crowned Night Heron	*Nycticorax nycticorax*	夜鷺	R, WV	LC									1
Black-winged Stilt	*Himantopus himantopus*	黑翅長腳鷸	PM	RC			17	5		72			4
Chinese Bulbul	*Pycnonotus sinensis*	白頭鵯	R				3		2				3
Chinese Pond Heron	*Ardeola bacchus*	池鷺	R	PRC(RC)	3	2	4		1	4			2
Cinereous Tit	*Parus cinereus*	蒼背山雀	R						3				
Collared Crow	*Corvus torquatus*	白頸鴉	UR	LC, VU			2						
Common Greenshank	*Tringa nebularia*	青腳鷸	PM, WV	RC			4			2			
Common Moorhen	*Gallinula chloropus*	黑水雞	R							22			
Common Myna	*Acridotheres tristis*	家八哥	UR						2				
Common Redshank	*Tringa totanus*	紅腳鷸	PM	RC			1			1			
Common Sandpiper	*Actitis hypoleucos*	磯鷸	WV, PM				5						
Common Snipe	*Gallinago gallinago*	扇尾沙錐	WV, PM							21			

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date								28/4/2025 (T1 & T2), 29/4/2025 (T3 & T5)
					Weather Condition								Cloudy, Sunny
					Tidal Condition								Low
					Tide Level (m)								1.13, 1.02
					Start Time								15:00, 16:00
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Crested Myna	*Acridotheres cristatellus*	八哥	R		1		9		6				5
Eastern Yellow Wagtail	*Motacilla tschutschensis*	東黃鶺鴒	PM, WV				9		23	2			1
Great Egret	*Ardea alba*	大白鷺	R, WV	PRC(RC)	1	1							
Grey Heron	*Ardea cinerea*	蒼鷺	WV	PRC			2						
Little Egret	*Egretta garzetta*	小白鷺	R	PRC(RC)	10	12	39			2			2
Little Grebe	*Tachybaptus ruficollis*	小䴙䴘	R	LC							1		
Little Ringed Plover	*Charadrius dubius*	金眶鴴	WV, PM	LC			1						
Marsh Sandpiper	*Tringa stagnatilis*	澤鷸	PM, WV	RC			1						
Masked Laughingthrush	*Pterorhinus perspicillatus*	黑臉噪鶥	R									2	
Oriental Magpie-Robin	*Copsychus saularis*	鵲鴝	R		1	2							
Oriental Pratincole	*Glareola maldivarum*	普通燕鴴	PM	LC						2			
Plain Prinia	*Prinia inornata*	純色鷦鶯	R						2				
Red-throated Pipit	*Anthus cervinus*	紅喉鷚	CPM, WV	RC					1				
Red-whiskered Bulbul	*Pycnonotus jocosus*	紅耳鵯	R						1				1
Rock Dove	*Columba livia*	原鴿	R			17			53				
Scaly-breasted Munia	*Lonchura punctulata*	斑文鳥	R						94				

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date					28/4/2025 (T1 & T2), 29/4/2025 (T3 & T5)			
					Weather Condition					Cloudy, Sunny			
					Tidal Condition					Low			
					Tide Level (m)					1.13, 1.02			
					Start Time					15:00, 16:00			
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Sharp-tailed Sandpiper	*Calidris acuminata*	尖尾濱鷸	CPM	LC						2			
Spotted Dove	*Streptopelia chinensis*	珠頸斑鳩	R			2			5				
White Wagtail	*Motacilla alba*	白鶺鴒	PM, WV		1		5						
White-breasted Waterhen	*Amaurornis phoenicurus*	白胸苦惡鳥	R						1	3		3	1
White-throated Kingfisher	*Halcyon smyrnensis*	白胸翡翠	R	(LC)					1				
Wood Sandpiper	*Tringa glareola*	林鷸	PM, WV	LC			7			3			
Yellow-bellied Prinia	*Prinia flaviventris*	黃腹鷦鶯	R						1				
Yellow-breasted Bunting	*Emberiza aureola*	黃胸鵐	PM	CR, RC					3				
Total No. of Species					6	6	15	1	18	12	1	4	11
Total No. of Conservation Interest Species					3	3	10	1	4	8	1	0	4

Note:
R – Resident; WV – Winter visitor; PM – Passage migrant; CPM - Common Passage Migrant; UPM – Uncommon passage migrant; SPM - Scarce Passage Migrant; CaM - Common autumn migrant; SaM - Scarce autumn migrant; USV - Uncommon Summer visitor; SpM – Spring migrant; Sv – Summer Visitor; SSv – Spring & Summer Visitor; UR – Uncommon resident; RR – Rare resident; SWV – Scarce winter visitor; CWV - Common Winter Visitor; M - Spring and Autumn Migrant; OV - Occasional visitor; V - Vagrant
Status was decided according to AFCD biodiversity website (www.hkbiodiversity.net)
Cap.170: All bird species are under protection of Wild Animals Protection Ordinance
Cap.586: Endangered Species of Animals and Plants Ordinance (Cap.586)
CR: Rare in China Red Data Book Status VU: Vulnerable in IUCN Red List Status (VU): Vulnerable in China Red Data Book Status
EN: Endangered in IUCN Red List Status (EN): Endangered in China Red Data Book Status NT: Near Threatened in IUCN Red List Status

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date								28/4/2025 (T1 & T2), 29/4/2025 (T3 & T5)					
					Weather Condition								Cloudy, Sunny					
					Tidal Condition								Low					
					Tide Level (m)								1.13, 1.02					
					Start Time								15:00, 16:00					
					Abundance													
					Transect Walk													
					T1	T2	T3	T5										
								WAL	DAL	SWH	P	Heard	Flight					

(NT): Near Threatened in Red List of China Vertebrates CR: Critically Endangered in IUCN Red List Status LC(R): Least Concern in IUCN Red List Status
RC=Regional Concern; LC=Local Concern; PRC=Potential Regional Concern; GC=Global Concern; PGC=Potential Global Concern. Letters in parentheses indicate that the assessment is on the basis of restrictedness in breeding and/or roosting sites rather than in general occurrence (Fellowes et al. (2002))
WAL: Wet Agricultural Land DAL: Dry Agricultural Land SWH: Shallow Water Habitat P: Pond

Appendix L1k. Avifauna Species Recorded for Water Birds Monitoring, Night Survey, 15 April 2025, T5

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date: 15/4/2025					
					Start Time: 18:50					
					Abundance					
					WAL	DAL	SWH	P	Heard	Flight
Black-collared Starling	*Gracupica nigricollis*	黑領椋鳥	R						10	
Black-winged Stilt	*Himantopus himantopus*	黑翅長腳鷸	PM	RC	10	48		5	5	12
Chinese Pond Heron	*Ardeola bacchus*	池鷺	R	PRC(RC)						3
Common Greenshank	*Tringa nebularia*	青腳鷸	PM, WV	RC						
Crested Myna	*Acridotheres cristatellus*	八哥	R						10	
Great Egret	*Ardea alba*	大白鷺	R, WV	PRC(RC)		2				
Little Egret	*Egretta garzetta*	小白鷺	R	PRC(RC)		15				
White-breasted Waterhen	*Amaurornis phoenicurus*	白胸苦惡鳥	R						1	
Wood Sandpiper	*Tringa glareola*	林鷸	PM, WV	LC			13			
Total No. of Species					1	3	1	1	4	2
Total No. of Conservation Interest Species					1	3	1	1	1	2

Note:
R – Resident; WV – Winter visitor; PM – Passage migrant; CPM - Common Passage Migrant; UPM – Uncommon passage migrant; SPM - Scarce Passage Migrant; CaM - Common autumn migrant; SaM - Scarce autumn migrant; USV - Uncommon Summer visitor; SpM – Spring migrant; Sv – Summer Visitor; SSv – Spring & Summer Visitor; UR – Uncommon resident; RR – Rare resident; SWV – Scarce winter visitor; CWV - Common Winter Visitor; M - Spring and Autumn Migrant; OV - Occasional visitor; V - Vagrant
Status was decided according to AFCD biodiversity website (www.hkbiodiversity.net)
Cap.170: All bird species are under protection of Wild Animals Protection Ordinance
Cap.586: Endangered Species of Animals and Plants Ordinance (Cap.586)
CR: Rare in China Red Data Book Status VU: Vulnerable in IUCN Red List Status (VU): Vulnerable in China Red Data Book Status
EN: Endangered in IUCN Red List Status (EN): Endangered in China Red Data Book Status NT: Near Threatened in IUCN Red List Status
(NT): Near Threatened in Red List of China Vertebrates CR: Critically Endangered in IUCN Red List Status LC(R): Least Concern in IUCN Red List Status
RC=Regional Concern; LC=Local Concern; PRC=Potential Regional Concern; GC=Global Concern; PGC=Potential Global Concern. Letters in parentheses indicate that the assessment is on the basis of restrictedness in breeding and/or roosting sites rather than in general occurrence (Fellowes et al. (2002))
WAL: Wet Agricultural Land DAL: Dry Agricultural Land SWH: Shallow Water Habitat P: Pond

Appendix L1l. Avifauna Species Recorded for Water Birds Monitoring, Night Survey, 29 April 2025, T5

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date: 29/4/2025					
					Start Time: 19:11					
					Abundance					
					WAL	DAL	SWH	P	Heard	Flight
Asian Koel	*Eudynamys scolopacea*	噪鵑	R						1	
Black-collared Starling	*Gracupica nigricollis*	黑領椋鳥	R			1			3	
Black-crowned Night Heron	*Nycticorax nycticorax*	夜鷺	R, WV	LC		1				
Black-winged Stilt	*Himantopus himantopus*	黑翅長腳鷸	PM	RC			35		7	3
Chinese Pond Heron	*Ardeola bacchus*	池鷺	R	PRC(RC)	1					
Common Greenshank	*Tringa nebularia*	青腳鷸	PM, WV	RC			1			
Common Moorhen	*Gallinula chloropus*	黑水雞	R				4			
Crested Myna	*Acridotheres cristatellus*	八哥	R			5	5			
Great Egret	*Ardea alba*	大白鷺	R, WV	PRC(RC)		4				
Large Hawk-Cuckoo	*Hierococcyx sparverioides*	大鷹鵑	Sv						1	
Little Egret	*Egretta garzetta*	小白鷺	R	PRC(RC)		60				
Sharp-tailed Sandpiper	*Calidris acuminata*	尖尾濱鷸	CPM	LC			2			
White-breasted Waterhen	*Amaurornis phoenicurus*	白胸苦惡鳥	R				2		4	
Total No. of Species					1	5	6	0	5	1
Total No. of Conservation Interest Species					1	3	3	0	1	1

Note:
R – Resident; WV – Winter visitor; PM – Passage migrant; CPM - Common Passage Migrant; UPM – Uncommon passage migrant; SPM - Scarce Passage Migrant; CaM - Common autumn migrant; SaM - Scarce autumn migrant; USV - Uncommon Summer visitor; SpM – Spring migrant; Sv – Summer Visitor; SSv – Spring & Summer Visitor; UR – Uncommon resident; RR – Rare resident; SWV – Scarce winter visitor; CWV - Common Winter Visitor; M - Spring and Autumn Migrant; OV - Occasional visitor; V - Vagrant
Status was decided according to AFCD biodiversity website (www.hkbiodiversity.net)
Cap.170: All bird species are under protection of Wild Animals Protection Ordinance
Cap.586: Endangered Species of Animals and Plants Ordinance (Cap.586)
CR: Rare in China Red Data Book Status VU: Vulnerable in IUCN Red List Status (VU): Vulnerable in China Red Data Book Status
EN: Endangered in IUCN Red List Status (EN): Endangered in China Red Data Book Status NT: Near Threatened in IUCN Red List Status
(NT): Near Threatened in Red List of China Vertebrates CR: Critically Endangered in IUCN Red List Status LC(R): Least Concern in IUCN Red List Status

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date: 29/4/2025					
					Start Time: 19:11					
					Abundance					
					WAL	DAL	SWH	P	Heard	Flight
RC=Regional Concern; LC=Local Concern; PRC=Potential Regional Concern; GC=Global Concern; PGC=Potential Global Concern. Letters in parentheses indicate that the assessment is on the basis of restrictedness in breeding and/or roosting sites rather than in general occurrence (Fellowes et al. (2002)) WAL: Wet Agricultural Land DAL: Dry Agricultural Land SWH: Shallow Water Habitat P: Pond										

Appendix L1m, Waterbirds Recorded in April 2025

Common Name	Species Name	Chinese Name	Conservation Status	Recorded habitat from the survey	Distribution in Hong Kong*
Black-crowned Night Heron	*Nycticorax nycticorax*	夜鷺	LC	T2: River bank T5: In flight	Common resident and winter visitor. Widely distributed in Hong Kong.
Black-winged Stilt	*Himantopus himantopus*	黑翅長腳鷸	RC	T2: River bank T3: River bank, River bed, in flight T5: Wet Agricultural Land, Shallow Water Habitat, Pond, In flight	Common passage migrant. Found in Deep Bay area, Long Valley, Kam Tin.
Chinese Pond Heron	*Ardeola bacchus*	池鷺	PRC(RC)	T1: River bank, In flight T2: River bank, In flight T3: River bank, River bed, in flight T5: Wet Agricultural Land, Dry Agricultural Land, Shallow Water Habitat, In flight	Common resident. Widely distributed in Hong Kong.
Common Greenshank	*Tringa nebularia*	青腳鷸	RC	T3: River bank, River bed T5: Wet Agricultural Land, Shallow Water Habitat	Abundant winter visitor and migrant. Found in Deep Bay area.
Common Moorhen	*Gallinula chloropus*	黑水雞		T5: Wet Agricultural Land, Shallow Water Habitat	Common winter visitor, resident and migrant. Found in Deep Bay area, Shuen Wan, Starling Inlet.
Common Redshank	*Tringa totanus*	紅腳鷸	RC	T3: River bank T5: Shallow Water Habitat	Abundant passage migrant and winter visitor. Found in Deep Bay area.
Common Sandpiper	*Actitis hypoleucos*	磯鷸		T2: River bank T3: River bank T5: Shallow Water Habitat	Common passage migrant and winter visitor. Widely distributed in wetland area throughout Hong Kong.
Common Snipe	*Gallinago gallinago*	扇尾沙錐		T5: Dry Agricultural Land, Shallow Water Habitat, In flight	Common passage migrant and winter visitor. Found in Long Valley, Chau Tau, Sai Kung.
Eastern Cattle Egret	*Bubulcus coromandus*	牛背鷺	(LC)	T1: River bank T3: River bank T5: Dry Agricultural Land, Shallow Water Habitat, In flight	Resident and common passage migrant. Widely distributed in Hong Kong.

Common Name	Species Name	Chinese Name	Conservation Status	Recorded habitat from the survey	Distribution in Hong Kong*
Great Egret	*Ardea alba*	大白鷺	PRC(RC)	T1: River bank, In flight T2: River bank, In flight T3: River bank, River bed, In flight T5: Wet Agricultural Land, Shallow Water Habitat, In flight	Common resident and winter visitor. Widely distributed in Hong Kong.
Greater Painted-snipe	*Rostratula benghalensis*	彩鷸	LC	T5: Shallow Water Habitat	Locally common resident. Found in Ha Tsuen, Lok Ma Chau, Kam Tin, Long Valley, Hong Kong Wetland Park.
Green Sandpiper	*Tringa ochropus*	白腰草鷸		T3: River bank, In flight T5: Shallow Water Habitat	Common migrant and winter visitor. Found in Deep Bay area, Shuen Wan, Long Valley, Kam Tin, Shek Kong, Ho Chung.
Grey Heron	*Ardea cinerea*	蒼鷺	PRC	T1: River bank, In flight T2: River bank, In flight T3: River bank, River bed, In flight	Common winter visitor. Found in Deep Bay area, Starling Inlet, Kowloon Park, Cape D'Aguilar.
Intermediate Egret	*Ardea intermedia*	中白鷺	RC	T5: Wet Agricultural Land, Shallow Water Habitat	Resident and passage migrant. Found in Deep Bay area, Tai Long Wan, Starling Inlet, Tai O, Cap D'Aguilar.
Little Egret	*Egretta garzetta*	小白鷺	PRC(RC)	T1: River bank, In flight T2: River bank, In flight T3: River bank, River bed, In flight T5: Wet Agricultural Land, Dry Agricultural Land, Shallow Water Habitat, In flight	Common resident. Widely distributed in coastal area throughout Hong Kong.
Little Grebe	*Tachybaptus ruficollis*	小䴙䴘	LC	T5: Shallow Water Habitat, Pond	Common resident. Found in Deep Bay area.
Little Ringed Plover	*Charadrius dubius*	金眶鴴	LC	T3: River bank	Resident, common winter visitor and passage migrant. Widely distributed in freshwater areas throughout Hong Kong.
Marsh Sandpiper	*Tringa stagnatilis*	澤鷸	RC	T3: River bank T5: Wet Agricultural Land, Shallow Water Habitat	Abundant winter visitor and migrant. Found in Deep Bay area, Shuen Wan, Long Valley, Kam Tin, Sai Kung.

Common Name	Species Name	Chinese Name	Conservation Status	Recorded habitat from the survey	Distribution in Hong Kong*
Northern Shoveler	*Spatula clypeata*	琵嘴鴨	RC	T5: Pond	Abundant winter visitor. Found in Deep Bay area.
Oriental Pratincole	*Glareola maldivarum*	普通燕鴴	LC	T5: Dry Agricultural Land, Shallow Water Habitat	Passage migrant. Found in Mai Po, Tsim Bei Tsui.
Pacific Golden Plover	*Pluvialis fulva*	太平洋金斑鴴	LC	T5: Dry Agricultural Land	Common migrant and winter visitor. Found in Deep Bay area, Chek Lap Kok, Long Valley.
Pied Avocet	*Recurvirostra avosetta*	反嘴鷸	RC	T5: Shallow Water Habitat	Abundant winter visitor. Found in Deep Bay area.
Sharp-tailed Sandpiper	*Calidris acuminata*	尖尾濱鷸	LC	T5: Shallow Water Habitat	Common passage migrant. Found in Deep Bay area, Shuen Wan, Sai Kung, Long Valley, Tai Po, Lam Tsuen
White-breasted Waterhen	*Amaurornis phoenicurus*	白胸苦惡鳥		T3: River bank T5: Wet Agricultural Land, Dry Agricultural Land, Shallow Water Habitat, Pond, Heard, In flight	Common resident. Widely distributed in wetland throughout Hong Kong.
White-throated Kingfisher	*Halcyon smyrnensis*	白胸翡翠	(LC)	T1: River bank T2: River bank T3: River bank T5: Dry Agricultural Land, In flight	Common resident. Widely distributed in coastal areas throughout Hong Kong.
Wood Sandpiper	*Tringa glareola*	林鷸	LC	T3: River bank T5: Wet Agricultural Land, Shallow Water Habitat, Pond, In flight	Common migrant and winter visitor. Widely distributed in wetland area throughout Hong Kong.

Note:
Status was decided according to AFCD biodiversity website (www.hkbiodiversity.net)
Cap.170: All bird species are under protection of Wild Animals Protection Ordinance
Cap.586: Endangered Species of Animals and Plants Ordinance (Cap.586)
CR: Rare in China Red Data Book Status VU: Vulnerable in IUCN Red List Status (VU): Vulnerable in China Red Data Book Status
EN: Endangered in IUCN Red List Status (EN): Endangered in China Red Data Book Status NT: Near Threatened in IUCN Red List Status
(NT): Near Threatened in Red List of China Vertebrates CR: Critically Endangered in IUCN Red List Status LC(R): Least Concern in IUCN Red List Status

Common Name	Species Name	Chinese Name	Conservation Status	Recorded habitat from the survey	Distribution in Hong Kong*
RC=Regional Concern; LC=Local Concern; PRC=Potential Regional Concern; GC=Global Concern; PGC=Potential Global Concern. Letters in parentheses indicate that the assessment is on the basis of restrictedness in breeding and/or roosting sites rather than in general occurrence (Fellowes et al. (2002)) *Source: Hong Kong Biodiversity Database, AFCD (https://www.afcd.gov.hk/English/conservation/hkbiodiversity/database/search.php)					

Appendix L1n. Birds Recorded in April 2025

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status
Alexandrine Parakeet	*Psittacula eupatria*	亞歷山大鸚鵡	RR	NT, Cap. 586
Amur Stonechat	*Saxicola stejnegeri*	黑喉石鵰	WV	
Asian Koel	*Eudynamys scolopacea*	噪鵑	R	
Barn Swallow	*Hirundo rustica*	家燕	PM, Sv	
Black Drongo	*Dicrurus macrocercus*	黑卷尾	Sv	
Black Kite	*Milvus migrans*	黑鳶	R, WV	Cap.586, LC
Black-collared Starling	*Gracupica nigricollis*	黑領椋鳥	R	
Black-crowned Night Heron	*Nycticorax nycticorax*	夜鷺	R, WV	LC
Black-winged Stilt	*Himantopus himantopus*	黑翅長腳鷸	PM	RC
Chinese Bulbul	*Pycnonotus sinensis*	白頭鵯	R	
Chinese Pond Heron	*Ardeola bacchus*	池鷺	R	PRC(RC)
Cinereous Tit	*Parus cinereus*	蒼背山雀	R	
Collared Crow	*Corvus torquatus*	白頸鴉	UR	LC, VU
Common Greenshank	*Tringa nebularia*	青腳鷸	PM, WV	RC
Common Moorhen	*Gallinula chloropus*	黑水雞	R	
Common Redshank	*Tringa totanus*	紅腳鷸	PM	RC
Common Sandpiper	*Actitis hypoleucos*	磯鷸	WV, PM	
Common Snipe	*Gallinago gallinago*	扇尾沙錐	WV, PM	
Common Tailorbird	*Orthotomus sutorius*	長尾縫葉鶯	R	
Crested Myna	*Acridotheres cristatellus*	八哥	R	
Eastern Cattle Egret	*Bubulcus coromandus*	牛背鷺	R, PM	(LC)

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status
Eastern Yellow Wagtail	*Motacilla tschutschensis*	東黃鶺鴒	PM, WV	
Eurasian Tree Sparrow	*Passer montanus*	樹麻雀	R	
Great Egret	*Ardea alba*	大白鷺	R, WV	PRC(RC)
Greater Coucal	*Centropus sinensis*	褐翅鴉鵑	R	(VU)
Greater Painted-snipe	*Rostratula benghalensis*	彩鷸	R	LC
Green Sandpiper	*Tringa ochropus*	白腰草鷸	UPM, WV	
Grey Heron	*Ardea cinerea*	蒼鷺	WV	PRC
Intermediate Egret	*Ardea intermedia*	中白鷺	CPM	RC
Little Egret	*Egretta garzetta*	小白鷺	R	PRC(RC)
Little Grebe	*Tachybaptus ruficollis*	小䴙䴘	R	LC
Little Ringed Plover	*Charadrius dubius*	金眶鴴	WV, PM	LC
Marsh Sandpiper	*Tringa stagnatilis*	澤鷸	PM, WV	RC
Masked Laughingthrush	*Pterorhinus perspicillatus*	黑臉噪鶥	R	
Northern Shoveler	*Spatula clypeata*	琵嘴鴨	WV	RC
Olive-backed Pipit	*Anthus hodgsoni*	樹鷚	WV	
Oriental Magpie	*Pica serica*	喜鵲	R	
Oriental Magpie-Robin	*Copsychus saularis*	鵲鴝	R	
Oriental Pratincole	*Glareola maldivarum*	普通燕鴴	PM	LC
Pacific Golden Plover	*Pluvialis fulva*	太平洋金斑鴴	CPM, WV	LC
Pied Avocet	*Recurvirostra avosetta*	反嘴鷸	WV	RC
Plain Prinia	*Prinia inornata*	純色鷦鶯	R	

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status
Plaintive Cuckoo	*Cacomantis merulinus*	八聲杜鵑	USV	
Red-billed Blue Magpie	*Urocissa erythrorhyncha*	紅咀藍鵲	R	
Red-rumped Swallow	*Cecropis daurica*	金腰燕	UPM	
Red-throated Pipit	*Anthus cervinus*	紅喉鷚	CPM, WV	RC
Red-whiskered Bulbul	*Pycnonotus jocosus*	紅耳鵯	R	
Richard's Pipit	*Anthus richardi*	理氏鷚	WV, PM	
Rock Dove	*Columba livia*	原鴿	R	
Scaly-breasted Munia	*Lonchura punctulata*	斑文鳥	R	
Sharp-tailed Sandpiper	*Calidris acuminata*	尖尾濱鷸	CPM	LC
Sooty-headed Bulbul	*Pycnonotus aurigaster*	白喉紅臀鵯	UR	
Spotted Dove	*Streptopelia chinensis*	珠頸斑鳩	R	
Swinhoe's White-eye	*Zosterops simplex*	暗綠繡眼鳥	R	
White Wagtail	*Motacilla alba*	白鶺鴒	PM, WV	
White-breasted Waterhen	*Amaurornis phoenicurus*	白胸苦惡鳥	R	
White-rumped Munia	*Lonchura striata*	白腰文鳥	R	
White-shouldered Starling	*Sturnia sinensis*	灰背椋鳥	M, WV, Sv	LC
White-throated Kingfisher	*Halcyon smyrnensis*	白胸翡翠	R	(LC)
Wood Sandpiper	*Tringa glareola*	林鷸	PM, WV	LC
Yellow-bellied Prinia	*Prinia flaviventris*	黃腹鷦鶯	R	
Yellow-breasted Bunting	*Emberiza aureola*	黃胸鵐	PM	CR, RC
Zitting Cisticola	*Cisticola juncidis*	棕扇尾鶯	PM, WV	LC

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status

Note:
R – Resident; WV – Winter visitor; PM – Passage migrant; CPM - Common Passage Migrant; UPM – Uncommon passage migrant; SPM - Scarce Passage Migrant; CaM - Common autumn migrant; SaM - Scarce autumn migrant; USV - Uncommon Summer visitor; SpM – Spring migrant; Sv – Summer Visitor; SSv – Spring & Summer Visitor; UR – Uncommon resident; RR – Rare resident; SWV – Scarce winter visitor; CWV - Common Winter Visitor; M - Spring and Autumn Migrant; OV - Occasional visitor; V - Vagrant
Status was decided according to AFCD biodiversity website (www.hkbiodiversity.net)
Cap.170: All bird species are under protection of Wild Animals Protection Ordinance
Cap.586: Endangered Species of Animals and Plants Ordinance (Cap.586)
CR: Rare in China Red Data Book Status VU: Vulnerable in IUCN Red List Status (VU): Vulnerable in China Red Data Book Status
EN: Endangered in IUCN Red List Status (EN): Endangered in China Red Data Book Status NT: Near Threatened in IUCN Red List Status
(NT): Near Threatened in Red List of China Vertebrates CR: Critically Endangered in IUCN Red List Status LC(R): Least Concern in IUCN Red List Status
RC=Regional Concern; LC=Local Concern; PRC=Potential Regional Concern; GC=Global Concern; PGC=Potential Global Concern. Letters in parentheses indicate that the assessment is on the basis of restrictedness in breeding and/or roosting sites rather than in general occurrence (Fellowes et al. (2002))

Appendix L2. Freshwater Macroinvertebrate Species Recorded for Aquatic Fauna Monitoring, 25 April, 2025

Common Name	Scientific Name	Conservation Status	Occurrence Status	Date: 25 April 2025									
				Weather: Fine									
				Methods: Kick-netting, sweep netting and direct observation									
				Abundance									
				MS_01*	MS_02	MS_03	MS_04	MS_05*	MS_06	MS_07	MS_08	MS_09	MS_10
Apple Snail	*Pomacea canaliculata*	-	Introduced							+	++		+
Atyid shrimp	*Caridina sp.*	-	-										
Bladder Snail	*Physella acuta*	-	-		+		+						
Blood Worm	*Chironomidae*	-	-		++							+	+
Caddisfly	*Cheumatopsyche sp.*	-	-				++				++		
Chinese River Snail	*Sinotaia guangdungensis*	-	Native							++			
	Sinotaia quadrata		Native			++				+	+		+
Common Red Skimmer	*Orthetrum pruinosum*	-	Native				+						
Crimson Dropwing	*Trithemis aurora*	-	Native				+		+				
Freshwater Oligochaete	*Oligochaeta*	-	-				+						
Freshwater Snail	*Radix plicatulus*	-	-				++		++	++	+	+	
Giant Hooktail	*Megalogomphus sommeri*	LC	Native						+			+	
Golden Freshwater Clam	*Corbicula fluminea*	-	Native								+		
Indigo Dropwing	*Trithemis festiva*	-	Native			+	+			+		+	
Leech	*Hirudinea*	-	-			+	+						
Megaloptera	*Megaloptera*	-	-				+						
Mayfly	*Baetis sp.*	-	-										++

Common Name	Scientific Name	Conservation Status	Occurrence Status	Date: 25 April 2025									
				Weather: Fine									
				Methods: Kick-netting, sweep netting and direct observation									
				Abundance									
				MS_01*	MS_02	MS_03	MS_04	MS_05*	MS_06	MS_07	MS_08	MS_09	MS_10
	Isonychia sp.	-	-										+
Ram's Horn Snail	*Biophalaria glabrata*	-	Introduced		+		++			+			
	Gyraulus convexiusculus	-	Introduced										
Red-rimmed Melania	*Melanoides tuberculata*	-	Introduced								+	++	+
Russet Percher	*Neurothemis fulvia*	-	Native							+			
Stonefly	*Togoperla sp.*	-	-									+	
Water Strider	*Metrocoris sp.*	-	-						+		++	++	++
	Microvelia sp.	-	-										++
	Ptilomera tigrina	-	Native				++					++	
	Rhagovelia sp.	-	-								+++	+++	
Yellow Featherleg	*Copera marginipes*	-	Native				+		+				+
Total No. of species				0	3	3	12	0	5	7	8	9	9
Total No. of Conservation Interest Species				0	0	0	0	0	1	0	0	1	0
Total No. of Native Species				0	0	2	5	0	3	4	2	3	2

Note: *: dried-up station
+: species recorded within the study area (no. of individuals from 1-10)
++: species commonly recorded within the study area (no. of individuals from 11-20)
+++: most abundant species recorded within the study area (no. of individuals from 21 and above)
LC = Local Concern (Fellowes et al. (2002))

Common Name	Scientific Name	Conservation Status	Occurrence Status	Date: 25 April 2025				
				Weather: Fine				
				Methods: Kick-netting, sweep netting and direct observation				
				Abundance				
				MS_11	MS_12*	MS_13	MS_14	MS_15
Apple Snail	*Pomacea canaliculata*	-	Introduced					++
Atyid shrimp	*Caridina sp.*	-	-			++	++	
Bladder Snail	*Physella acuta*	-	-	+				++
Blood Worm	*Chironomidae*	-	-	+		++	+	
Chinese River Snail	*Sinotaia guangdungensis*	-	Native					++
	Sinotaia quadrata		Native			+	+	
Common Red Skimmer	*Orthetrum pruinosum*	-	Native				+	
Freshwater Oligochaete	*Oligochaeta*	-	-			+	+	+
Freshwater Snail	*Radix plicatulus*	-	-	+			++	++
Golden Freshwater Clam	*Corbicula fluminea*	-	Native					+
Indigo Dropwing	*Trithemis festiva*	-	Native				+	
Leech	*Hirudinea*	-	-					++
Mayfly	*Baetis sp.*	-	-			+		
Ram's Horn Snail	*Gyraulus convexiusculus*	-	Introduced					++
Red-rimmed Melania	*Melanoides tuberculata*	-	Introduced				++	++
Yellow Featherleg	*Copera marginipes*	-	Native			+		
Total No. of species				3	0	6	8	9

Common Name	Scientific Name	Conservation Status	Occurrence Status	Date: 25 April 2025				
				Weather: Fine				
				Methods: Kick-netting, sweep netting and direct observation				
				Abundance				
				MS_11	MS_12*	MS_13	MS_14	MS_15
Total No. of Conservation Interest Species				0	0	0	0	0
Total No. of Native Species				0	0	2	3	2

Note: *: dried-up station
+: species recorded within the study area (no. of individuals from 1-10)
++: species commonly recorded within the study area (no. of individuals from 11-20)
+++: most abundant species recorded within the study area (no. of individuals from 21 and above)

Appendix L3. Freshwater Fish Species Recorded for Aquatic Fauna Monitoring, 25 April, 2025

Common Name	Scientific Name	Conservation Status	Occurrence Status	Date: 25 April 2025									
				Weather: Fine									
				Methods: Kick-netting, sweep netting and direct observation									
				Abundance									
				MS_01*	MS_02	MS_03	MS_04	MS_05*	MS_06	MS_07	MS_08	MS_09	MS_10
Mosquito Fish	*Gambusia affinis*	-	Introduced			+	++		++		+	+	+
Mozambique Tilapia	*Oreochromis mossambicus*	VU	Introduced						+		+		+
Nile Tilapia	*Oreochromis niloticus*	-	Introduced						+	+	+	+	++
Redbelly Tilapia	*Tilapia zillii*	-	Introduced						+	+			
Total No. of species				0	0	1	1	0	4	2	3	2	3
Total No. of Conservation Interest Species				0	0	0	0	0	1	0	1	0	1
Total No. of Native Species				0	0	0	0	0	0	0	0	0	0

Note:
VU: Vulnerable on IUCN Red List of Threatened Species.
(VU): Vulnerable on China Red Data Book of Endangered Species.

Occurrence Status was according to The IUCN Red List of Threatened Species website (https://www.iucnredlist.org)
+: species recorded within the study area (no. of individuals from 1-10)
++: species commonly recorded within the study area (no. of individuals from 11-20)
+++: most abundant species recorded within the study area (no. of individuals from 21 and above)

Common Name	Scientific Name	Conservation Status	Occurrence Status	Date: 25 April 2025				
				Weather: Fine				
				Methods: Kick-netting, sweep netting and direct observation				
				Abundance				
				MS_11	MS_12	MS_13	MS_14	MS_15
Mosquito Fish	*Gambusia affinis*	-	Introduced			++	+	+++
Mozambique Tilapia	*Oreochromis mossambicus*	VU	Introduced				+	
Nile Tilapia	*Oreochromis niloticus*	-	Introduced				+	++
Redbelly Tilapia	*Tilapia zillii*	-	Introduced			+		++
Swordtail	*Xiphophorus hellerii*	-	Introduced			+		
Total No. of species				0	0	3	3	3
Total No. of Conservation Interest Species				0	0	0	1	0
Total No. of Native Species				0	0	0	0	0

Note:
VU: Vulnerable on IUCN Red List of Threatened Species.
(VU): Vulnerable on China Red Data Book of Endangered Species.

Occurrence Status was according to The IUCN Red List of Threatened Species website (https://www.iucnredlist.org)
+: species recorded within the study area (no. of individuals from 1-10)
++: species commonly recorded within the study area (no. of individuals from 11-20)
+++: most abundant species recorded within the study area (no. of individuals from 21 and above)

Appendix L4. Mammal Species Recorded for Ecologically Sensitive Habitat Monitoring, 7 & 30 April 2025

Common Name	Species Name	Chinese Name	Conservation Status	Occurrence Status	Date: 7/4/2025 (T1,6), 30/4/2025 (T3,4,5)				
					Relative Abundance				
					Transect Walk				
					T1	T3	T4	T5	T6
Domestic Cat	*Felis catus*	野貓		Introduced	+	+			
Domestic Dog	*Canis lupus familiaris*	野狗		Introduced	++	+	++		+
Eurasian Wild Pig	*Sus scrofa*	野豬		Native					+
Japanese Pipistrelle	*Pipistrellus abramus*	東亞家蝠	Cap. 170	Native	+++	+++	+++	+++	+++
Short-nosed Fruit Bat	*Cynopterus sphinx*	短吻果蝠	Cap. 170, (NT)	Native	+	+			
Total No. of species					4	4	2	1	3
Total No. of Conservation Interest Species					2	2	1	1	1
Total No. of Native Species					2	2	1	1	2

Note:

Cap. 170: Species under protection of Wild Animals Protection Ordinance (Cap. 170)

(NT): Near Threatened in the Red List of China's Vertebrates

Occurrence Status was according to The IUCN Red List of Threatened Species website (https://www.iucnredlist.org)

+: species recorded within transect routes

++: species commonly recorded within transect routes

+++: dominant species within transect routes

Appendix L5. Herpetofauna Species Recorded for Ecologically Sensitive Habitat Monitoring, 7 & 30 April 2025

Common Name	Species Name	Chinese Name	Conservation Status	Occurrence Status	Date: 7/4/2025 (T1,6), 30/4/2025 (T3,4,5)				
					Relative Abundance				
					Transect Walk				
					T1	T3	T4	T5	T6
Amphibian									
Asian Common Toad	*Bufo melanostictus*	黑眶蟾蜍	-	Native	+	+	+	+++	+
Asiatic Painted Forg	*Kaloula pulchra pulchra*	花狹口蛙	-	Native				+	
Brown Tree Frog	*Polypedates megacephalus*	斑腿泛樹蛙	-	Native	+			+	
Butler's Pigmy Frog	*Microhyla butleri*	粗皮姬蛙	-	Native	+				
Gunther's Frog	*Hylarana guentheri*	沼蛙	-	Native	+++			+++	
Ornate Pigmy Frog	*Microhyla fissipes*	飾紋姬蛙	-	Native	+++		+	+	
Paddy Frog	*Fejervarya limnocharis*	澤蛙	-	Native	+++			+++	
Reptile									
Bowring’s Gecko	*Hemidactylus bowringii*	原尾蜥虎	-	Native	+	+			
Chinese gecko	*Gekko chinensis*	中國壁虎	-	Native	+	+	+	+	+
Long-tailed Skink	*Eutropis longicaudata*	長尾南蜥	-	Native				+	
Total No. of species					8	3	3	8	2
Total No. of Conservation Interest Species					0	0	0	0	0
Total No. of Native Species					8	3	3	8	2

Note:
Occurrence Status was according to The IUCN Red List of Threatened Species website (https://www.iucnredlist.org)
(EN): Endangered in Red List of China Vertebrates (NT): Near Threatened in Red List of China Vertebrates
+: species recorded within transect routes ++: species commonly recorded within transect routes +++: dominant species within transect routes

Appendix L6. Butterfly Species Recorded Ecologically Sensitive Habitat Monitoring, 7 & 30 April 2025

Common Name	Species Name	Chinese Name	Conservation Status	Occurrence Status*	Date: 7/4/2025 (T1,6), 30/4/2025 (T3,4,5)				
					Relative Abundance				
					Transect Walk				
					T1	T3	T4	T5	T6
Blue-spotted Crow	*Euploea midamus*	藍點紫斑蝶	-	-					+
Bush Hopper	*Ampittia dioscorides*	黃斑弄蝶	-	-	+				
Chestnut Angle	*Odontoptilum angulatum*	角翅弄蝶	-	-	+				
Chocolate Pansy	*Junonia iphita*	鉤翅眼蛺蝶	-	-	+				
Colour Sergeant	*Athyma nefte*	相思帶蛺蝶	-	-	+			+	
Common Bluebottle	*Graphium sarpedon*	青鳳蝶	-	-		+			
Common Five-ring	*Ypthima baldus*	矍眼蝶	-	-	+			+	
Common Grass Yellow	*Eurema hecabe*	寬邊黃粉蝶	-	-	+				
Common Mapwing	*Cyrestis thyodamas*	網絲蛺蝶	-	-	+				
Common Mormon	*Papilio polytes*	玉帶鳳蝶	-	-	+++	+	++		
Common Sailer	*Neptis hylas*	中環蛺蝶	-	-	+++	+			
Common Tiger	*Danaus genutia*	虎斑蝶	-	-	+				
Dark Brand Bush Brown	*Mycalesis mineus*	小眉眼蝶	-	-	+++		+++	++	+++
Forest Hopper	*Astictopterus jama*	腌翅弄蝶	-	-	++				
Great Egg-fly	*Hypolimnas bolina*	幻紫斑蛺蝶	-	-	+++	++		+	+
Great Mormon	*Papilio memnon*	美鳳蝶	-	-	+++	+		++	++
Greenish Palm Dart	*Telicota bambusae*	竹長標弄蝶	-	-				+	
Indian Cabbage White	*Pieris canidia*	東方菜粉蝶	-	-	+++		++	+	+
Lemon Emigrant	*Catopsilia pomona*	遷粉蝶	-	-	+		+		
Pale Grass Blue	*Pseudozizeeria maha*	酢漿灰蝶	-	-	++	+++	+++	+++	

Common Name	Species Name	Chinese Name	Conservation Status	Occurrence Status*	Date: 7/4/2025 (T1,6), 30/4/2025 (T3,4,5)				
					Relative Abundance				
					Transect Walk				
					T1	T3	T4	T5	T6
Paris Peacock	*Papilio paris*	巴黎翠鳳蝶	-	-	+++		+	+	+
Plum Judy	*Abisara echerius*	蛇目褐蜆蝶	-	-	+	+			
Red Helen	*Papilio Helenus*	玉斑鳳蝶	-	-	++				
Red-base Jezebel	*Delias pasithoe*	報喜斑粉蝶	-	-					+
Short-banded Sailer	*Phaedyma columella*	柱菲蛺蝶	-	-	+				
Small White	*Pieris rapae*	菜粉蝶	-	R	+++	+++	+++	+++	+++
South China Bush Brown	*Mycalesis mineus*	平頂眉眼蝶	-	-	+				
Southern Sullied Sailer	*Neptis clinia*	珂環蛺蝶	-	-	+				
Staff Sergeant	*Athyma selenophora*	新月帶蛺蝶	-	-		+			
Tailed Jay	*Graphium agamemnon*	統帥青鳳蝶	-	-	+				
Three-spot Grass Yellow	*Eurema blanda*	檗黃粉蝶	-	-	+++		+		++
Total No. of species					26	9	8	10	9
Total No. of Conservation Interest Species					1	1	1	1	1

Note:
*Very limited data are available for the occurrence status (being native to Hong Kong) of butterflies
+: species recorded within transect routes
++: species commonly recorded within transect routes
+++: dominant species within transect routes
LC: Local Concern (Fellowes et al., 2002)
R: Rare (Chan et al. (2011))
VR: Very Rare (Chan et al. (2011))

Appendix L7. Odonata Species Recorded for Ecologically Sensitive Habitat Monitoring, 7 & 30 April 2025

Common Name	Species Name	Chinese Name	Conservation Status	Occurrence Status	Date: 7/4/2025 (T1,6), 30/4/2025 (T3,4,5)				
					Relative Abundance				
					Transect Walk				
					T1	T3	T4	T5	T6
Asian Amberwing	*Brachythemis contaminata*	黃翅蜻	-	Native	+	+			+
Common Blue Skimmer	*Orthetrum glaucum*	黑尾灰蜻	-	Native			++	+	
Green Skimmer	*Orthetrum sabina*	狹腹灰蜻	-	Native			+		
Indigo Dropwing	*Trithemis festiva*	慶褐蜻	-	Native	+	+		+	+
Orange-tailed Sprite	*Ceriagrion auranticum*	翠胸黃蟌	-	Native			+		
Pied Percher	*Neurothemis tullia tullia*	截斑脈蜻	-	Native	+				
Red-faced Skimmer	*Orthetrum chrysis*	華麗灰蜻	-	Native		+	+	+	
Variegated Flutterer	*Rhyothemis variegata*	斑麗翅蜻	-	Native	+	+	++		+
Wandering Glider	*Pantala flavescens*	黃蜻	-	Native	+++	++	+	+	+
Yellow Featherlegs	*Copera marginipes*	黃狹扇蟌	-	Native			+		
Total No. of species					5	5	7	4	4
Total No. of Conservation Interest Species					0	0	0	0	0
Total No. of Native Species					5	5	7	4	4

Common Name	Species Name	Chinese Name	Conservation Status	Occurrence Status	Date: 7/4/2025 (T1,6), 30/4/2025 (T3,4,5)				
					Relative Abundance				
					Transect Walk				
					T1	T3	T4	T5	T6

Note:

Occurrence Status was according to The IUCN Red List of Threatened Species website (https://www.iucnredlist.org)

+: species recorded within transect routes

++: species commonly recorded within transect routes

+++: dominant species within transect routes

LC: Local Concern (Fellowes et al., 2002)

APPENDIX M
WEATHER CONDITION

APPENDIX M –
GENERAL WEATHER CONDITIONS DURING THE MONITORING PERIOD

Date	Mean Air Temperature (°C)	Mean Relative Humidity (%)	Precipitation (mm)
1 April 25	16.1	67	0
2 April 25	18.6	63	0
3 April 25	20.6	57	0
4 April 25	19.9	72	Trace
5 April 25	19.3	90	7.3
6 April 25	20.5	74	Trace
7 April 25	22.1	64	0
8 April 25	23.2	72	0
9 April 25	24.1	77	0
10 April 25	24.6	80	0
11 April 25	25	85	Trace
12 April 25	24.6	81	6.9
13 April 25	21.8	32	Trace
14 April 25	22.6	49	0
15 April 25	25.8	48	0
16 April 25	24	73	0
17 April 25	24.5	78	0

Date	Mean Air Temperature (°C)	Mean Relative Humidity (%)	Precipitation (mm)
18 April 25	**24.9**	**90**	**3.5**
19 April 25	**26.3**	**86**	**0.1**
20 April 25	**27.1**	**79**	**0**
21 April 25	**26.9**	**79**	**0**
22 April 25	**27.3**	**78**	**0**
23 April 25	**27.8**	**77**	**0**
24 April 25	**27.5**	**78**	**0.5**
25 April 25	**25.2**	**88**	**18.9**
26 April 25	**22.3**	**85**	**Trace**
27 April 25	**22.2**	**92**	**0.8**
28 April 25	**25.3**	**85**	**19.1**
29 April 25	**25.4**	**64**	**0**
30 April 25	**25.2**	**75**	**0**

* The above information was extracted from the daily weather summary by Hong Kong Observatory.

**Trace means rainfall less than 0.05 mm.

APPENDIX N
EVENT ACTION PLANS

Appendix N:

Table N-1: Event / Action Plan for Air Quality

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
ACTION LEVEL				
1. Exceedance for one sample	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform IEC,ER and Contractor; 3. Repeat measurement to confirm finding; and 4. Increase monitoring frequency to daily.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; and 3. Review and advise the ET and ER on the effectiveness of the proposed remedial measures.	1. Notify Contractor.	1. Identify source, investigate the causes of exceedance and propose remedial measures 2. Rectify any unacceptable practice and implement remedial measures; and 3. Amend working methods agreed with ER if appropriate.
2. Exceedance for two or more consecutive samples	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform IEC,ER and Contractor; 3. Advise the ER and Contractor on the effectiveness of the proposed remedial measures; 4. Repeat measurements	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ET and ER on the effectiveness of the proposed remedial measures; and 5. Supervise	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; and 3. Supervise and ensure remedial measures properly implemented.	1. Identify source, investigate the causes of exceedance and propose remedial measures 2. Submit proposals for remedial actions to ER with a copy to ET and IEC within 3 working days of notification; 3. Implement the

	to confirm findings; 5. Increase monitoring frequency to daily; 6. Discuss with IEC, ER and Contractor on remedial actions required; 7. If exceedance continues, arrange meeting with IEC and ER; and 8. If exceedance stops, cease additional monitoring.	Implementation of remedial measures.		agreed proposals; and 4. Amend proposal if appropriate.
LIMIT LEVEL				
1.Exceedance for one sample	Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform ER, Contractor, IEC and EPD; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; 5. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET, ER and Contractor on possible remedial measures; 4. Advise the ER and ET on the effectiveness of the proposed remedial measures; 5. Supervise implementation of remedial	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; and 3. Supervise and ensure remedial measures properly implemented.	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Take immediate action to avoid further exceedance; 3. Submit proposals for remedial actions to ER with a copy to ET and IEC within 3 working days of notification; 4. Implement the agreed proposals; and 5. Amend proposal if appropriate.

		measures.		
2.Exceedance for two or more consecutive samples	1. Notify IEC, ER, Contractor and EPD; 2. Identify source; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency to daily; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Arrange meeting with IEC, Contractor and ER to discuss the remedial actions to be taken; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; 8. If exceedance stops, cease additional monitoring.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 4. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; and 5. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consultation with the ET and IEC, agree with the Contractor on the remedial measures to be implemented; 4. Supervise and ensure remedial measures properly implemented; and 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Take immediate action to avoid further exceedance; 3. Submit proposals for remedial actions to ER with a copy to ET and IEC within 3 working days of notification; 4. Implement the agreed proposals; 5. Resubmit proposals if problem still not under control; 6. Stop the relevant portion of works as determined by the ER until the exceedance is abated.

Abbreviations: ET – Environmental Team, IEC – Independent Environmental Checker, ER – Engineer's Representative

Table N-2: Event / Action Plan for Construction Noise

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

EVENT	ACTION			
	ET	**IEC**	**ER**	**CONTRACTOR**
	7. Assess effectiveness of Contractor's remedial actions and keep IEC informed of the results; 8. If exceedance stops, cease additional monitoring.		Contractor to stop that portion of work until the exceedance is abated.	determined by the ER until the exceedance is abated.

Abbreviations: ET – Environmental Team, IEC – Independent Environmental Checker, ER – Engineer's Representative

Table N-3: Event / Action Plan for Water Quality

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
Action level being exceeded by one sampling day	1. Conduct addition site investigation on the same day; 2. Inform IEC, Contractor and ER; 3. Check monitoring data, all plant, equipment, Contractor's working methods and other relative information; 4. Review proposals on remedial measures submitted by Contractor; 5. Discuss remedial measures with IEC and Contractor and ER; and 6. Review submit proposal and ensure the effectiveness of the implemented mitigation measures.	1. Discuss with ET, ER and Contractor on the implemented mitigation measures; 2. Review proposals on remedial measures submitted by Contractor and advise the ER accordingly; and 3. Review submit proposal and advise the ET and ER on the Effectiveness of the implemented mitigation measures.	1. Review proposals on remedial measures submitted by Contractor; 2. Discuss with IEC, ET and Contractor on the Implemented mitigation measures; 3. Make agreement on the remedial measures to be implemented; and 4. Supervise the implementation of agreed remedial measures.	1. Identify source(s) of impact; 2. Inform the ER and confirm notification of the noncompliance in writing; 3. Rectify unacceptable practice; 4. Check all plant and equipment; 5. Consider changes of working methods; 6. Discuss with ER, ET and IEC and submit proposal of remedial measures to ER and IEC; and 7. Implement the agreed mitigation measures.
Action level being exceeded by more than one consecutive sampling days	1. Conduct addition site investigation on the same day; 2. Inform IEC, Contractor and ER; 3. Check monitoring data, all plant, equipment,	1. Discuss with ET, Contractor and ER on the implemented mitigation measures; 2. Review the proposed remedial measures submitted by Contractor and advise	1. Discuss with ET, IEC and Contractor on the proposed mitigation measures; 2. Make agreement on the remedial measures to be implemented; and	1. Identify source(s) of impact; 2. Inform the ER and confirm notification of the non-compliance in writing; 3. Rectify unacceptable

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
	Contractor's working methods and other relative information; 4. Discuss remedial measures with IEC, contractor and ER; and 5. Review submit proposal and ensure the agreed remedial measures are implemented	the ER accordingly; and 3. Review and advise the ET and ER on the effectiveness of the implemented mitigation measures.	3. Discuss with ET, IEC and Contractor on the effectiveness of the implemented remedial measures	practice; 4. Check all plant and equipment and consider changes of working methods; 5. Discuss with ET, IEC and ER and submit proposal of remedial measures to ER and IEC within 3 working days of notification; and 6. Implement the agreed mitigation measures.
Limit level being exceeded by one sampling day	1. Conduct addition site investigation on the same day; 2. Inform IEC, Contractor and ER; 3. Rectify unacceptable practice; 4. Check monitoring data, all plant, equipment, Contractor's working methods and other relative information; 5. Consider changes of working methods; 6. Discuss mitigation measures with IEC, ER and Contractor; 7. Review the submit	1. Discuss with ET, Contractor and ER on the implemented mitigation measures; 2. Review the proposed remedial measures submitted by Contractor and advise the ER accordingly; and 3. Review and advise the ET and ER on the effectiveness of the implemented mitigation measures.	1. Discuss with ET, IEC and Contractor on the implemented remedial measures; 2. Request Contractor to critically review the working methods; 3. Make agreement on the remedial measures to be implemented; and 4. Discuss with ET, IEC and Contractor on the effectiveness of the implemented remedial measures.	1. Identify source(s) of impact; 2. Inform the ER and confirm notification of the noncompliance in writing; 3. Rectify unacceptable practice; 4. Check all plant and equipment and consider changes of working methods; 5. Discuss with ET, IEC and ER and submit proposal of additional mitigation measures to ER and IEC within 3 working days of

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
	proposal and ensure the agreed remedial measures are implemented;			notification; and 6. Implement the agreed remedial measures.
Limit level being exceeded by more than one consecutive sampling days	1. Conduct addition site investigation on the same day; 2. Inform IEC, contractor and ER; 3. Check monitoring data, all plant, equipment, Contractor's working methods and other relative information; 4. Discuss mitigation measures with IEC, ER and Contractor; and 5. Review the submit proposal and ensure the agreed remedial measures are implemented.	1. Discuss with ET, Contractor and ER on the implemented mitigation measures; 2. Review the proposed remedial measures submitted by Contractor and advise the ER accordingly; and 3. Review and advise the ET and ER on the effectiveness of the implemented mitigation measures.	1. Discuss with ET, IEC and Contractor on the implemented remedial measures 2. Request Contractor to critically review the working methods; 3. Make agreement on the remedial measures to be implemented; 4. Discuss with ET and IEC on the effectiveness of the implemented mitigation measures; and 5. Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the dredging activities until no exceedance of Limit level.	1. Identify source(s) of impact; 2. Inform the ER and confirm notification of the noncompliance in writing; 3. Rectify Unacceptable practice; 4. Check all plant and equipment and consider changes of working methods; 5. Discuss with ET, IEC and ER and submit proposal of additional mitigation measures to ER and IEC within 3 working days of notification; and 6. Implement the agreed remedial measures. 7. As directed by the ER, to slow down or stop all or part of the dredging activities until no exceedance of Limit level.

Abbreviations: ET – Environmental Team, IEC – Independent Environmental Checker, ER – Engineer's Representative

Table N-4: Actions in the event of LFG being detected

Parameter	Monitoring Results	Actions
O_2	<19% v/v	Increase underground ventilation to restore O_2 to >19% v/v
	<18% v/v	Stop works, evacuate all personnel, prohibit entry, and increase ventilation to restore O_2 level to >19%
CH_4	>10% LEL	Prohibit hot works, increase ventilation to restore CH4 to <10% LEL
	>20% LEL	Stop works, evacuate all personnel, increase ventilation further to restore CH_4 to <10% LEL
CO_2	>0.5% v/v	Increase ventilation to restore C O_2 to <0.5% v/v
	>1.5% v/v	Stop works, evacuate all personnel, increase ventilation further to restore CO_2 to <0.5%

Note: Depending on the results of the measurements, actions required will vary and should be set down by the Safety Officer or another appropriately qualified person. As a minimum these should encompass those actions specified in the above table.

Table N-5: Event / Action Plan for Ambient Arsenic Monitoring

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
ACTION LEVEL				
1. Exceedance for one sample	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform IEC,ER and Contractor; 3. Repeat measurement to confirm finding; and 4. Increase monitoring frequency to daily.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; and 3. Review and advise the ET and ER on the effectiveness of the proposed remedial measures.	1. Notify Contractor.	1. Rectify any unacceptable practice; 2. Amend working methods if appropriate
2. Exceedance for two or more consecutive samples	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform IEC,ER and Contractor; 3. Advise the ER and Contractor on the effectiveness of the proposed remedial measures; 4. Repeat measurements to confirm findings; 5. Increase monitoring frequency to daily; 6. Discuss with IEC, ER and Contractor on remedial	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ET and ER on the effectiveness of the proposed remedial measures; and 5. Supervise Implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; and 3. Supervise and ensure remedial measures properly implemented.	1. Submit proposals for remedial actions to ER with a copy to ET and IEC within 3 working days of notification; 2. Implement the agreed proposals; and 3. Amend proposal if appropriate.

	actions required; 7. If exceedance continues, arrange meeting with IEC and ER; and 8. If exceedance stops, cease additional monitoring.			
LIMIT LEVEL				
1.Exceedance for one sample	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Inform ER, Contractor, IEC and EPD; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; 5. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET, ER and Contractor on possible remedial measures; 4. Advise the ER and ET on the effectiveness of the proposed remedial measures; 5. Supervise implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; and 3. Supervise and ensure remedial measures properly implemented.	1. Identify source, investigate the causes of exceedance and propose remedial measures; 2. Take immediate action to avoid further exceedance; 3. Submit proposals for remedial actions to ER with a copy to ET and IEC within 3 working days of notification; 4. Implement the agreed proposals; and 5. Amend proposal if appropriate.
2.Exceedance for two or more consecutive samples	1. Notify IEC, ER, Contractor and EPD; 2. Identify source; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency to daily; 5. Carry out analysis of Contractor's working	1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consultation with the ET and IEC, agree with the Contractor on the	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to ER with a copy to ET and IEC within 3 working days of notification;

	procedures to determine possible mitigation to be implemented; 6. Arrange meeting with IEC, Contractor and ER to discuss the remedial actions to be taken; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; 8. If exceedance stops, cease additional monitoring.	their effectiveness and advise the ER accordingly; 3. Supervise the implementation of remedial measures	remedial measures to be implemented; 4. Supervise and ensure remedial measures properly implemented; and 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedanceis abated.	3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. Stop the relevant portion of works as determined by the ER until the exceedance is abated.

Abbreviations: ET – Environmental Team, IEC – Independent Environmental Checker, ER – Engineer's Representative

Table N-6.1 Action and Limit Levels and Responses for Avifauna Monitoring and General Site Inspection in the LVNP during Construction Phase.

EVENT	RESPONSE			
	ET	IEC	Contractor	Project Proponent
AVIFAUNA MONITORING				
Action Level exceeded.	1.Check monitoring data and repeat data analysis to confirm findings; 2.Review relevant ecological data to check if the exceedance is due to natural variation or is construction works related; 3.Identify potential source(s) of impact; 4.Immediately inform IEC, Contractor and PP. 5.Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified; and 6.Conduct necessary site inspections/audits to ensure all remedial	1.Check monitoring data, analysis and investigation by ET; 2.Review the remedial measure(s) proposed by the Contractor and advise the PP accordingly; and 3.Conduct necessary site inspections/ audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP and feedback the audit results to the PP.	1.Confirm receipt of notification of the exceedance of Action Level in writing; and 2. Propose and implement the remedial measures(s) to mitigate the impact(s) identified.	1. Check the monitoring results and findings from ET and IEC; 2. Discuss the need for increased site inspection/audit frequency proposed by ET with IEC and the Contractor; and 3. Supervise the instigated further mitigation measure(s).

	measures are properly implemented by the Contractor, as agreed with the PP.			
Limit Level exceeded.	1. Check monitoring data and repeat data analysis to confirm findings; 2. Identify potential source(s) of impact; 3. Immediately inform IEC, Contractor and PP. 4. Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified; 5. Discuss with the PP, IEC, and Contractor on the need for further mitigation measure(s); and 6. Conduct necessary site inspections/audits to ensure all remedial measures are properly	1.Check monitoring data, analysis and investigation by ET; 2.Discuss with the PP, ET, and Contractor on the need for further mitigation measure(s); 3.Review the effectiveness of the further mitigation measure(s) proposed and implemented by Contractor and advise the PP accordingly; 4.Review the remedial measure(s) proposed by the Contractor and advise the PP accordingly; and 5.Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP and	1. Confirm receipt of notification of the exceedance of Limit Level in writing; 2. Discuss with the PP, IEC, and ET on the need of further mitigation measure(s), then propose and implement the further mitigation measure(s); and 3. Propose and implement the remedial measures(s) to mitigate the impact(s) identified.	1.Check the monitoring results and findings from ET and IEC; 2.Discuss the need for increased site inspection and audit frequency proposed by ET with IEC and the Contractor; 3.Discuss and confirm the further mitigation measure(s) required with the ET, IEC, and Contractor; and 4.Supervise the instigated further mitigation measure(s).

	implemented by the Contractor, as agreed with the PP.	feedback the audit results to the PP.		
General Site Inspection				
Action Level exceeded.	1. Investigate if the activity identified is related to the construction works; 2. Immediately inform IEC, Contractor and PP. 3. Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified; and 4. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP.	1.Check the investigation and findings of the ET; 2.Review the remedial measure(s) proposed by the Contractor and advise the PP accordingly; and 3.Conduct necessary site inspections/ audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP and feedback the audit results to the PP.	1. Confirm receipt of notification of the exceedance of Action Level in writing; and 2. Propose and implement the remedial measures(s) to mitigate the impact(s) of the activity identified.	1. Check the investigation and findings of the ET and IEC; 2. Discuss the need for increased site inspection/audit frequency proposed by ET with IEC and the Contractor; and 3. Supervise the instigated further mitigation measure(s).
Limit Level exceeded	1. Investigate if the activity identified is related to the construction works;	1. Check the investigation and findings or the ET; 2. Discuss with the PP,	1. Confirm receipt of notification of the exceedance of Limit Level in writing;	1. Check the monitoring results and findings from ET and IEC; 2. Discuss the need for

	2. Immediately inform IEC, Contractor and PP. 3. Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified; 4. Discuss with the PP, IEC, and Contractor on the need for further mitigation measure(s); and 5. Conduct necessary site inspections/ audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP.	ET, and Contractor on the need for further mitigation measure(s); 3. Review the effectiveness of the further mitigation measure(s) proposed and implemented by Contractor and advise the PP accordingly; 4. Review the remedial measure(s) proposed by the Contractor and advise the PP accordingly; and 5. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP and feedback the audit results to the PP.	2. Discuss with the PP, IEC, and ET on the need of further mitigation measure(s), then propose and implement the further mitigation measure(s); and 3. Propose and implement the remedial measures(s) to mitigate the impact(s) identified.	increased site inspection and audit frequency proposed by ET with IEC and the Contractor; 3. Discuss and confirm the further mitigation measure(s) required with the ET, IEC, and Contractor; and 4. Supervise the instigated further mitigation measure(s).

Table N-6.2 Action and Limit Levels and Responses to Evidence of Disturbance to Waterbirds using in Ng Tung, Sheung Yue and Shek Sheung Rivers

EVENT	RESPONSE			
	ET	IEC	Contractor	Project Proponent
Construction Phase				
Action Level	1. Check monitoring	1.Check monitoring data,	1. Confirm receipt of	1. Check the monitoring

exceeded.	data and repeat data analysis to confirm findings; 2.Review relevant ecological data to check if the exceedance is due to natural variation or is construction works related; 3.Identify potential source(s) of impact; 4.Immediately inform IEC, Contractor and PP. 5.Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified; and 6.Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP.	analysis and investigation by ET; 2.Review the remedial measure(s) proposed by the Contractor and advise the PP accordingly; and 3.Conduct necessary site inspections/ audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP and feedback the audit results to the PP.	notification of the exceedance of Action Level in writing; and 2. Propose and implement the remedial measures(s) to mitigate the impact(s) identified.	results and findings from ET and IEC; 2. Discuss the need for increased site inspection/audit frequency proposed by ET with IEC and the Contractor; and 3. Supervise the instigated further mitigation measure(s).

Limit Level Exceeded.	1. Check monitoring data and repeat data analysis to confirm findings; 2. Identify potential source(s) of impact; 3. Immediately inform IEC, Contractor and PP. 4. Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified; 5. Discuss with the PP, IEC, and Contractor on the need for further mitigation measure(s); and 6. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP.	1.Check monitoring data, analysis and investigation by ET; 2.Discuss with the PP, ET, and Contractor on the need for further mitigation measure(s); 3.Review the effectiveness of the further mitigation measure(s) proposed and implemented by Contractor and advise the PP accordingly; 4.Review the remedial measure(s) proposed by the Contractor and advise the PP accordingly; and 5.Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP and feedback the audit results to the PP.	1. Confirm receipt of notification of the exceedance of Limit Level in writing; 2. Discuss with the PP, IEC, and ET on the need of further mitigation measure(s), then propose and implement the further mitigation measure(s); and 3. Propose and implement the remedial measures(s) to mitigate the impact(s) identified.	1.Check the monitoring results and findings from ET and IEC; 2.Discuss the need for increased site inspection and audit frequency proposed by ET with IEC and the Contractor; 3.Discuss and confirm the further mitigation measure(s) required with the ET, IEC, and Contractor; and 4.Supervise the instigated further mitigation measure(s).
Operational Phase				
Action Level	1. Check monitoring	1.Check monitoring	1. Confirm receipt of	1. Check the monitoring

exceeded.	data and repeat data analysis to confirm findings; 2. Review relevant ecological data to check if the exceedance is due to natural variation or is construction works related; 3. Identify potential source(s) of impact; 4. Immediately inform IEC, Contractor and PP. 5. Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified; and 6. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP.	data, analysis and investigation by ET; 2.Review the remedial measure(s) proposed by the Contractor and advise the PP accordingly; and 3.Conduct necessary site inspections/ audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP and feedback the audit results to the PP.	notification of the exceedance of Action Level in writing; and 2. Propose and implement the remedial measures(s) to mitigate the impact(s) identified.	results and findings from ET and IEC; 2. Discuss the need for increased site inspection/audit frequency proposed by ET with IEC and the Contractor; and 3. Supervise the instigated further mitigation measure(s).

Limit Level exceeded.	1. Check monitoring data and repeat data analysis to confirm findings; 2. Identify potential source(s) of impact; 3. Immediately inform IEC, Contractor and PP. 4. Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified; 5. Discuss with the PP, IEC, and Contractor on the need for further mitigation measure(s); and 6. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP.	1.Check monitoring data, analysis and investigation by ET; 2.Discuss with the PP, ET, and Contractor on the need for further mitigation measure(s); 3.Review the effectiveness of the further mitigation measure(s) proposed and implemented by Contractor and advise the PP accordingly; 4.Review the remedial measure(s) proposed by the Contractor and advise the PP accordingly; and 5.Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP and feedback the audit results to the PP.	1. Confirm receipt of notification of the exceedance of Limit Level in writing; 2. Discuss with the PP, IEC, and ET on the need of further mitigation measure(s), then propose and implement the further mitigation measure(s); and 3. Propose and implement the remedial measures(s) to mitigate the impact(s) identified.	1. Check the monitoring results and findings from ET and IEC; 2. Discuss the need for increased site inspection and audit frequency proposed by ET with IEC and the Contractor; 3. Discuss and confirm the further mitigation measure(s) required with the ET, IEC, and Contractor; and 4. Supervise the instigated further mitigation measure(s).

Table N-6.3 Action and Limit Levels and Responses to Evidence of Declines in Aquatic Fauna

EVENT	RESPONSE			
	ET	**IEC**	**Contractor**	**Project Proponent**
Construction Phase				
Action Level exceeded.	1. Check monitoring data and repeat data analysis to confirm findings; 2. Review relevant ecological data to check if the exceedance is due to natural variation or is construction works related; 3. Identify potential source(s) of impact; 4. Immediately inform IEC, Contractor and PP. 5. Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified; and 6. Conduct necessary site inspections/audits to ensure all remedial measures are properly	1.Check monitoring data, analysis and investigation by ET; 2.Review the remedial measure(s) proposed by the Contractor and advise the PP accordingly; and 3.Conduct necessary site inspections/ audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP and feedback the audit results to the PP.	1. Confirm receipt of notification of the exceedance of Action Level in writing; and 2. Propose and implement the remedial measures(s) to mitigate the impact(s) identified.	1. Check the monitoring results and findings from ET and IEC; 2. Discuss the need for increased site inspection/audit frequency proposed by ET with IEC and the Contractor; and 3. Supervise the instigated further mitigation measure(s).

	implemented by the Contractor, as agreed with the PP.			
Limit Level exceeded.	1. Check monitoring data and repeat data analysis to confirm findings; 2. Review relevant ecological data to check if the exceedance is due to natural variation or is construction works related; 3. Identify potential source(s) of impact; 4. Immediately inform IEC, Contractor and PP. 5. Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified; 6. Discuss with the PP, IEC, and Contractor on the need for further mitigation measure(s); and	1. Check monitoring data, analysis and investigation by ET; 2. Discuss with the PP, ET, and Contractor on the need for further mitigation measure(s); 3. Review the effectiveness of the further mitigation measure(s) proposed and implemented by Contractor and advise the PP accordingly; 4. Review the remedial measure(s) proposed by the Contractor and advise the PP accordingly; and 5. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP and feedback the audit	1. Confirm receipt of notification of the exceedance of Limit Level in writing; 2. Discuss with the PP, IEC, and ET on the need of further mitigation measure(s), then propose and implement the further mitigation measure(s); and 3. Propose and implement the remedial measures(s) to mitigate the impact(s) identified.	1. Check the monitoring results and findings from ET and IEC; 2. Discuss the need for increased site inspection and audit frequency proposed by ET with IEC and the Contractor; 3. Discuss and confirm the further mitigation measure(s) required with the ET, IEC, and Contractor; and 4. Supervise the instigated further mitigation measure(s).

	7. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP.	results to the PP.		
Operational Phase				
Action Level exceeded.	1. Check monitoring data and repeat data analysis to confirm findings; 2. Review relevant ecological data to check if the exceedance is due to natural variation or is construction works related; 3. Identify potential source(s) of impact; 4. Immediately inform IEC, Contractor and PP. 5. Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified;	1.Check monitoring data, analysis and investigation by ET; 2.Review the remedial measure(s) proposed by the Contractor and advise the PP accordingly; and 3.Conduct necessary site inspections/ audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP and feedback the audit results to the PP.	1. Confirm receipt of notification of the exceedance of Action Level in writing; and 2. Propose and implement the remedial measures(s) to mitigate the impact(s) identified.	1. Check the monitoring results and findings from ET and IEC; 2. Discuss the need for increased site inspection/audit frequency proposed by ET with IEC and the Contractor; and 3. Supervise the instigated further mitigation measure(s).

	and 6. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP.			
Limit Level exceeded.	1. Check monitoring data and repeat data analysis to confirm findings; 2. Review relevant ecological data to check if the exceedance is due to natural variation or is construction works related; 3. Identify potential source(s) of impact; 4. Immediately inform IEC, Contractor and PP. 5. Discuss with the Contractor on the remedial measure(s) to mitigate the	1. Check monitoring data, analysis and investigation by ET; 2. Discuss with the PP, ET, and Contractor on the need for further mitigation measure(s); 3. Review the effectiveness of the further mitigation measure(s) proposed and implemented by Contractor and advise the PP accordingly; 4. Review the remedial measure(s) proposed by the Contractor and advise the PP accordingly; and	1. Confirm receipt of notification of the exceedance of Limit Level in writing; 2. Discuss with the PP, IEC, and ET on the need of further mitigation measure(s), then propose and implement the further mitigation measure(s); and 3. Propose and implement the remedial measures(s) to mitigate the impact(s) identified.	1. Check the monitoring results and findings from ET and IEC; 2. Discuss the need for increased site inspection and audit frequency proposed by ET with IEC and the Contractor; 3. Discuss and confirm the further mitigation measure(s) required with the ET, IEC, and Contractor; and 4. Supervise the instigated further mitigation measure(s).

	impact(s) identified; 6. Discuss with the PP, IEC, and Contractor on the need for further mitigation measure(s); and 7. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP.	5. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP and feedback the audit results to the PP.		

Table N-6.4 Action and Limit Levels and Responses to Evidence of Declines in the Seasonal Non-aquatic Fauna (Herptofauna, Butterfly and Odonates) in Ecologically Sensitive Habitats

EVENT	**RESPONSE**			
	ET	**IEC**	**Contractor**	**Project Proponent**
Construction Phase				
Action Level exceeded.	1. Check monitoring data and repeat data analysis to confirm findings; 2. Review relevant ecological data to check if the exceedance is due to natural variation or is	1.Check monitoring data, analysis and investigation by ET; 2.Review the remedial measure(s) proposed by the Contractor and advise the PP accordingly; and	1. Confirm receipt of notification of the exceedance of Action Level in writing; and 2. Propose and implement the remedial measures(s) to mitigate the impact(s) identified.	1. Check the monitoring results and findings from ET and IEC; 2. Discuss the need for increased site inspection/audit frequency proposed by ET with IEC and the Contractor; and

	construction works related; 3. Identify potential source(s) of impact; 4. Immediately inform IEC, Contractor and PP. 5. Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified; and 6. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP.	3.Conduct necessary site inspections/ audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP and feedback the audit results to the PP.		3. Supervise the instigated further mitigation measure(s).
Limit Level exceeded.	1. Check monitoring data and repeat data analysis to confirm findings; 2. Review relevant ecological data to check if the exceedance is due to	1.Check monitoring data, analysis and investigation by ET; 2.Discuss with the PP, ET, and Contractor on the need for further mitigation measure(s);	1. Confirm receipt of notification of the exceedance of Limit Level in writing; 2. Discuss with the PP, IEC, and ET on the need of further mitigation measure(s),	1. Check the monitoring results and findings from ET and IEC; 2. Discuss the need for increased site inspection and audit frequency proposed by ET with IEC and the

	natural variation or is construction works related; 3. Identify potential source(s) of impact; 4. Immediately inform IEC, Contractor and PP. 5. Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified; 6. Discuss with the PP, IEC, and Contractor on the need for further mitigation measure(s); and 7. Conduct necessary site inspections/audit s to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP.	3.Review the effectiveness of the further mitigation measure(s) proposed and implemented by Contractor and advise the PP accordingly; 4.Review the remedial measure(s) proposed by the Contractor and advise the PP accordingly; and 5.Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP and feedback the audit results to the PP.	then propose and implement the further mitigation measure(s); and 3. Propose and implement the remedial measures(s) to mitigate the impact(s) identified.	Contractor; 3. Discuss and confirm the further mitigation measure(s) required with the ET, IEC, and Contractor; and 4. Supervise the instigated further mitigation measure(s).
Operational Phase				

Action Level exceeded.	1. Check monitoring data and repeat data analysis to confirm findings; 2. Review relevant ecological data to check if the exceedance is due to natural variation or is construction works related; 3. Identify potential source(s) of impact; 4. Immediately inform IEC, Contractor and PP. 5. Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified; and 6. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP.	1.Check monitoring data, analysis and investigation by ET; 2.Review the remedial measure(s) proposed by the Contractor and advise the PP accordingly; and 3.Conduct necessary site inspections/ audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP and feedback the audit results to the PP.	1. Confirm receipt of notification of the exceedance of Action Level in writing; and 2. Propose and implement the remedial measures(s) to mitigate the impact(s) identified.	1. Check the monitoring results and findings from ET and IEC; 2. Discuss the need for increased site inspection/audit frequency proposed by ET with IEC and the Contractor; and 3. Supervise the instigated further mitigation measure(s).

Limit Level exceeded.	1. Check monitoring data and repeat data analysis to confirm findings; 2. Review relevant ecological data to check if the exceedance is due to natural variation or is construction works related; 3. Identify potential source(s) of impact; 4. Immediately inform IEC, Contractor and PP. 5. Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified; 6. Discuss with the PP, IEC, and Contractor on the need for further mitigation measure(s); and 7. Conduct necessary	1. Check monitoring data, analysis and investigation by ET; 2. Discuss with the PP, ET, and Contractor on the need for further mitigation measure(s); 3. Review the effectiveness of the further mitigation measure(s) proposed and implemented by Contractor and advise the PP accordingly; 4. Review the remedial measure(s) proposed by the Contractor and advise the PP accordingly; and 5. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP and feedback the audit results to the PP.	1. Confirm receipt of notification of the exceedance of Limit Level in writing; 2. Discuss with the PP, IEC, and ET on the need of further mitigation measure(s), then propose and implement the further mitigation measure(s); and 3. Propose and implement the remedial measures(s) to mitigate the impact(s) identified.	1. Check the monitoring results and findings from ET and IEC; 2. Discuss the need for increased site inspection and audit frequency proposed by ET with IEC and the Contractor; 3. Discuss and confirm the further mitigation measure(s) required with the ET, IEC, and Contractor; and 4. Supervise the instigated further mitigation measure(s).

	site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP.			

Table N-6.5 Action and Limit Levels and Responses to Evidence of Declines in the Non-seasonal Non-aquatic Fauna (Mammals) in Ecologically Sensitive Habitats

EVENT	RESPONSE			
	ET	**IEC**	**Contractor**	**Project Proponent**
Construction Phase				
Action Level exceeded.	1. Check monitoring data and repeat data analysis to confirm findings; 2. Review relevant ecological data to check if the exceedance is due to natural variation or is construction works related; 3. Identify potential source(s) of impact; 4. Immediately inform IEC, Contractor and PP.	1. Check monitoring data, analysis and investigation by ET; 2. Review the remedial measure(s) proposed by the Contractor and advise the PP accordingly; and 3. Conduct necessary site inspections/ audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP and feedback the audit	1. Confirm receipt of notification of the exceedance of Action Level in writing; and 2. Propose and implement the remedial measures(s) to mitigate the impact(s) identified.	1. Check the monitoring results and findings from ET and IEC; 2. Discuss the need for increased site inspection/audit frequency proposed by ET with IEC and the Contractor; and 3. Supervise the instigated further mitigation measure(s).

	5. Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified; and 6. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP.	results to the PP.		
Limit Level exceeded.	1. Check monitoring data and repeat data analysis to confirm findings; 2. Review relevant ecological data to check if the exceedance is due to natural variation or is construction works related; 3. Identify potential source(s) of impact; 4. Immediately inform IEC, Contractor and PP.	1. Check monitoring data, analysis and investigation by ET; 2. Discuss with the PP, ET, and Contractor on the need for further mitigation measure(s); 3. Review the effectiveness of the further mitigation measure(s) proposed and implemented by Contractor and advise the PP accordingly; 4. Review the remedial measure(s) proposed by the Contractor and advise the PP	1. Confirm receipt of notification of the exceedance of Limit Level in writing; 2. Discuss with the PP, IEC, and ET on the need of further mitigation measure(s), then propose and implement the further mitigation measure(s); and 3. Propose and implement the remedial measures(s) to mitigate the impact(s) identified.	1. Check the monitoring results and findings from ET and IEC; 2. Discuss the need for increased site inspection and audit frequency proposed by ET with IEC and the Contractor; 3. Discuss and confirm the further mitigation measure(s) required with the ET, IEC, and Contractor; and 4. Supervise the instigated further mitigation measure(s).

	5. Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified; 6. Discuss with the PP, IEC, and Contractor on the need for further mitigation measure(s); and 7. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP.	accordingly; and 5. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP and feedback the audit results to the PP.		
Operational Phase				
Action Level exceeded.	1. Check monitoring data and repeat data analysis to confirm findings; 2. Review relevant ecological data to	1.Check monitoring data, analysis and investigation by ET; 2.Review the remedial measure(s) proposed by the Contractor and	1. Confirm receipt of notification of the exceedance of Action Level in writing; and 2. Propose and implement the	1. Check the monitoring results and findings from ET and IEC; 2. Discuss the need for increased site inspection/audit

	check if the exceedance is due to natural variation or is construction works related; 3. Identify potential source(s) of impact; 4. Immediately inform IEC, Contractor and PP. 5. Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified; and 6. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP.	advise the PP accordingly; and 3.Conduct necessary site inspections/ audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP and feedback the audit results to the PP.	remedial measures(s) to mitigate the impact(s) identified.	frequency proposed by ET with IEC and the Contractor; and 3. Supervise the instigated further mitigation measure(s).
Limit Level exceeded.	1. Check monitoring data and repeat data analysis to confirm findings;	1. Check monitoring data, analysis and investigation by ET;	1. Confirm receipt of notification of the exceedance of Limit Level in writing;	1. Check the monitoring results and findings from ET and IEC;

	2. Review relevant ecological data to check if the exceedance is due to natural variation or is construction works related; 3. Identify potential source(s) of impact; 4. Immediately inform IEC, Contractor and PP. 5. Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified; 6. Discuss with the PP, IEC, and Contractor on the need for further mitigation measure(s); and 7. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed	2. Discuss with the PP, ET, and Contractor on the need for further mitigation measure(s); 3. Review the effectiveness of the further mitigation measure(s) proposed and implemented by Contractor and advise the PP accordingly; 4. Review the remedial measure(s) proposed by the Contractor and advise the PP accordingly; and 5. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP and feedback the audit results to the PP.	2. Discuss with the PP, IEC, and ET on the need of further mitigation measure(s), then propose and implement the further mitigation measure(s); and 3. Propose and implement the remedial measures(s) to mitigate the impact(s) identified.	2. Discuss the need for increased site inspection and audit frequency proposed by ET with IEC and the Contractor; 3. Discuss and confirm the further mitigation measure(s) required with the ET, IEC, and Contractor; and 4. Supervise the instigated further mitigation measure(s).

	with the PP.			

APPENDIX O
SUMMARY OF EXCEEDANCE

Appendix O: Exceedance Report

(A) Exceedance Report for Air Quality

Environmental Monitoring	Parameter	No. of non-project related Exceedance		No. of Exceedance related to the Construction Activities of this Contract	
		Action Level	Limit Level	Action Level	Limit Level
Air Quality	1-hr TSP	0	0	0	0
	24-hr TSP	0	0	0	0
	24-hr RSP (Ambient Arsenic)	0	0	0	0

(B) Exceedance Report for Construction Noise

Environmental Monitoring	Parameter	No. of non-project related Exceedance		No. of Exceedance related to the Construction Activities of this Contract	
		Action Level	Limit Level	Action Level	Limit Level
Noise	$L_{eq(30\ min.)}$ dB(A)	0	0	0	0

(C) Exceedance Report for Water Quality

Environmental Monitoring	Parameter	No. of non-project related Exceedance		No. of Exceedance related to the Construction Activities of this Contract	
		Action Level	Limit Level	Action Level	Limit Level
Water Quality	DO	0	6	0	0
	Turbidity	0	3	0	0
	SS	0	0	0	0
	Arsenic	0	0	0	0

(D) Exceedance Report for Landfill Gas

Environmental Monitoring	Parameter	No. of non-project related Exceedance		No. of Exceedance related to the Construction Activities of this Contract	
		Action Level	Limit Level	Action Level	Limit Level
Landfill Gas	O_2 (% v/v) CH_4 (% LEL) CO_2 (%v/v)	0	0	0	0

(E) Exceedance Report for Built Heritage Monitoring

Environmental Monitoring	Parameter	No. of non-project related Exceedance		No. of Exceedance related to the Construction Activities of this Contract	
		Action Level	Limit Level	Action Level	Limit Level
Cultural Heritage	Built Heritage Monitoring	0	0	0	0

(F) Exceedance Report for Ecological Monitoring

Environmental Monitoring	Parameter	No. of non-project related Exceedance		No. of Exceedance related to the Construction Activities of this Contract	
		Action Level	Limit Level	Action Level	Limit Level
Ecological	Avifauna	0	0	0	0
	Aquatic Fauna	0	2	0	0
	Non-Aquatic Fauna	0	0	0	0
	General Site Inspection (LVNP)	0	0	0	0

APPENDIX P
SITE AUDIT SUMMARY

Weekly Site Inspection Record Summary

Checklist Reference Number	250401
Date	1 April 2025 (Tuesday)
Time	09:30 – 10:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Noise	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Land Contamination	
	• No environmental deficiency was identified during site inspection.	
	G. Landfill Gas Hazard	
	• No environmental deficiency was identified during site inspection.	
	H. Cultural Heritage	
	• No environmental deficiency was identified during site inspection.	
	I. Landscape and Visual	
	• No environmental deficiency was identified during site inspection.	
	J. Ecology	
	• No environmental deficiency was identified during site inspection.	
	K. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	L. Others	
	• Follow-up on previous audit section (Ref. No.:250425), item no. 250325-R01 was observed improved/rectified by the Contractor during the site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		1 April 2025
Checked by	Dr. Priscilla Choy		1 April 2025

Weekly Site Inspection Record Summary

Checklist Reference Number	250408
Date	8 April 2025 (Tuesday)
Time	09:30 – 10:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Noise	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Land Contamination	
	• No environmental deficiency was identified during site inspection.	
	G. Landfill Gas Hazard	
	• No environmental deficiency was identified during site inspection.	
	H. Cultural Heritage	
	• No environmental deficiency was identified during site inspection.	
	I. Landscape and Visual	
	• No environmental deficiency was identified during site inspection.	
	J. Ecology	
	• No environmental deficiency was identified during site inspection.	
	K. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	L. Others	
	• Follow-up on previous audit section (Ref. No.:250401), no major environmental deficiency was identified during the site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		8 April 2025
Checked by	Dr. Priscilla Choy		8 April 2025

Weekly Site Inspection Record Summary

Checklist Reference Number	250414
Date	14 April 2025 (Monday)
Time	14:00 – 15:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Noise	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Land Contamination	
	• No environmental deficiency was identified during site inspection.	
	G. Landfill Gas Hazard	
	• No environmental deficiency was identified during site inspection.	
	H. Cultural Heritage	
	• No environmental deficiency was identified during site inspection.	
	I. Landscape and Visual	
	• No environmental deficiency was identified during site inspection.	
	J. Ecology	
	• No environmental deficiency was identified during site inspection.	
	K. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	L. Others	
	• Follow-up on previous audit section (Ref. No.:250408), no major environmental deficiency was identified during the site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		14 April 2025
Checked by	Dr. Priscilla Choy		14 April 2025

Weekly Site Inspection Record Summary

Checklist Reference Number	250422
Date	22 April 2025 (Tuesday)
Time	10:30 – 11:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Air Quality	
250422-R01	• Exposed worksites and haul road should be water-sprayed regularly as dust suppression.	B 1
	C. Noise	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Land Contamination	
	• No environmental deficiency was identified during site inspection.	
	G. Landfill Gas Hazard	
	• No environmental deficiency was identified during site inspection.	
	H. Cultural Heritage	
	• No environmental deficiency was identified during site inspection.	
	I. Landscape and Visual	
	• No environmental deficiency was identified during site inspection.	
	J. Ecology	
	• No environmental deficiency was identified during site inspection.	
	K. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	L. Others	
	• Follow-up on previous audit section (Ref. No.:250414), no major environmental deficiency was identified during the site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		22 April 2025
Checked by	Dr. Priscilla Choy		22 April 2025

Weekly Site Inspection Record Summary

Checklist Reference Number	250429
Date	29 April 2025 (Tuesday)
Time	10:30 – 11:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Noise	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Land Contamination	
	• No environmental deficiency was identified during site inspection.	
	G. Landfill Gas Hazard	
	• No environmental deficiency was identified during site inspection.	
	H. Cultural Heritage	
	• No environmental deficiency was identified during site inspection.	
	I. Landscape and Visual	
	• No environmental deficiency was identified during site inspection.	
	J. Ecology	
	• No environmental deficiency was identified during site inspection.	
	K. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	L. Others	
	• Follow-up on previous audit section (Ref. No.:250422), item no. 250422-R01 was observed improved/rectified by the Contractor during the site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		29 April 2025
Checked by	Dr. Priscilla Choy		29 April 2025

Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

ND/2019/02 – Kwu Tung North New Development Area, Phase 1: Roads and Drains between Kwu Tung North New Development and Shek Wu Hui

Weekly Site Inspection Record Summary

Checklist Reference Number	250402
Date	2 April 2025 (Wednesday)
Time	09:30 – 10:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Air Quality	
250402-R02	• Dusty stockpile at Dills Corner Garden should be covered entirely and properly to avoid dust generation.	B 2
	C. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Cultural Heritage	
	• No environmental deficiency was identified during site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during site inspection.	
	H. Ecology	
250402-R01	• Silt curtain near CH1046 should be maintained properly and regularly.	H 4
	I. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	L. Others	
	• Follow-up on previous audit section (Ref. No.:250326), item no. 250326-R01 was remarked as 250402-R01. Follow-up action is needed to be reviewed.	

	Name	Signature	Date
Recorded by	Marco Ma		2 April 2025
Checked by	Dr. Priscilla Choy		2 April 2025

Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

ND/2019/02 – Kwu Tung North New Development Area, Phase 1: Roads and Drains between Kwu Tung North New Development and Shek Wu Hui

Weekly Site Inspection Record Summary

Checklist Reference Number	250409
Date	9 April 2025 (Wednesday)
Time	10:00 – 11:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Air Quality	
	No environmental deficiency was identified during site inspection.	
	C. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Cultural Heritage	
	• No environmental deficiency was identified during site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during site inspection.	
	H. Ecology	
250409-R01	• Silt curtain near CH1046 should be maintained properly and regularly.	H 4
	I. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	L. Others	
	• Follow-up on previous audit section (Ref. No.:250402), item no. 250402-R01 was remarked as 250409-R01. Follow-up action is needed to be reviewed. • Item no. 250402-R02 was observed improved/rectified by the Contractor during the site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		9 April 2025
Checked by	Dr. Priscilla Choy		9 April 2025

Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

ND/2019/02 – Kwu Tung North New Development Area, Phase 1: Roads and Drains between Kwu Tung North New Development and Shek Wu Hui

Weekly Site Inspection Record Summary

Checklist Reference Number	250416
Date	16 April 2025 (Wednesday)
Time	09:30 – 10:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Air Quality	
	No environmental deficiency was identified during site inspection.	
	C. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Cultural Heritage	
	• No environmental deficiency was identified during site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during site inspection.	
	H. Ecology	
250416-R01	• Silt curtain near CH1046 should be maintained properly and regularly.	H 4
	I. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	L. Others	
	• Follow-up on previous audit section (Ref. No.:250409), item no. 250409-R01 was remarked as 250416-R01. Follow-up action is needed to be reviewed.	

	Name	Signature	Date
Recorded by	Marco Ma		16 April 2025
Checked by	Dr. Priscilla Choy		16 April 2025

Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

ND/2019/02 – Kwu Tung North New Development Area, Phase 1: Roads and Drains between Kwu Tung North New Development and Shek Wu Hui

Weekly Site Inspection Record Summary

Checklist Reference Number	250422
Date	22 April 2025 (Tuesday)
Time	09:00 – 10:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Air Quality	
	No environmental deficiency was identified during site inspection.	
	C. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
250422-R02	• General wastes should be disposed of properly and regularly.	E 2ii
	F. Cultural Heritage	
	• No environmental deficiency was identified during site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during site inspection.	
	H. Ecology	
250422-R01	• Silt curtain near CH1046 should be maintained properly and regularly.	H 4
	I. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	L. Others	
	• Follow-up on previous audit section (Ref. No.:250416), item no. 250416-R01 was remarked as 250422-R01. Follow-up action is needed to be reviewed.	

	Name	Signature	Date
Recorded by	Marco Ma		22 April 2025
Checked by	Dr. Priscilla Choy		22 April 2025

Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

ND/2019/02 – Kwu Tung North New Development Area, Phase 1: Roads and Drains between Kwu Tung North New Development and Shek Wu Hui

Weekly Site Inspection Record Summary

Checklist Reference Number	250429
Date	29 April 2025 (Tuesday)
Time	09:30 – 10:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Air Quality	
	No environmental deficiency was identified during site inspection.	
	C. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Cultural Heritage	
	• No environmental deficiency was identified during site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during site inspection.	
	H. Ecology	
250429-R01	• Silt curtain near CH1046 should be maintained properly and regularly.	H 4
	I. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	L. Others	
	• Follow-up on previous audit section (Ref. No.:250422), item no. 250422-R02 was observed improved/rectified by the Contractor during the site inspection. • Item no. 250422-R01 was remarked as 250429-R01. Follow-up action is needed to be reviewed.	

	Name	Signature	Date
Recorded by	Marco Ma		29 April 2025
Checked by	Dr. Priscilla Choy		29 April 2025

Weekly Site Inspection Record Summary

Checklist Reference Number	250403
Date	3 April 2025 (Thursday)
Time	14:00 – 15:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Air Quality	
250403-R01	• Dusty bags of cement at Portion K should be covered properly.	B 14
250403-R02	• Dusty stockpile at Bridge F should be covered properly.	B 2
	C. Noise	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Cultural Heritage	
	• No environmental deficiency was identified during site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during site inspection.	
	H. Ecology	
	• No environmental deficiency was identified during site inspection.	
	I. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	J. Others	
	• Follow-up on previous audit section (Ref. No.: 250327), item no. 250327-R01 was remarked as 250403-R01. Follow-up action is needed to be reviewed.	

	Name	Signature	Date
Recorded by	Marco Ma		3 April 2025
Checked by	Dr. Priscilla Choy		3 April 2025

Weekly Site Inspection Record Summary

Checklist Reference Number	250409
Date	9 April 2025 (Wednesday)
Time	14:00 – 15:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Air Quality	
250409-R01	• Dusty bags of cement at Portion K should be covered properly.	B 14
250409-R02	• Dusty stockpile at Bridge F should be covered properly.	B 2
	C. Noise	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Cultural Heritage	
	• No environmental deficiency was identified during site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during site inspection.	
	H. Ecology	
250409-R03	• Silt curtain under Bridge F should be maintained properly.	H 5
	I. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	J. Others	
	• Follow-up on previous audit section (Ref. No.: 250403), item no. 250403-R01 and 250403-R02 were remarked as 250409-R01 and 250409-R02 respectively. Follow-up action is needed to be reviewed.	

	Name	Signature	Date
Recorded by	Marco Ma		9 April 2025
Checked by	Dr. Priscilla Choy		9 April 2025

Weekly Site Inspection Record Summary

Checklist Reference Number	250414
Date	14 April 2025 (Monday)
Time	09:30 – 10:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Air Quality	
250414-R01	• Dusty stockpile at Bridge F should be covered properly.	B 2
250414-R03	• Exposed worksites at Portion K should be watered regularly.	B 1
250414-R04	• NRMM label should be displayed on regulated machine properly.	B 25
	C. Noise	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Cultural Heritage	
	• No environmental deficiency was identified during site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during site inspection.	
	H. Ecology	
250414-R02	• Silt curtain under Bridge F should be maintained properly.	H 5
	I. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	J. Others	
	• Follow-up on previous audit section (Ref. No.: 250409), item no. 250409-R01 was observed improved/rectified by the Contractor during the site inspection. • Item 250409-R02 and 250409-R03 were remarked as 250414-R01 and 250414-R02 respectively. Follow-up action is needed to be reviewed.	

	Name	Signature	Date
Recorded by	Marco Ma		14 April 2025
Checked by	Dr. Priscilla Choy		14 April 2025

Weekly Site Inspection Record Summary

Checklist Reference Number	250424
Date	24 April 2025 (Thursday)
Time	10:00 – 11:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Noise	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Cultural Heritage	
	• No environmental deficiency was identified during site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during site inspection.	
	H. Ecology	
250424-R01	• Silt curtain under Bridge F should be maintained properly.	H 5
	I. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	J. Others	
	• Follow-up on previous audit section (Ref. No.: 250414), item no. 250414-R01, 250414-R03 and 250414-R04 were observed improved/rectified by the Contractor during the site inspection. • Item 250414-R02 was remarked as 250424-R01. Follow-up action is needed to be reviewed.	

	Name	Signature	Date
Recorded by	Marco Ma		24 April 2025
Checked by	Dr. Priscilla Choy		24 April 2025

Weekly Site Inspection Record Summary

Checklist Reference Number	250429
Date	29 April 2025 (Tuesday)
Time	14:30 – 15:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Air Quality	
250429-R01	• Exposed haul road near Bridge F should be water-sprayed regularly as dust suppression.	B 1
	C. Noise	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Cultural Heritage	
	• No environmental deficiency was identified during site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during site inspection.	
	H. Ecology	
	• No environmental deficiency was identified during site inspection.	
	I. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	J. Others	
	• Follow-up on previous audit section (Ref. No.: 250424), item no. 250424-R01 was observed improved/rectified by the Contractor during the site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		29 April 2025
Checked by	Dr. Priscilla Choy		29 April 2025

Weekly Site Inspection Record Summary

Checklist Reference Number	250407
Date	7 April 2025 (Monday)
Time	14:00 – 15:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Noise	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Cultural Heritage	
	• No environmental deficiency was identified during site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during site inspection.	
	H. Ecology	
	• No environmental deficiency was identified during site inspection.	
	I. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	J. Others	
	Follow-up on previous audit section (Ref. No.: 250331), item no. 250331-R01 was observed improved/rectified by the Contractor during the site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		7 April 2025
Checked by	Dr. Priscilla Choy		7 April 2025

Weekly Site Inspection Record Summary

Checklist Reference Number	250417
Date	17 April 2025 (Thursday)
Time	09:30 – 10:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Air Quality	
250417-R02	• NRMM label on the excavator should be displayed.	B 24
	C. Noise	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
250417-R03	• Sand bag bunding around the gully should be maintained properly.	D 3
	E. Waste / Chemical Management	
250417-R01	• Drip tray for chemical/fuel containers should be provided.	E 14
	F. Cultural Heritage	
	• No environmental deficiency was identified during site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during site inspection.	
	H. Ecology	
	• No environmental deficiency was identified during site inspection.	
	I. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	J. Others	
	Follow-up on previous audit section (Ref. No.: 250407), no major environmental deficiency was identified during the site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		17 April 2025
Checked by	Dr. Priscilla Choy		17 April 2025

Weekly Site Inspection Record Summary

Checklist Reference Number	250423
Date	23 April 2025 (Wednesday)
Time	14:00 – 15:00

Ref. No.	**Non-Compliance**	**Related Item No.**
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Noise	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Cultural Heritage	
	• No environmental deficiency was identified during site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during site inspection.	
	H. Ecology	
	• No environmental deficiency was identified during site inspection.	
	I. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	J. Others	
	Follow-up on previous audit section (Ref. No.: 250417), item no. 250417-R01, 250417-R02 and 250417-R03 were observed improved/rectified during the site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		23 April 2025
Checked by	Dr. Priscilla Choy		23 April 2025

Weekly Site Inspection Record Summary

Checklist Reference Number	250428
Date	28 April 2025 (Monday)
Time	10:00 – 11:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Noise	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
250428-O01	• Muddy water discharge was observed due to wastewater treatment plant malfunctioning. Contractor was reminded to maintain the facilities regularly.	D 6
250428-R01	• Exposed surface with open stockpile should be covered properly during rainstorm.	D 8
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Cultural Heritage	
	• No environmental deficiency was identified during site inspection.	
	G. Landscape and Visual	
	• No environmental deficiency was identified during site inspection.	
	H. Ecology	
	• No environmental deficiency was identified during site inspection.	
	I. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	J. Others	
	Follow-up on previous audit section (Ref. No.: 250423), no major environmental deficiency was identified during the site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		28 April 2025
Checked by	Dr. Priscilla Choy		28 April 2025

Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

ND/2019/07 – Fanling North New Development Area, Phase 1: Site Formation and Infrastructure Works

Weekly Site Inspection Record Summary

Checklist Reference Number	250407
Date	7 April 2025 (Monday)
Time	09:30 – 10:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Landscape and Visual	
	• No environmental deficiency was identified during site inspection.	
	G. Ecology	
	• No environmental deficiency was identified during site inspection.	
	H. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	I. Others	
	• Follow-up on previous audit section (Ref. No.: 250331), no major environmental deficiency was identified during the site inspection. • The wheel-washing facility at the site exit was no longer providing services by the Contractor of ND/2019/07 since the main haul road was handed over to Remaining Phase Contractor on 28 February 2025.	

	Name	Signature	Date
Recorded by	Marco Ma		7 April 2025
Checked by	Dr. Priscilla Choy		7 April 2025

Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

ND/2019/07 – Fanling North New Development Area, Phase 1: Site Formation and Infrastructure Works

Weekly Site Inspection Record Summary

Checklist Reference Number	250417
Date	17 April 2025 (Thursday)
Time	14:00 – 15:00

Ref. No.	**Non-Compliance**	**Related Item No.**
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Landscape and Visual	
	• No environmental deficiency was identified during site inspection.	
	G. Ecology	
	• No environmental deficiency was identified during site inspection.	
	H. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	I. Others	
	• Follow-up on previous audit section (Ref. No.: 250407), no major environmental deficiency was identified during the site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		17 April 2025
Checked by	Dr. Priscilla Choy		17 April 2025

Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

ND/2019/07 – Fanling North New Development Area, Phase 1: Site Formation and Infrastructure Works

Weekly Site Inspection Record Summary

Checklist Reference Number	250423
Date	23 April 2025 (Wednesday)
Time	09:30 – 10:30

Ref. No.	**Non-Compliance**	**Related Item No.**
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Landscape and Visual	
	• No environmental deficiency was identified during site inspection.	
	G. Ecology	
	• No environmental deficiency was identified during site inspection.	
	H. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	I. Others	
	• Follow-up on previous audit section (Ref. No.: 250417), no major environmental deficiency was identified during the site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		23 April 2025
Checked by	Dr. Priscilla Choy		23 April 2025

Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

ND/2019/07 – Fanling North New Development Area, Phase 1: Site Formation and Infrastructure Works

Weekly Site Inspection Record Summary

Checklist Reference Number	250429
Date	29 April 2025 (Tusday)
Time	14:00 – 14:30

Ref. No.	**Non-Compliance**	**Related Item No.**
-	None identified	-
Ref. No.	**Remarks/Observations**	**Related Item No.**
	B. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Landscape and Visual	
	• No environmental deficiency was identified during site inspection.	
	G. Ecology	
	• No environmental deficiency was identified during site inspection.	
	H. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	I. Others	
	• Follow-up on previous audit section (Ref. No.: 250423), no major environmental deficiency was identified during the site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		29 April 2025
Checked by	Dr. Priscilla Choy		29 April 2025

APPENDIX Q
ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
Construction Dust Impact							
S3.8	D1	Mitigation measures in form of regular watering under a good site practice should be adopted. Watering once per hour on exposed worksites and haul road is proposed to achieve dust removal efficiency of 92.1%. While the above watering frequencies are to be followed, the extent of watering may vary depending on actual site conditions but should be sufficient to maintain an equivalent intensity of no less than 1.7 L/m2 to achieve the respective dust removal efficiencies	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	Construction phase	*
S3.8	D2	The Contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation.	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	Construction phase	^
S3.8	D3	Following dust suppression measures should also be incorporated by the Contractor to control the dust nuisance throughout the construction Phase • Any excavated or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading; • Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads; • A stockpile of dusty material should not be extend beyond the pedestrian barriers, fencing or traffic cones; • The load of dusty materials on a vehicle leaving a construction site should be covered entirely by impervious sheeting to ensure that the dusty materials do not leak from the vehicle; • Where practicable, vehicle washing facilities with high pressure water jet should be provided at every discernible or designated vehicle exit point. The area where vehicle washing takes place and the road section between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores; • When there are open excavation and reinstatement works,	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	Construction phase	* ^ ^ ^ ^ ^

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		hoarding of not less than 2.4m high should be provided as far as practicable along the site boundary with provision for public crossing. Good site practice shall also be adopted by the Contractor to ensure the conditions of the hoardings are properly maintained throughout the construction period.					^
		• The portion of any road leading only to construction site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials;					^
		• Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed with water or a dust suppression chemical continuously;					^
		• Any area that involves demolition activities should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities so as to maintain the entire surface wet;					^
		• Where a scaffolding is erected around the perimeter of a building under construction, effective dust screens, sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building, or a canopy should be provided from the first floor level up to the highest level of the scaffolding;					^
		• Any skip hoist for material transport should be totally enclosed by impervious sheeting;					N/A
		• Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides;					N/A
		• Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed;					^
		• Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system; and					

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		• Exposed earth should be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shortcrete or other suitable surface stabiliser within six months after the last construction activity on the construction site or part of the construction site where the exposed earth lies.					^
SURFACE S3.8	D4	Implement regular dust monitoring under EM&A programme during the construction stage.	Monitoring of dust impact	Contractor	Selected representative dust monitoring station	Construction phase	^
Noise Impact (Construction Phase)							
S4.9	N1	Implement the following good site management practices: • Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction programme; • Machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum; • Plant known to emit noise strongly in one direction, where	Control construction airborne noise	Contractor	All construction sites	Construction phase	^ ^ ^

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		possible, be orientated so that the noise is directed away from nearby NSRs; silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works; • Mobile plant should be sited as far away from NSRs as possible and practicable; • Material stockpiles, mobile container site office and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities.					^ ^
S4.9	N2	Install temporary site hoarding (approx 2.4m high) located on the site boundaries between noisy construction activities and NSRs. The conditions of the hoardings shall be properly maintained throughout the construction period.	Reduce the construction noise levels at low-level zone of NSRs through partial screening.	Contractor	All construction sites where practicable	Construction phase	^
S4.9	N3	Install movable noise barriers and full enclosure and acoustic mat, screen the noisy plants including air compressor and generator.	Screen the noisy plant items to be used at all construction sites	Contractor	All construction sites where practicable	Construction phase	^
S4.9	N4	Use of “Quiet” Plant and Working Methods	Reduce the noise levels of plant items	Contractor	All construction sites where practicable	Construction phase	^
S4.9	N5	Sequencing operation of construction plants where practicable.	Operate sequentially within the same work site to reduce the construction airborne noise	Contractor	All construction sites where practicable	Construction phase	^
S4.9	N6	Implement a noise monitoring under EM&A programme.	Monitor the construction noise levels at the selected	Contractor	Selected representative	Construction phase	^

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
			representative locations		noise monitoring stations		
Water Quality Impact (Construction Phase)							
S5.7	W1	<u>Construction Runoff and Site Drainage</u> In accordance with the Practice Note for Professional Persons on Construction Site Drainage, Environmental Protection Department, 1994 (ProPECC PN 1/94), construction phase mitigation measures should be provided and the Storm Water Pollution Control Plan is given below. where appropriate, should include the following: **Stormwater Pollution Control Plan** • At the start of site establishment, perimeter cut-off drains to direct off-site water around the site should be constructed with internal drainage works and erosion and sedimentation control facilities implemented. Channels (both temporary and permanent drainage pipes and culverts), earth bunds or sand bag barriers should be provided on site to direct stormwater to silt removal facilities. The design of the temporary on-site drainage system will be undertaken by the Contractor prior to the commencement of construction. • Diversion of natural stormwater should be provided as far as possible. The design of temporary on-site drainage should prevent runoff going through site surface, construction machinery and equipments in order to avoid or minimize polluted runoff. Sedimentation tanks with sufficient capacity, constructed from pre-formed individual cells of approximately 6 to 8m^3 capacities, are recommended as a general mitigation measure which can be used for settling surface runoff prior to disposal. The system capacity shall be flexible and able to handle multiple	Control construction runoff	Contractor	All construction sites	Construction phase	^ # ^

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		inputs from a variety of sources and suited to applications where the influent is pumped. • The dikes or embankments for flood protection should be implemented around the boundaries of earthwork areas. Temporary ditches should be provided to facilitate the runoff discharge into an appropriate watercourse, through a silt/sediment trap. The silt/sediment traps should be incorporated in the permanent drainage channels to enhance deposition rates. • The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94. The detailed design of the sand/silt traps should be undertaken by the contractor prior to the commencement of construction. • Construction works should be programmed to minimize surface excavation works during the rainy seasons (April to September). All exposed earth areas should be completed and vegetated as soon as possible after earthworks have been completed. If excavation of soil cannot be avoided during the rainy season, or at any time of year when rainstorms are likely, exposed slope surfaces should be covered by tarpaulin or other means. • All drainage facilities and erosion and sediment control structures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rainstorms. Deposited silt and grit should be removed regularly and disposed of by spreading evenly over stable, vegetated areas. • Measures should be taken to minimise the ingress of site drainage into excavations. If the excavation of trenches in wet periods is necessary, it should be dug and backfilled in short sections wherever practicable. Water pumped out from trenches or					^ ^ ^ # ^

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		foundation excavations should be discharged into storm drains via silt removal facilities. • All open stockpiles of construction materials (for example, aggregates, sand and fill material) of more than 50m^3 should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system. • Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and storm runoff being directed into foul sewers. • Precautions to be taken at any time of year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forecasted, and actions to be taken during or after rainstorms are summarized in Appendix A2 of ProPECC PN 1/94. Particular attention should be paid to the control of silty surface runoff during storm events. • All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and sited wheel washing facilities should be provided at every construction site exit where practicable. Wash-water should have sand and silt settled out and removed at least on a weekly basis to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheel-wash bay to the public road should be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to					^ ^ ^ #

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		public roads and drains. • Oil interceptors should be provided in the drainage system downstream of any oil/fuel pollution sources. The oil interceptors should be emptied and cleaned regularly to prevent the release of oil and grease into the storm water drainage system after accidental spillage. A bypass should be provided for the oil interceptors to prevent flushing during heavy rain. • Construction solid waste, debris and rubbish on site should be collected, handled and disposed of properly to avoid water quality impacts. • All fuel tanks and storage areas should be provided with locks and sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank to prevent spilled fuel oils from reaching water sensitive receivers nearby. • Regular environmental audit on the construction site should be carried out in order to prevent any malpractices. Notices should be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the meander, wetlands and fish ponds.					N/A ^ ^ ^
S5.7	W2	*Stream Diversion* • In order to prevent sediment transport during riverbank works, deployment of silt curtain should be implemented, especially when construction works encroach or occur in close distance to water body. It is recommended to carry out all the riverbank works and diversion works within a cofferdam or diaphragm wall and the work areas on riverbed should be kept in dry condition.	Minimize water quality impact due to stream diversion	Contractor	All streams that required diversion	Construction phase	^

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S5.7	W3	*Groundwater from Contaminated Area* • For other inaccessible sites, site investigation is required when they are resumed and handed over to the Project Proponent to identify if contaminated groundwater is found. • If the investigation results indicated that the groundwater to be generated from construction works would be contaminated, the contaminated groundwater should be either discharged into recharged wells, or properly treated in compliance with the requirements of Technical Memorandum on Standards for Effluents Discharged into Drainage on Sewerage Systems, Inland and Coastal Waters. • If recharged well method were used, the groundwater quality in the recharged well should not be affected by recharging operation, i.e. the pollution levels of the recharged groundwater should not be higher than that in the recharging wells. • If treatment and discharge method were used, the design of wastewater treatment facilities, such as active carbon and petrol interceptor, should be submitted to the EPD and a discharge license should be obtained under the WPCO through the Regional Offices of EPD.	Minimize water quality impact due to potential groundwater from contaminated area	Contractor	All identified groundwater-contaminated areas	Construction phase	N/A N/A N/A N/A
S5.7	W4	*Sewage from Workforce* Portable chemical toilets and sewage holding tanks should be provided for	Handling of site sewage	Contractor	All construction sites	Construction Phase	^

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		handling the construction sewage generated by the workforce. A licensed Contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance. Notices should be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the nearby environment during the construction phase of the Project. Regular environmental audit on the construction site should be conducted in order to provide an effective control of any malpractices and achieve continual improvement of environmental performance on site. It is anticipated that sewage generation during the construction phase of the Project would not cause water quality impact after undertaking all required measures.					
Waste Management (Construction Waste)							
S7.6	WM1	*Waste Reduction Measures* Waste reduction is best achieved at the planning and design phase, as well as by ensuring the implementation of good site practices. The following recommendations are proposed to achieve reduction: • segregate and store different types of waste in different containers, skip or stockpiles to enhance reuse or recycling of materials and their proper disposal; • proper storage and site practices to minimize the potential for	Reduce waste generation	Contractor	All construction sites where practicable	Prior to the commencement of construction	^ ^

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		damage and contamination of construction materials; • plan and stock construction materials carefully to minimize amount of waste generated and avoid unnecessary generation of waste; • sort out demolition debris and excavated materials from demolition works to recover reusable/recyclable portions (i.e. soil, broken concrete, metal etc); • provide training to workers on the importance of appropriate waste management procedures, including waste reduction, reuse and recycling.					^ N/A ^
S7.6	WM2	Prepare Waste Management Plan and submit to the Engineer for approval	Minimize waste generation during construction	Contractor	All construction sites	Construction phase	^
S7.6	WM3	*Good Site Practice* The following good site practices are recommended throughout the construction activities: • Nomination of an approved personnel, such as a site manager, to be responsible for the implementation of good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site; • Training of site personnel in site cleanliness, appropriate waste management procedures and concepts of waste reduction, reuse and recycling;	Minimize waste generation during construction	Contractor	All construction sites	Construction phase	^ ^

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		• Provision of sufficient waste disposal points and regular collection for disposal; • Appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers; • Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors;					^ ^ *
S7.6	WM4	*Storage of Waste* The following recommendation should be implemented to minimize the impacts: • Waste such as soil should be handled and stored well to ensure secure containment; • Stockpiling area should be provided with covers and water spraying system to prevent materials from wind-blown or being washed away; • Different locations should be designated to stockpile each material to enhance reuse;	Minimize waste impacts from storage	Contractor	All construction sites	Construction phase	^ ^ ^
S7.6	WM5	*Collection and Transportation of Waste* The following recommendation should be implemented to minimize the	Minimize waste impact	Contractor	All construction	Construction	

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		impacts: • Remove waste in timely manner; • Employ the trucks with cover or enclosed containers for waste transportation; • Obtain relevant waste disposal permits from the appropriate authorities; and • Disposal of waste should be done at licensed waste disposal facilities.	from storage		sites	phase	^ ^ ^ ^
S7.6	WM6	*Excavated and C&D Material* Wherever practicable, C&D materials should be segregated from other wastes to avoid contamination and ensure acceptability at Public Fill Reception Facilities areas or reclamation sites. The following mitigation measures should be implemented in handling the excavated and C&D materials: • Maintain temporary stockpiles and reuse excavated fill material for backfilling; • Carry out on-site sorting; • Deliver surplus artificial hard materials to Tuen Mun Area 38 recycling plant or its successor for recycling into subsequent useful products; • Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate; and • Implement a recording system for the amount of waste generated,	Minimize waste impacts from excavated and C&D material	Contractor	All construction sites	Construction phase	^ ^ N/A N/A N/A ^

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		recycled and disposed of for checking; Standard formwork should be used as far as practicable in order to minimize the arising of C&D waste. The use of more durable formwork (e.g. metal hoarding) or plastic facing should be encouraged in order to enhance the possibility of recycling. The purchasing of construction materials should be carefully planned in order to avoid over ordering and wastage. Wheel wash facilities have to be provided at the site entrance before the trucks leaving the works area.					N/A ^
S7.6	WM7	*Contaminated Soil* As a precaution, it is recommended that standard good site practice should be implemented during the construction phase to minimize any potential exposure to contaminated soils or groundwater. The details of river measures to minimize the potential environmental implications arising from the handling of contaminated materials refer to Land Contamination Section.	Remediate contaminated soil	Contractor	All construction sites where applicable	Construction phase	^
S7.6	WM8	*Chemical Waste* If chemical wastes are produced at the construction site, the Contractors should register with EPD as chemical waste producers. Chemical wastes should be stored in appropriate containers and collected by a licensed	Control the chemical waste and ensure proper storage, handling and disposal	Contractor	All construction sites	Construction phase	^

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		chemical waste Contractor. Chemical wastes (e.g. spent lubricant oil) should be recycled at an appropriate facility as far as possible, while the chemical waste that cannot be recycled should be disposed of at either the Chemical Waste Treatment Centre, or another licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.					
S7.6	WM9	*General Waste* • General refuse should be stored in enclosed bins separately from construction and chemical wastes. Recycling bins should also be placed to encourage recycling. • Preferably enclosed and covered areas should be provided for general refuse collection and routine cleaning for these areas should also be implemented to keep areas clean. • A reputable waste collector should be employed to remove general refuse on a daily basis.	Minimize production of the general refuse and avoid odour, pest and litter impacts	Contractor	All construction sites	Construction phase	^ ^ ^
S7.6	WM10	*Sewage* • The WMP should document the locations and number of portable chemical toilets depending on the number of workers, land availability, site condition and activities. • Regularly collection by licensed collectors should be arranged to minimize potential environmental impacts.	Minimize production of sewage impacts	Contractor	All construction sites	Construction phase	N/A N/A

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S7.6	WM11	Topsoil reuse – Topsoil, where identified, should be stripped and stored for re-use in the construction of the soft landscape works, where practical. This is considered a general measure for good site practice.	Good site practice	Contractor/ Project Proponent	Onsite	Construction phase	N/A
Land Contamination							
S 8.4	LC2	Detailed site investigation (SI) for all inaccessible potentially contaminated sites in 2 NDAs	Verify the land contamination potential before the commencement of construction	Project Proponent Detailed Design Consultant Contractor	All inaccessible potentially contaminated sites in 2 NDAs as listed in the CAP	After the land is resumed and handed over to the Project Proponent	N/A
S 8.5	LC3	Preparation and submission of supplementary Contamination Assessment Report (CAR) and Remediation Action Plan (RAP) for all inaccessible potentially contaminated sites in 2 NDAs to EPD for agreement if land contamination is confirmed	Present the findings of SI and evaluate the potential environmental and human health impacts Recommend appropriate mitigation measures for the contaminated soil and groundwater identified in the assessment if	Project Proponent/ Detailed Design Consultant	All inaccessible potentially contaminated sites in 2 NDAs as listed in the CAP	Prior to the commencement of any proposed construction works if land contamination is confirmed and remediation is required	N/A

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			remediation is required				
S 8.5	LC4	Preparation and submission of Remediation Report to EPD for agreement	Demonstrate that the decontamination work is adequate and is carried out in accordance with the endorsed supplementary CAR and RAP	Project Proponent/ Detailed Design Consultant	All inaccessible potentially contaminated sites in 2 NDAs as listed in the CAP	Prior to the commencement of any proposed construction works if land contamination is confirmed and remediation is required	N/A
S 8.6	LC5	Re-appraisal of surveyed sites (if they become part of the land requirement for NDA development) that were not identified as potentially contaminated or could not be accessed for visual inspection during the site survey	Verify the land contamination potential due to potential change of land uses before the commencement of construction	Project Proponent/ Detailed Design Consultant	All surveyed sites (if they become part of the land requirement for NDA development (that were not identified as potentially	After the land is resumed and handed over to the Project Proponent.	N/A

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					contaminated or could not be accessed for visual inspection during the site survey as listed in the CAP		
S 8.7.2 and Appendix 8.4	LC6	Treatment of arsenic-containing soil "Solidification/Stabilization" (S/S) treatment method was proposed for the treatment of arsenic-containing soil. Toxicity Characteristic Leaching Procedure (TCLP) test should be undertaken after S/S in order to ensure that the contaminant will not leach to the environment. Unconfined Compressive Strength (UCS) test should be conducted, and not less than 1MPa should be met prior to the backfilling or stockpiled for future reuse within the study area.	To treat the arsenic containing soil	Government Developer/ Contractor	KTN NDA	Prior to commencement of construction works within KTN NDA	N/A
S 8.7.2 and Appendix 8.4	LC7	Excavation and Transportation • Excavation profiles must be properly designed and executed with attention to the relevant requirements for environment, health and safety; • In case the soil to be excavated is situated beneath the groundwater table, it may be necessary to lower the groundwater table; • Excavation should be carried out during dry season as far as	To minimize the potential environmental impacts arising from the handling of contaminated materials	Contractor	KTN NDA	Prior to commencement of construction works within KTN NDA	N/A

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		possible to minimize runoff from excavated soils; • Stockpiling site(s) should be lined with impermeable sheeting and bunded. Stockpiles should be properly covered by impermeable sheeting to reduce dust emission during dry season or contaminated run-off during rainy season. Watering should be avoided on stockpiles of soil to minimize runoff; • Supply of suitable backfill material after excavation, if require; Vehicles containing any excavated materials should be suitably covered to limit potential dust emissions or run-off, and truck bodies and tailgates should be sealed to prevent any discharge during transport or during wet season; • Speed control for the trucks carrying excavated materials should be enforced; and Vehicle wheel washing facilities at the site's exit points should be established and used.					^
S 8.7.2 and Appendix 8.4	LC8	Solidification/Stabilization • The loading, unloading, handling, transfer or storage of cement should be carried out in an enclosed system; • Mixing process and other associated material handling activities should be properly scheduled to minimize potential noise impact and dust emission; • The mixing facilities should be sited as far apart as	To minimize the potential environmental impacts arising from the handling of contaminated materials	Contractor	KTN NDA	The course of treatment	N/A ^ ^

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		practicable from the nearby noise sensitive receivers; • Mixing of soil and cement / water / other additive(s) should be undertaken at a solidification plant to minimize the potential for leaching; • Runoff from the solidification / stabilization area should be prevented by constructing a concrete bund along the perimeter of the solidification / stabilization area; • If stockpile of treated soil is required, the stockpiling site(s) should be lined with impermeable sheeting and bunded. Stockpiles should be properly covered by impermeable sheeting to reduce dust emission during dry season or site run-off during rainy season; and If necessary, there should be clear and separated areas for stockpiling of untreated and treated materials.					^ ^ *
S 8.7.2 and Appendix 8.4	LC9	<u>Safety Measures</u> • Set up a list of safety measures for site workers; • Provide written information and training on safety for site workers; • Keep a log-book and plan showing the zones requiring treatment and clean zones; • Maintain a hygienic working environment; • Avoid dust generation; • Provide face and respiratory protection gear to site workers if	To minimize the potential adverse effects on health and safety of construction workers	Contractor	KTN NDA	The course of treatment	N/A

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		necessary; • Provide personal protective clothing (e.g. chemical resistant • jackboot, liquid tight gloves) to site workers if necessary; • Provide first aid training and materials to site worker; • Bulk earth moving equipment should be utilized as much as possible to minimize worker Eating, drinking and smoking should not be allowed in the excavation areas and treatment area to avoid inadvertent ingestion of arsenic containing soil.					
Landfill Gas Hazard							
S10.6	LFG1	• Underground rooms or void should be avoided as far as practicable in the proposed developments within the Consultation Zone and should be avoided totally in the proposed developments within the MTLL. • Buildings or structures within the MTLL should be at ground level with raised floor slabs which are less prone to gas ingress. • For the high risk category, the use of active control of gas, including barriers and detection systems are recommended. These measures include the control of gas by mechanical means e.g. ventilation of spaces with air to dilute gas, or extraction of gas using fans or blowers. • For the low risk category, the provision of barriers to the movement of gas is recommended. Measures recommended	To minimize the risk of LFG hazards to occupants within MTLL and its 250m Consultation Zone	Government / Developer/ Detailed Design Consultant within MTLL and its 250m Consultation Zone	Buildings within MTLL and its 250m Consultation Zone	Detailed design phase	N/A

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		include the use of membranes in floors or walls, or in trenches, coupled with high permeability vents such as nofines gravel in trenches or voids/permeable layers below structures. • The need and practicality of incorporating such measures should be reviewed in the detailed Qualitative LFG Hazards Assessment (QLFGHA) during the detailed design stage for developments within the 250m Consultation Zone and within MTLL. Recommendations on the detailed precautionary and protection measures to be adopted should be given in the QLFGHA. • The design and construction method of the proposed development within MTLL (i.e. the proposed recreational area in site E1-1) should be provided to EPD for agreement in the design stage to ensure compatibility with the landfill restoration facilities and aftercare works within MTLL, such that these facilities and works will not be affected by the construction or operation of the proposed development.					
S10.6	LFG2	• During all works, safety procedures should be implemented to minimize the risks of fires and explosions, asphyxiation of workers (especially in confined space) and toxicity effects resulting from contact with contaminated soils and groundwater. • Safety officers, specifically trained with regard to LFG and leachate related hazards and the appropriate actions to take in	To minimize the risk of LFG hazards to the staff and visitors within MTLL and its 250m Consultation Zone	Contractor	Construction sites within MTLL and its 250m Consultation Zone	Construction phase	^ ^

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		adverse circumstances, should be present on all worksites throughout the works.					
		• All personnel who work on site and all visitors to the site should be made aware of the possibility of ignition of gas in the vicinity of the works, the possible presence of contaminated water and the need to avoid physical contact with it.					^
		• Those staff who work in, or have responsibility for “at risk” areas, including bore pilling and excavation works, should receive appropriate training on working in areas susceptible to LFG.					^
		• Enhanced personal hygiene practices including washing thoroughly after working and eating only in “clean” areas should be adopted where contact may have been made with any groundwater which is thought to be contaminated with leachate.					^
		• Any offices / quarters set up on site should take precautions against LFG ingress, such as being raised off the ground. Other storage premizes, e.g. shipping containers, where this is not possible should be well ventilated prior to entry.					^
		• Adequate precautions to prevent the accumulation of LFG under site buildings and within storage shed should be taken by raising buildings off the ground where appropriate and“airing” storage containers prior to entry by personnel and ensuring adequate ventilation at all times.					^

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		• Smoking and naked flames should be prohibited within confined spaces. “No Smoking” and “No Naked Flame” notices in Chinese and English should be posted prominently around the construction site. Safety notices should be posted warning of the potential hazards.					^
		• Welding, flame-cutting or other hot works may only be carried out in confined spaces when controlled by a “permit to work” procedure, properly authorized by the Safety Officer. The permit to work procedure should set down clearly the requirements for continuous monitoring of methane, carbon dioxide and oxygen throughout the period during which the hot works are in progress. The procedure should also require the presence of an appropriately qualified person who shall be responsible for reviewing the gas measurements as they are made, and who shall have executive responsibility for suspending the work in the event of unacceptable or hazardous conditions. Only those workers who are appropriately trained and fully aware of the potentially hazardous conditions which may arise should be permitted to carry out hot works in confined areas.					N/A
		• During the construction works, adequate fire extinguishers and breathing apparatus sets should be made available on site and appropriate training given in their use.					^

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		• Ongoing gas monitoring should be considered for offices, stores etc set up on site.					^
S10.6	LFG3	Utility Companies • The developers should make the utility companies aware of the location and features of the site within the Consultation Zone during the respective detailed design stage as part of the QLFGHA. • The utilities companies should have a responsibility to train and ensure their staff to take appropriate precautions at all times when entering enclosed spaces or plant rooms. • Should utility installation be required in site E1-1, the developers should make the utility companies aware of the potential constraints imposed by the landfill restoration facilities and aftercare works to ensure these facilities and works will remain unaffected. Appropriate precautionary measures against landfill gas should also be taken should utility installation be required within the MTLL. Building Management • The management committee of the building estate will hold a special responsibility to ensure that the occupants of the building, its staff and maintenance workers are protected from LFG and that visitors to the site are also made aware as to the dangers and the	To minimize the risk of LFG hazards to the occupants, maintenance personnel, visitors and other users within MTLL and its 250m Consultation Zone	Government / Developer within MTLL and its 250m Consultation Zone	Buildings within MTLL and its 250m Consultation Zone	Operation phase	N/A

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		precautions required to be taken. • Of primary importance to satisfactorily upholding this responsibility will be to ensure that strict procedures for maintaining control over all temporary and /or permanent works proposed at the site are reviewed with regard to the LFG hazard. This needs to be accompanied by a comprehensive contingency plan in case of incidents, including liaison with EPD officers, Fire Services Department, Landfill Restoration Contractors and others, as necessary. • All construction and maintenance (including utilities) personnel working at the site should be made aware of the hazards of LFG and its possible presence on site. This should be achieved through a combination of posting warning signs in prominent places and also by access to detailed information on LFG hazards and the designs and procedural means by which these hazards are being minimized on site. In addition, entry to confined spaces such as refuse/store rooms, drainage manholes etc. should be preceded by a period of “airing” the space by opening the door widely allowing fresh air to enter. Where appropriate, monitoring of gas should also precede entry. • Any proposed modifications or additions to the building structure should be subject to a further assessment of LFG hazard,					

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		particularly in areas where a gas membrane has been installed. Any penetrations of the membrane must be repaired as soon as possible after detection or works completion using similar products. • The building management company should also make arrangement with Landfill Restoration Contractor so that they are advised of all situations which may potentially threaten the safety of the building occupants resulting from any accidents or failures at the landfill site. The building management company should also have available suitable gas monitoring equipment for any ad hoc investigations necessary relating to LFG and be in a position to undertake any future routine monitoring of gas which may be considered necessary soloing completion of the defects correction period. • To ensure that all the above protection and precautionary measures and issues pertaining to LFG are properly and consistently addressed by future users and owners of the site, it is recommended that a comprehensive LFG hazard management system be developed by the owner of the building or its property management agency. The system should be developed by the developers of the sites as part of the QLFGHA before the occupation of the building and implemented during its operational					

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		phase.					
Cultural Heritage (Pre-construction Phase)							
S11.6.1	CH1	Undertaking Further Archaeological Survey to Cover the Outstanding Areas Further archaeological surveys to cover the outstanding areas of the not-yet-surveyed-area with medium archaeological potential located in the areas with proposed development as presented in Figure 11.9 should be implemented after land resumption to confirm and verify the findings of the EIA. The survey should be conducted by a professional archaeologist and prior to fieldwork commencement, the archaeologist should obtain a Licence to Excavate and Search for Antiquities from the Authority under the AM Ordinance. It should be noted that the scope of further archaeological survey is based on the current proposed alignment. Any additional works areas which have not been covered by the current archaeological impact assessment should be covered as soon as possible. Subject to the findings of the archaeological survey to be conducted after land resumption, additional mitigation measures would be designed and implemented before the commencement of construction works to mitigate the adverse impact.	To confirm and verify the findings of the EIA	Project Proponent/ Contractor/ Qualified Archaeologist	In the not-yet-surveyed-areas with medium archaeological potential located in the areas within Areas D1-11, A3-5, A3-6, B1-1, and B1-7,	After land resumption but before construction	N/A

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S11.6.1	CH2	Undertaking Survey-cum-Rescue Excavation A Survey-cum-Rescue Excavation should be conducted after land resumption and before the commencement of construction works to define the precise archaeological deposits extent and to preserve the archaeological resources by record. The excavation should be conducted by a professional archaeologist and prior to fieldwork commencement, the archaeologist should obtain a Licence to Excavate and Search for Antiquities from the Authority under the AM Ordinance.	To define the precise archaeological deposits extent and to preserve the archaeological resources as far as possible	Project Proponent/ Contractor/ Qualified Archaeologist	In KTN NDA, for Site 3 and In FLN NDA for Site 5.	After land resumption but before construction commencement of the zone	N/A
S11.6.1	CH3	Undertaking Preservation in-situ for Site 7 Preservation in-situ of the cultivation deposits in Site 7 is proposed. If disturbance to the site by the design of the Central Park is unavoidable, further archaeological survey should be conducted after land resumption prior to the pre-construction stage to assess the feasibility to incorporate Site 7 into the design of the development plan of the proposed zone. Appropriate followup actions, including preservation of the significant archaeological deposits in-situ in the Central Park, would then be considered with the consent of AMO. The recommended mitigation measure of preservation in-situ with further archaeological survey should be conducted by a professional archaeologist and prior to fieldwork commencement, the archaeologist should obtain a Licence to Excavate and Search for Antiquities from the	To preserve the archaeological resources as far as possible.	Project Proponent/ Contractor/ Qualified Archaeologist	Site 7 in FLN NDA	After land resumption prior to preconstruction stage of the proposed Central Park (Area C2-8, Zoning O)	N/A

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		Authority under the AM Ordinance.					
S11.6.1	CH4	Undertaking Induction Training Induction training should be provided to the construction Contractor before the commencement of the excavation works in Spots A, D, F to H. An induction will be conducted as part of the environmental health and safety induction programme to all site staff before they are deployed on site. The induction will include an introduction on the historical development of the Site, the possible archaeological remains that may be encountered during ground excavation works as well as the reporting procedures in case suspected archaeological remains are identified. A set of the presentation material (in the form of power point presentation) with content details will be prepared by an archaeologist and submitted to AMO for reference and record purpose. The first induction briefing will be video recorded and it will be used as induction briefing material for new site staff.	To preserve the archaeological resources as far as possible	Project Proponent/ Contractor/ Qualified Archaeologist	Spots A, D, F to H	Before the commencement of the excavation works and before site staff are deployed on site	N/A
S11.6.1	CH5	Undertaking Archaeological Impact Assessment before Construction at A1 It is recommended that an Archaeological Impact Assessment to be conducted in the impacted area in Area B1-8 and B1-9 at A1 (Sheung	To define the precise archaeological deposits extent and to preserve the archaeological resources as	Project Proponent/ Contractor/ Qualified	Area B1-8 and B1-9 zoned as R4 and R3 in A1	After land resumption but before construction	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		Shui Wa Shan Site of Archaeological Interest) after land resumption and before construction when detail construction work information is available to determine the need for further archaeological follow up actions.	far as possible	Archaeologist			
S11.6.1	CH6	Undertaking Archaeological Impact Assessment before Construction within A1 but except Area B1-8 and B1-9 Should there be any development work within the Sheung Shui Wa Shan Site of Archaeological Interest, it is recommended that an Archaeological Impact Assessment is required after land resumption and before construction when detail construction work information is available to determine the need for further archaeological follow up actions.	To define the precise archaeological deposits extent and to preserve the archaeological resources as far as possible.	Project Proponent/ Contractor/ Qualified Archaeologist	Area within A1 except Area B1-8 and B1-9 in R4 &R3 zoning	After land resumption but before construction	N/A
S11.6.2	CH7	Undertaking baseline condition survey and baseline vibration impact assessment In case any potential vibration impact on any nearby built heritage features are identified during the pre-construction stage of the Project, prior to commencement of construction works, a baseline condition survey and baseline vibration impact assessment should be conducted by a qualified building surveyor or a qualified structural engineer to define the vibration limit (a vibration limit at 7.5mm/s could be adopted for graded historic buildings) and to evaluate if construction vibration monitoring and structural strengthening measures are required during	To minimize the vibration impacts during preconstruction stage on any identified potential vibration impacted built heritage features	Project Proponent/ Contractor	G303 and G308	Preconstruction stage before commencement of construction works during Schedule 3 study	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		construction phase so as to ensure the construction performance meets with the vibration standard stated in the EIA report. The condition survey of graded historic building should be submitted to AMO for information.					
S11.6.2	CH8	Undertaking baseline condition survey and baseline vibration impact assessment In case any potential vibration impact on any nearby built heritage features are identified during the pre-construction stage of the Project, prior to commencement of construction works, a baseline condition survey and baseline vibration impact assessment should be conducted by a qualified building surveyor or a qualified structural engineer to define the vibration limit (a vibration limit at 7.5mm/s and 15mm/s could be adopted for graded historic buildings and historic buildings respectively) and to evaluate if construction vibration monitoring and structural strengthening measures are required during construction phase so as to ensure the construction performance meets with the vibration standard stated in the EIA report. The condition survey of graded historic building should be submitted to AMO for information.	To minimize the vibration impacts during preconstruction stage on any identified potential vibration impacted built heritage features	Project Proponent/ Contractor	KT57, FL05, FL18, and FL2	Preconstruction stage before commencement of construction works	N/A
S11.6.2	CH9	Conducting Photographic and Cartographic Records Prior to Removal/Relocation of Impacted Built Heritages Prior to removal/relocation of the directly impacted historical buildings and cultural/historical landscape features, photographic and cartographic	To preserve the directly impacted sites by record prior to their removal / relocation	Project Proponent/ Contractor	Ancillary structures of G303, HKT01, HKT02, Entrance	Prior to Removal / Relocation of features before commencement of construction	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		records should be conducted to preserve them by record. Liaison with and obtaining agreement from the descendants of these features will be carried out the Project Proponent.			Gate of HKT03, HKT04, KT01 to KT10, KT13, KT36, KT39, KT40, KT41, KT43, KT45, KT47, KT50, KT54, KT62 to KT63, KT69, FL01, FL16, and FL35	works during Schedule 3 study	
S11.6.2	CH10	Conducting Photographic and Cartographic Records Prior to Removal/Relocation of Impacted Built Heritages Prior to removal/relocation of the directly impacted historical buildings and cultural/historical landscape features, photographic and cartographic records should be conducted to preserve them by record. Liaison with and obtaining agreement from the descendants of these features will be carried out by the Project Proponent.	To preserve the directly impacted sites by record prior to their removal / relocation	Project Proponent/ Contractor	KT12 and KT61	Prior to Removal / Relocation of features before commencement of construction works	N/A
S11.6.2	CH11	Relocation of Built Heritages Relocation of built heritages to a reasonable location nearby may be required.	To preserve the directly impacted sites by relocation	Project Proponent/ Contractor	HKT01, HKT02, Entrance Gate of HKT03	After the photographic and cartographic records and before commencement of	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
						construction works	
S11.6.2	CH12	Drainage System and Access Route Design For the retained built heritage items in developable area, drainage system and access route would be designed to prevent the persevered flooding and maintain the accessibility to the built heritage.	To prevent the persevered flooding and maintain the accessibility to the built heritage	Contractor /Detailed Design consultant	The retained built heritage items	Pre-construction phase	N/A
Cultural Heritage (Construction Phase)							
S11.6.1	CH13	Inform Upon Archaeological Discovery Pursuant to the Antiquities and Monuments Ordinance, the construction Contractor should inform the AMO immediately in case of discovery of antiquities or supposed antiquities in the course of excavation works in construction phase.	Special attention should be given to areas evaluated to have archaeological potential or significance.	Contractor	All soil excavation works	Immediately upon discovery during excavation works	N/A
S11.6.2	CH14	Watertable Monitoring Since the construction works and development activities may induce change in the watertable. It is recommended the Contractor should ensure that the change of watertable induced by the construction works and development activities will not result in settlement of built heritage.	To minimize the potential impacts to the built heritage items by the change of watertable induced by the works during the Construction phase	Contractor	Within NDAs	Construction phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
S11.6.2	CH15	Conducting Construction Vibration Monitoring and Structural Strengthening Measures Construction vibration monitoring and structural strengthening measures should be conducted during Construction phase based on the assessment result of baseline condition survey and baseline vibration impact assessment, so as to ensure the construction performance meets with the vibration standard stated in the EIA report.	To minimize the potential impacts during Construction phase on any identified potential vibration impacted built heritage features	Contractor	Identified potential vibration impacted built heritage features	Construction phase, with details specified in baseline condition survey and baseline vibration impact assessment	^
Landscape and Visual Impact (Detailed Design, Prior to Construction, Construction and Operation Phases)							
S.12.9	LV1	General Good Practice Measures - For areas unavoidably disturbed by the Project on a short term basis e.g. works areas, the general principle to try and restore these to their former state to suit future land use, should be adhered to. With regard to topsoil, where identified, it should be stripped, treated appropriately, and where suitable and practical stored for re-use in the construction of the soft landscape works such as roadside amenity strips, and open space sites.		Detailed design consultant/ Contractor	Throughout NDAs,	Prior to Construction, Construction & for all planting, this should be installed as the areas become available, to achieve early establishment	N/A

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S.12.9 MM1	LV2	Minimum Topographical Change –To minimize landscape and visual impacts, the footprint and elevation of such elements should be optimized to reduce topographical/ landform changes, as well as reduce land take and interference with natural terrain. Where there is a need to significantly cut into the existing landform, retaining walls should be considered as well as cut slopes, to minimize landform changes and land resumption, while also considering visual amenity. Earthworks and engineered slopes should be designed to be a visually interesting landform, compatible with the surrounding landscape and to mimic the natural contouring and terrain e.g. introduction and continuation of natural features such as spurs and ridges where appropriate, to support assimilation with the hillside setting.	Reduce topographical changes and minimize land resumption	Government / Detailed Design Consultant/ Contractor	Throughout NDAs, particularly for reservoirs	Prior to Construction	N/A
S.12.9 MM2	LV3	Detailed Design (Visual) –The footprint and massing of development components and the works area should also be kept to a practical minimum and the detailed design of development components for Construction phase should follow the Sustainable Building Design Guidelines. The form, textures, finishes and colours of the proposed development components should aim to be compatible with the existing surroundings. To improve visual amenity designs should be aesthetically pleasing and treatment of structures also improve visual amenity. For example, natural building materials such as stone and timber, should be considered for architectural features, and	Improve visual amenity of the new buildings, NDAs in general and integrate as best possible into the surrounding landscape	Detailed Design Consultant	Throughout NDAs	Prior to Construction	N/A

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		light earthy tone colours such as shades of green, shades of grey, shades of brown and off-white should also be considered to reduce the visibility of the development components, including all roadwork, buildings and noise barriers. In addition, the design of structures should consider green roofs were feasible, following stated guidelines. All Noise barriers, particularly noise barriers but also any barriers proposed for ecological impact mitigation, should be kept to a practical minimum, and be of such a designed as to integrate as well as possible into the surrounding visual context and be as low as practical to minimize blocking views. Noise barrier design, including vertical, cantilever or curved, and noise enclosures including semi-enclosure and full enclosure, at grade and/ or elevated, should follow the guidelines stated. Construction time frame should also be considered and designs seek to keep it to a practical minimum.					
S12.9 MM14.4	LV 4	Avoid affecting Watercourses – In the detailed design, consideration should be made of watercourses, to minimize any impacts e.g. at new bridge crossings, viaducts, road alignment etc. Guidelines stated should be followed. For example, for the stream at Siu Hang San Tsuen in FLN NDA, much of the stream is located underneath the viaduct for the proposed Fanling Bypass. In order to avoid impacts to the stream, the detailed	Avoid direct impacts to watercourses	Detailed Design Consultant/ Contractor	All watercourses, particularly the stream at Siu Hang San Tsuen that will flow under the Fanling Bypass Eastern	Prior to Construction and Construction Phase	^

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		final design of the viaduct should follow guidelines and ensure that no viaduct footings or other structures are placed in the stream. Bridges and box culverts should also be used to minimize the necessity of watercourse modification and protect the watercourses where necessary.			Section		
Landscape and Visual (Construction)							
S.12.9 MM3	LV5	Open Space Provision - the principles adopted in the RODP planning ensure that public open space systems are incorporated. All requirements for open space areas stipulated in the planning documents for the formulation of the Preliminary Layout Plan should be adhered to.	Reprovision of open space. Enhance visual amenity of the area and improve the overall landscape character	Government Developer/ Detailed Design Consultant/ Contractor/	Onsite as stipulated in the planning documents for the formulation of the Preliminary Layout Plan	Prior to Construction and Construction Phas	N/A
S.12.9 MM4	LV6	Tree Protection & Preservation – Exiting trees to be retained within the Project Site should be carefully protected during construction. In particular OVTs will be preserved according to ETWB Technical Circular (Works) No. 29/2004. Detailed Tree Protection Specification shall be provided in the Contract Specification. Under this specification, the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in Contractor's works areas.	Protect and Preserve Trees	Government / Detailed Design Consultant/ Contractor	Onsite	Prior to Construction and Construction Phase	N/A

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		A detailed tree survey will be carried out for the Tree Removal Application (TRA) process which will be carried out at the later detailed design stage of the Project. The detailed tree survey will propose which trees should be retained, transplanted or felled and will include details of tree protection measures for those trees to be retained					
S.12.9 MM5	LV7	Tree Transplantation – Trees unavoidably affected by the Project works should be transplanted where practical. Trees should be transplanted straight to their final receptor site and not held in a temporary nursery as far as possible. A detailed Tree Transplanting Specification shall be provided in the Contract Specification, where applicable. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project programme. A detailed transplanting proposal will be submitted to relevant government departments for approval in accordance with ETWBTC 2/2004 and 3/2006 and final locations of transplanted trees should be agreed prior to commencement of the work. For trees associated with highways e.g. roadside planting along highways, that are unavoidably affected and should be transplanted,	Transplant Trees where suitable for transplantation	Government / Detailed Design Consultant/ Contractor	Onsite where possible. Otherwise consider offsite locations	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A

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		HyD HQ/GN/13 'Interim Guidelines for Tree Transplanting Works under Highways Department's Vegetation Maintenance Ambit' should be referred to.					
S.12.9 MM6	LV8	Slope Landscaping – Site formation should be reduced as far as possible. Seeding of modified slopes should be done as soon as grading works are completed to prevent erosion and subsequent loss of landscape resources and character. Woodland tree seedlings and/ or shrubs should be planted where slope gradient and site conditions allow. In addition, landscape planting should be provided for the retaining structures associated with modified slopes where conditions allow. All slope landscaping works should comply with GEO Publication No. 1/2011-Technical Guidelines on Landscape Treatment for Slopes.	To avoid substantial slope cutting and fill slopes. To prevent erosion and subsequent loss of landscape resources and character. To ensure man-made slopes are as visually amenable as possible.	Government / Detailed Design Consultant/ Contractor	Onsite	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
S.12.9 MM7	LV9	Compensatory Planting – Compensatory tree planting for felled trees shall be provided to the satisfaction of relevant Government departments. Required numbers and locations of compensatory trees shall be determined and agreed separately with Government during the Tree Removal Application process under ETWBTC 3/2006. Compensatory planting is proposed at the potential open areas such as	Compensate for trees and shrubs lost due to the Project.	Government / Detailed Design Consultant/ Contractor	Onsite where possible. Otherwise consider offsite locations	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A

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		open spaces, amenity areas, open areas of the streetscapes, as well as the open areas within development lots. Compensatory planting for shrubs should be considered in suitable locations. Native species such as *Melastoma malabathricum, Diospyros vaccinioides, Gardenia jasminoides, Ixora chinensis, Ligustrum sinense, Litsea rotundifolia, Melastoma dodecandrum, Atalantia buxifolia, Rhodomyrtus tomentosa, Rhaphiolepis indica, and Rhododendron simsii* are suggested.					
S.12.9 MM8	LV10	Woodland Compensatory Planting –Specific Woodland compensatory planting is proposed for any areas of quality woodland that are unavoidably affected by the Project. The location and design of the woodland compensatory planting will principally be within habitats of lower value such as upland grassland. The proposed locations are identified, for example, on the foothills of Tai Shek Mo, and on the higher ground of Fung Kong Shan in KTN NDA; along Fanling Bypass; and a small area in the northern FLN NDA. The intention of the compensatory woodland will be to recreate areas of quality woodland, not necessarily to compensate for loss of trees on a like for like basis (See E18 & E27 also). Native tree species are suggested for planting in the appropriate					N/A

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		locations, including *Ailanthus fordii, Bischofia javanica, Castanopsis fissa, Celtis sinensis, Cinnamomum burmannii, Cinnamomum camphora, Xanthoxlyum avicennaeHibiscus tiliaceus, Liquidambar formosana, Sapium discolor, Schefflera heptaphylla and Ilex rotunda*. In addition some understory vegetation may be planted including shrubs such as *Atalantia buxifolia, Diospyros vaccinioides, Gardenia jasminoides, Ixora chinensis, Ligustrum sinense, Litsea rotundifolia, Melastoma malabathricum, Melastoma dodecandrum, Rhodomyrtus tomentosa, Rhaphiolepis indica, and Rhododendron simsii*. The area allocated for compensatory woodland planting allows in part for the fact that it will take some time for the compensatory planting to achieve the landscape and ecological function and value of the area to be lost. In addition, it allows for the fact that not all of the areas identified for planting will prove to be plantable, by virtue of topography and ground conditions and, especially, because though the areas identified are largely grassland it is inevitable that these areas will already support some patches of trees and shrubs which would be inappropriate for further planting.					

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S.12.9 MM9	LV11	Vertical Greening – Planting of climbers to grow up vertical surfaces were appropriate (e.g. building edges, piers).	Soften hard surfaces and facilities	Government / Developer/ Detailed Design Consultant/ Contractor	On appropriate structures	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
S.12.9 MM10	LV12	Green Roof – Roof greening where appropriate should be established on proposed buildings as per the guidelines stated. These guidelines provide further details including information regarding structural loading, design, maintenance, etc. considerations as well as providing information on what types of plants might be suitable.	Reduce exposure to untreated concrete surfaces and particularly mitigate visual impact to VSRs at high levels. Provide greening.	Government / Developer/ Detailed Design Consultant/ Contractor	On appropriate buildings	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
S.12.9 MM11	LV13	Screen Planting – Tall screen/buffer trees and shrubs should be planted. This measure may additionally form part of the compensatory planting.	To screen proposed structures such as roads and buildings. Improve compatibility with the surrounding environment and create a pleasant pedestrian environment	Government / Detailed Design Consultant/ Contractor	Along roads, around suitable built structures, or around VSRs to contain their view out to the NDA structures.	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A

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S.12.9 MM12	LV14	Road Greening –For viaducts, soft landscaping should be provided to soften the hard, straight edges (for climbers used to cover the vertical, hard surfaces of the piers – see MM9 Vertical Greening) and shade tolerant plants should be planted, where light is sufficient, to improve aesthetic value of areas under viaducts. Both at grade planting and use of elevated planters should be considered for the soft landscaping of viaducts, taking into account the preference to minimize the overall viaduct bulk and integrate architectural forms and textural finishes which improve aesthetics. For at grade roads, planting should be considered along central dividers and on road islands e.g. in the middle of roundabouts. (Roadside planting i.e. at the road edge and not in the central divider or road island, is considered part of Screen Planting)	To soften the hard, straight edges and provide greening along roads.	Government / Developer/ Detailed Design Consultant/ Contractor	On viaducts or along roads	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
S.12.9 MM13 & EIA Annex 13	LV15	Marsh/Wetland Compensation –The proposed Long Valley Nature Park (LVNP) will be designed and implemented to enhance on- wetland areas within the LVNP. (See E4,E15 and E25 also) Also see LV16, LV17, and LV18 as wetland planting should be provided along the embankments and beds of modified/ reprovisioned watercourses.	Compensate for Marsh/ Wetland lost due to the Project.	Project Proponent/ Detailed Design Consultant/ Contractor/ Maintenance Authority	Onsite where possible. Otherwise consider offsite locations	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A

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S.12.9 MM14.1	LV16	Reprovision of Natural Stream – Where natural streams are unavoidably affected along some of their length, they can be diverted to avoid the proposed new developments and retain the integrity of the whole stream. Detailed design of any stream diversion should follow the Guidelines in ETWB Technical Circular (Works) No. 5/2005 (Protection of natural streams/rivers from adverse impacts arising from construction works) and appropriate construction methods should be used. Two short stretches of the Ma Tso Lung Stream will be affected by Project in the KTN NDA; by the LMC Eastern Connection Road on the western border of Site F1-3 and further upstream by Site E-2. At both these locations, the stream will be reprovisioned and maintain the flow between unaffected sections of the stream. The reprovisioned stream will be provided with a natural bed and banks, as well as having an area of marsh/ pool next to it and trees and shrubs further from the banks. (See E2, E14 and E24 also)	Achieve a natural stream, similar to existing, including wetland planting provision for embankments	Government / Developer/ Detailed Design Consultant/ Contractor	Streams and channelized watercourses e.g. a Ma Tso Lung and Siu Han San Tsuen	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
S12.9 MM14.2	LV17	Stream Buffer Planting –Providing a minimum 10 m buffer with planting (where there is a general presumption against any development taking place) along streams where they flow close to developments, confers a degree of protection to the stream course and its associated vegetation.	Protect natural streams	Government / Developer/ Detailed Design Consultant/ Contractor	Streams and channelized watercourses e.g. a Ma Tso Lung and Siu Han	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A

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		For the stream at Ma Tso Lung in KTN NDA, the middle and upper sections will be designated as Green Belt zone where there is a general presumption against development as buffer to the stream. For the stream at Siu Hang San Tsuen in FLN NDA, within the NDA boundary much of the stream would be located underneath the viaduct for the proposed Fanling Bypass. To the south of the viaduct the stream flows through an Open Space area D1-3. In this Open Space zone a 10m buffer is proposed in which natural vegetation will be retained and enhanced and human activities will be limited in order to avoid direct impacts to the stream bed and to minimize potential indirect impacts to the stream and riparian corridor. (See E3 also)			San Tsuen		
S12.9 MM14.3	LV18	Enhancement Planting along Embankment - For channelized watercourses, if these are modified, the Drainage Services Department Practice Note No.1/2005 – Guidelines on Environmental Considerations for River Channel Design, should be considered and appropriate mitigation measures included ensuring the new watercourses match the existing as far as possible. Measures can include enhancement planting to upgrade the channels as appropriate, including consideration of wetland planting along embankments where appropriate; as well as consideration of the best materials for the channel lining (e.g. gabion). All measures must also ensure any necessary maintenance work can be carried out and that the channel meets all its requirements for water flow, etc.	Minimize the necessity of watercourse modification, protect watercourses where possible and enhance channelized watercourses	Government / Developer/ Detailed Design Consultant/ Contractor	Channelized watercourse, particularly the Ma Wat River Channel Diversion	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A

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		For example, a stretch of the Ma Wat River Channel in the south of FLN NDA will have to be diverted for the construction of the Fanling Bypass Eastern Section. This measure will be particularly relevant in this area.					
S12.9 MM15	LV19	Pond Replacement –Principles adopted in the design of the NDAs ensure that they incorporate ponds within the RODPs. All requirements for ponds stipulated in the planning documents for the formulation of the Preliminary Layout Plan (e.g. at Fung Kong Shan Park in E1-7 of KNT ND) should be adhered to.	Reprovision for ponds lost due to the Project.	Project Proponent/ Detailed Design Consultant/ Contractor/ Maintenance Authority	E1-7 and C1-9 (LVNP) in KNT NDA and generally throughout NDA	Prior to Construction, Construction Phase Maintenance in Operation Phase	N/A
S.12.9 MM16	LV20	Screen Hoarding –Screen hoarding shall be erected along areas of the construction works site boundary where the works site borders publically accessible routes and/or is close to visually sensitive receivers (VSRs). It is proposed that the screening be compatible with the surrounding environment and where possible, non- reflective, recessive colours be used. Any works areas near the ecological sensitive areas should erect 2m high dull green site boundary fence. Details can refer to the ecological impact assessment (Chapter 13 of the EIA report).	To screen undesirable views of the works site.	Contractor	Throughout NDAs	Construction Phase	^

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S.12.9 MM17	LV21	Light Control – Construction day and night time lighting should be controlled to minimize glare impact to adjacent VSRs during the Construction phase. Street and night time lighting shall also be controlled to minimize glare impact to adjacent VSRs during the operation phase.	To minimize glare impact to adjacent VSRs	Government / Developer/ Contractor	Throughout NDAs	Construction and Operation Phases	N/A
Ecology (Prior to Construction Phase or throughout the project)							
S. 13.9	E1	Egretry Habitat Creation & Management Plan (EHCMP) and Woodland Planting and Management Plan (WPMP)	Compensate for loss of Man Kam To Road egretry. Compensate for loss of secondary woodland and hillside plantation of ecological significance.	Project Proponent/ Detailed Design Consultant (EHCMP and WPMP).	FLN area A1-7 (egretry compensation). KTN areas E1-8 and G1-3 (woodland compensation).	Detailed design phase	N/A

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S. 13.9	E2	Detailed design of development along lower reaches of Ma Tso Lung Stream and Ma Tso Lung San Tsuen Stream in OU zones F1-2 and F1-3 and detailed design of LMC Loop Eastern Connection Road with restoration of diverted stream and riparian corridor, permanent barrier and underpass on the at-grade section Compensation for the loss of seasonally wet grassland at Ma Tso Lung by habitat restoration and enhancement along diverted section of Ma Tso Lung Stream	Minimize impacts on Ma Tso Lung Stream and Ma Tso Lung San Tsuen Stream and riparian corridor of importance to species of conservation significance.	Project Proponent/ Detailed Design Consultant. (design of Ma Tso Lung Stream diversion and buffer zone habitat restoration measures)	KTN areas F1-2 and F1-3 and LMC Loop Eastern Connection Road.	Detailed design and construction phases.	N/A
S13.9	E3	Detailed design, implementation and management of Siu Hang San Tsuen Stream to have 10m wide vegetated buffer in Open Space zone D1-3, Fanling Bypass to cross stream on viaduct.	Minimize impacts on Siu Hang San Tsuen Stream and stream fauna.	PlanD, Project Proponent/ Detailed Design Consultant/ Contractor/ Maintenance Authority	FLN area D1-3.	Detailed design, construction and operation phases.	N/A
S.13.9	E4	Long Valley Nature Park (LVNP) designation, design and implementation.	Compensate for wetland loss arising from the project and protection of	Project Proponent/ Detailed Design	Long Valley KTN area C1-9 and any suitable areas to	Detailed design phase	N/A

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		Enhancement of non-wetland habitats in LVNP. Planning for the advanced provision of alternative foraging habitat along main river channels for large waterbirds.	Long Valley from adverse ecological impacts including provision of additional/alternative habitat for large waterbirds using Ng Tung, Sheung Yue and Shek Sheung River channels.	Consultant (Long Valley Nature Park Habitat Creation & Management Plan)	be identified during the planning stage		
S13.9	E5	Stringent planning control requirements in Long Valley north and west of Sheung Yue River, including Ho Sheung Heung egretry.	Protect these wetland areas from indirect impacts to habitats and fauna especially breeding ardeids foraging in these areas and utilizing flight-lines from Ho Sheung Heung egretry. Avoid habitat loss and disturbance to fauna of conservation significance, especially nesting ardeids Maintenance of ecological linkages with Deep Bay ecosystem and avoidance	PlanD.	KTN areas C2-1 and C2-2 , Ho Sheung Heung egretry and areas north of Long Valley along the Ng Tung River to the Shenzhen River	Detailed design phase	N/A

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			of severance of these linkages, especially for waterbirds				
S13.9	E6	Planning for creation of Green Corridors along the Sheung Yue, Ng Tung and Shek Sheung Rivers, retention and provision of screen plantings where feasible; and detailed design of Open Space areas and development areas along river corridors.	Minimize disturbance to large waterbirds using Ng Tung, Sheung Yue and Shek Sheung River channels. Maintain ecological linkages within NDA Project Area and between Project Area and Deep Bay ecosystem, especially for Long Valley and waterbirds.	Project Proponent/ Detailed Design Consultant/ Contractor/ Maintenance Authority	Area along Ng Tung, Sheung Yue and Shek Sheung River	Detailed design, construction and operational phases.	N/A
S13.9	E7	Building setback and mounding in locations near Long Valley. KTN area B3-12 (30m setback from road D3) and KTN area C1-1 (15m setback and mounding along northern and northeastern boundaries).	Minimization of disturbance impacts to fauna using Long Valley.	PlanD	KTN area B3-12 (30m setback from road D3) and KTN area C1-1 (15m setback and mounding along	Detailed design phase	N/A

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					northern and northeastern boundaries.		
S13.9	E8	Preparation and implementation of Guidelines for building design measures to minimize mortality and light and glare impacts to fauna. Guidelines to address the following measures: Use opaque, non-transparent, non-reflective noise barriers for all developments associated with the Project. Measures to include the following: • Fritting, or the placement of ceramic lines or dots on glass, which creates a visual barrier to birds and reduces air conditioning loads by lowering heat gain, while still allowing light transmission for interior spaces. It is most successful when the frits are applied on the outside surface. Frosted glass has similar effects; • Angled glass to be used only for smaller panes in buildings with a limited amount of glass; • The use of glass that reflects UV light (primarily visible to birds, but not to humans) to reduce collisions; • Film and art treatment allow glass surfaces to be used a medium of expression, often related to the nature and use of the building, as well indicating to birds their impenetrability;	Minimize mortality and disturbance impacts on fauna, especially mammals and birds.	PlanD/ Project Proponent/ Developer/ Detailed Design Consultant	Near Long Valley	Detailed design phase	N/A

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		• Lightweight external screens can be added to windows or become a façade element of larger buildings, and are suitable where non-operable windows are prevalent, which is often the case in modern buildings in HK					
	E9	Not used					N/A
S13.8	E10	Review development footprint and layout of proposed developments in KTN areas D1-11a and G1-5 to avoid/minimize direct and indirect impacts on secondary woodland at Ho Sheung Heung and shrubland at Crest Hill.	Minimize loss of secondary woodland and shrubland of ecological value.	Project Proponent/Detailed Design Consultant	KTN areas D1-11a and G1-5 to avoid/minimize direct and indirect impacts on secondary woodland at Ho Sheung Heung and Crest Hill	Detailed design phase	N/A

S13.9	E11	No construction during ardeid breeding season (1 March to 31 July) along Sheung Yue River north or east of KTN D1-5 and east of D1-9 and C2-3, construction hours restricted to 09.00 to 17.30 during 1 March to 31 July on new pedestrian bridge over the Sheung Yue River, new pedestrian bridge over the tidal section of the Ng Tung River and existing bridge between KTN areas C2-2 and C1-8. Review Design and construction methods for all bridges especially those on the Sheung Yue and tidal Ng Tung Rivers and adopt methods which minimize impacts on Long Valley and the rivers, and disturbance and fragmentation impacts on fauna. No overlap in construction of bridges over main river channels. Measures to ensure no hydrological disruption to Long Valley Watercourse and water supply to Long Valley to be designed at the detailed design stage for the rechannelisation of the Long Valley Watercourse and the development of areas through which it passes, including KTN area B3-12. Contingency plan to address any disruption to be included in LVNP HCMP. Avoid removal or interference with screen planting undertaken under the Construction of Cycle Tracks and Associated Supporting Facilities from Sha Po Tsuen to Shek Sheung project.	Minimize disturbance impacts (including cumulative impacts with cycle track project) to flight-lines of breeding ardeids.	Project Proponent/ Detailed Design Consultant Contractor	Along and within Sheung Yue and Ng Tung Rivers, Long Valley, Long Valley and watercourse upstream areas including KTN area B3-12	Detailed design/ construction phase.	^

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Ecology (Construction Phase)							
S13.9	E12	Compensatory egretry habitat provision and establishment. Review condition and location of egretries before commencement of works. Formulate and implement additional mitigation measures as appropriate. Phasing of works near and within Man Kam To Road Egretry outside breeding season	Compensate for loss of Man Kam To Road egretry habitat. Avoid mortality of breeding egrets	Project Proponent/ Detailed Design Consultant/ Contractor	FLN area A1-7 500m from Man Kam To Road Egretry.	Construction phase.	^
S13.9	E13	Review design and construction methods for bridges, especially those on the Sheung Yue and tidal Ng Tung Rivers, and adopt measures which minimize impacts on rivers and disturbance and fragmentation impacts on fauna. No construction during ardeid breeding season (1 March to 31 July) along Sheung Yue River north and east of KTN area D1-5 and east of D1-9 and C2-3 and restriction of working hours on new pedestrian bridges over the Sheung Yue River and tidal Ng Tung River to 09.00 to 17.30 during the ardeid breeding season (1 March to 31 July) Provision of alternative foraging habitat along main river channels for large waterbirds.	Minimize impacts on rivers and disturbance and fragmentation impacts on fauna	Project Proponent/ Detailed Design Consultant/ Contractor	Along and within the Sheung Yue, Ng Tung and Shek Sheung Rivers	Detailed design and construction phases.	^

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S13.9	E14	Buffer zone of 15-30m as appropriate on both sides (not less than 45m total width) of Ma Tso Lung Stream north of the point where it is crossed by the LMC Loop Eastern Connection Road, and Ma Tso Lung Stream diversion during construction of the LMC Loop Eastern Connection Road; development along lower reaches of Ma Tso Lung Stream and Ma Tso Lung San Tsuen Stream in OU zones in KTN areas F1-2 and F1-3 to be set back beyond buffer. Construction and maintenance of permanent 1.2m high solid faunal barrier at all at-grade sections of LMC Loop eastern connection Road north of junction with road D4 within 15-30m as appropriate of Ma Tso Lung Stream buffer and construction of faunal underpass beneath road. Compensation for the loss of seasonally wet grassland at Ma Tso Lung by habitat restoration and enhancement along diverted section of Ma Tso Lung Stream.	Minimize impacts direct and indirect impacts of habitat loss, disturbance, pollution and fragmentation on Ma Tso Lung Stream and marsh and riparian corridor of importance to species of conservation significance.	PlanD/ Project Proponent/ Developer/ Detailed Design Consultant/ Contractor. (Design of Ma Tso Lung Stream diversion and buffer zone habitat restoration measures)	KTN areas H1-1, F12 and F1-3 and Lok Ma Chau Loop Eastern Connection Road.	Detailed design and construction phases.	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
S.13.9	E15	Creation and enhancement of proposed Long Valley Nature Park and creation and enhancement of wetland and buffer planting within LVNP.	Compensate for wetland loss arising from the project	Project Proponent/ Contractor (LVNP Detailed Habitat Creation & Management Plan)	Long Valley, (KTN area C1-9).	Construction phase.	^
S13.9	E16	Creation of Green Corridors along the Sheung Yue, Ng Tung and Shek Sheung Rivers, retention and provision of screen plantings where feasible; provision of Open Space areas and development areas along river corridors; Design and erection of 2m high solid dull green site barrier fence between river channel and any active works area along or adjacent to Ng Tung, Sheung Yue and Shek Sheung Rivers. Ng Tung, Sheung Yue and Shek Sheung Rivers screen planting.	Minimize disturbance to waterbirds using Ng Tung, Sheung Yue and Shek Sheung River channels.	Detailed Design Consultant/ Contractor	Ng Tung, Sheung Yue and Shek Sheung Rivers	Detailed design and Construction phases.	^

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S13.9	E17	Design and erection of 2m high solid dull green site barrier fence between active works areas and all areas/habitats of ecological importance on edge of development areas, including along any roads adjacent to or penetrating into areas/habitats of ecological importance. Erection of a 2m high dull green site barrier fence at the edge of the works area or 30m from Ma Tso Lung Stream and tributaries, whichever distance is the greater.	Minimize dust, disturbance, mortality and other adverse ecological impacts on habitats, flora and fauna. Measures to minimize flight- line impacts to birds, especially breeding ardeids.	Contractor	Interface between areas/habitats/ fauna/ flora of ecological importance (e.g. KTN areas B1-3, C1-5, C1- 6, C1-9, C2-2, C2-4, C2-5, D1-8, E1-8, G1-3, H1-1, Ma Tso Lung Stream and tributaries; FLN areas A1-3, A1-7 and A1-9) and works areas; and around any works areas north of the Fanling Bypass and north of the Ng Tung River west of the western terminus	Construction phase.	*

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
					of the Fanling Bypass. Riparian corridor of Ma Tso Lung Stream and tributaries.		
S13.9	E18	Compensatory woodland planting, management and maintenance.	Compensate for loss of secondary woodland and hillside plantation of ecological significance.	Project Proponent/ Contractor	KTN areas E1-8 and G1-3.	Construction phase.	N/A
S13.9	E19	Use opaque, non-transparent, non-reflective noise barriers for all construction sites. Unnecessary lighting should be avoided.	Minimize mortality impacts on birds.	Contractor	All construction sites	Construction phase.	^
S13.9	E20	Pre-site clearance check for presence of flora or fauna of conservation significance and bat roosts. If any are found, measures should be proposed and implemented to avoid, minimize and/or compensate for impacts; including adjustments to design, timing of works, transplantation and translocation. Seek agreement of relevant authorities including AFCD in respect of proposed measures, then implement.	Minimize impacts to flora and fauna of conservation significance. Minimize impacts to protected fauna and flora species. Formulate and implement mitigation measures to	Government/ Developer/ Contractor/ Ecologist	All construction sites.	Prior to clearance of vegetation and structures.	N/A

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		Pre-site clearance check on all construction sites and pre –works commencement check on watercourses to be physically and/or hydrologically impacted by construction activities for presence of protected plant species/specimens of conservation significance. If any are found consider adjustments to avoid, minimize and/or compensate for impacts; including adjustments to design, timing of works, Pre-site clearance of construction sites in Crest Hill area, KTN areas D1-7, D1-11 and G1-5 (where Eurasian Hobby was recorded) and on Cheung Po Tau, FLN area A3-1 (where Grey Nightjar was recorded) for presence of any breeding birds/breeding sites. If any are found consider adjustments to avoid, minimize and/or compensate for impacts; including adjustments to design, timing of works, transplantation and translocation. Seek agreement of relevant authorities including AFCD in respect of proposed measures, then implement. Pre-site clearance check on all construction sites for presence of Chinese Bullfrog, translocation to suitable areas including LVNP.	avoid, minimize and/or compensate for impacts; including adjustments to design, timing of works, transplantation and translocation.				
S13.9	E21	Pre-works commencement check on watercourses to be physically and/or hydrologically impacted by construction activities for presence of flora or fauna of conservation significance and bat roosts. If any are found consider adjustments to avoid, minimize and/or compensate for impacts; including adjustments to design, timing of works, transplantation and	Minimize impacts to flora and fauna of conservation significance. Minimize impacts to protected fauna and flora species. Consider	Government/ Developer/ Contractor/ Ecologist	All construction sites.	Prior to clearance of vegetation and structures.	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		translocation. Seek agreement of relevant authorities including AFCD in respect of proposed measures, then implement. Pre-site clearance check on all construction sites for presence of reptile species of conservation significance, capture and translocate to receptor site; review translocation options in respect to species in Ma Tso Lung area and determine whether release locally or elsewhere is appropriate. Seek agreement of relevant authorities including AFCD in respect of proposed measures then implement Pre-works commencement check on watercourses to be physically and/or hydrologically impacted by construction activities for presence of Small Snakehead and *Sommaniathelphusa zanklon*. Capture any *Sommaniathelphusa zanklon* found and translocate to Ma Tso Lung Stream/ other suitable areas including LVNP	and implement adjustments to avoid, minimize or compensate for impacts; including adjustments to design, timing of works, transplantation and translocation				
S13.9	E22	Prevention of dust, run-off and pollutants impacting Deep Bay catchment area and areas of ecological importance.	Avoid increase to pollution entering ecologically sensitive Deep Bay ecosystem.	Contractor	All construction sites.	Construction	N/A
Specific Mitigation Measures for Designated Projects							
DP2- Castle Peak Road Diversion (Major Improvement)							
Landscape and Visual (Detailed Design, Prior to Construction, Construction and Operational Phases)							

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
S.12.A9	LV1-DP2	General Good Practice Measures - For areas unavoidably disturbed by the Project on a short term basis e.g. works areas, the general principle to try and restore these to their former state to suit future land use, should be adhered to. With regard to topsoil, where identified, it should be stripped, treated appropriately, and where suitable and practical stored for re-use in the construction of the soft landscape works such as roadside amenity strips, and open space sites.		Detailed Design Consultant/ Contractor	Throughout NDAs,	Prior to Construction, Construction & for all planting, this should be installed as soon as the areas become available, to achieve early establishment	N/A
S.12.A9 MM14.4	LV4-DP2	Avoid affecting Watercourses – In the detailed design, consideration should be made of watercourses, to minimize any impacts e.g. at new bridge crossings, viaducts, road alignment etc. Guidelines stated should be followed. For example, for the stream at Siu Hang San Tsuen in FLN NDA, much of the stream is located underneath the viaduct for the proposed Fanling Bypass. In order to avoid impacts to the stream, the detailed final design of the viaduct should follow guidelines and ensure that no viaduct footings or other structures are placed in the stream. Bridges and box culverts should also be used to minimize the necessity of watercourse modification and protect the watercourses where necessary.	Avoid direct impacts to watercourses	Detailed Design Consultant/ Contractor	All watercourses, particularly the stream at Siu Hang San Tsuen that will flow under the Fanling Bypass Eastern Section	Prior to Construction and Construction Phase	N/A
S.12.A9 MM4	LV5-DP2	Tree Protection & Preservation – Exiting trees to be retained within the Project Site should be carefully protected during construction.	Protect and Preserve Trees	Government/ Detailed	Onsite	Prior to Construction	^

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		In particular OVTs will be preserved according to ETWB Technical Circular (Works) No. 29/2004. Detailed Tree Protection Specification shall be provided in the Contract Specification. Under this specification, the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in Contractor"s works areas. A detailed tree survey will be carried out for the Tree Removal Application (TRA) process which will be carried out at the later detailed design stage of the Project. The detailed tree survey will propose which trees should be retained, transplanted or felled and will include details of tree protection measures for those trees to be retained.		Design Consultant/ Contractor		and Construction Phase	
S.12.A9 MM5	LV6-DP2	Tree Transplantation – Trees unavoidably affected by the Project works should be transplanted where practical. Trees should be transplanted straight to their final receptor site and not held in a temporary nursery as far as possible. A detailed Tree Transplanting Specification shall be provided in the Contract Specification, where applicable. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project programme. A detailed transplanting proposal will be submitted to relevant government departments for approval in accordance with ETWBTC 2/2004 and 3/2006 and final locations of transplanted trees should be agreed prior to commencement of the work.	Transplant Trees where suitable for transplantation	Government Detailed Design Consultant/ Contractor	*Onsite where possible, otherwise consider offsite locations*	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A

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		For trees associated with highways e.g. roadside planting along highways, that are unavoidably affected and should be transplanted, HyD HQ/GN/13 Interim Guidelines for Tree Transplanting Works under Highways Department's VegetationMaintenance Ambit" should be referred to.					
S.12.A9 MM6	LV7-DP2	Slope Landscaping – Site formation should be reduced as far as possible. Seeding of modified slopes should be done as soon as grading works are completed to prevent erosion and subsequent loss of landscape resources and character. Woodland tree seedlings and/ or shrubs should be planted where slope gradient and site conditions allow. In addition, landscape planting should be provided for the retaining structures associated with modified slopes where conditions allow. All slope landscaping works should comply with GEO Publication No. 1/2011-Technical Guidelines on Landscape Treatment for Slopes.	To avoid substantial slope cutting and fill slopes. To prevent erosion and subsequent loss of landscape resources and character. To ensure man-made slopes are as visually amenable as possible.	Government Detailed Design Consultant/ Contractor	*Onsite*	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
S.12.A9 MM8	LV9-DP2	Woodland Compensatory Planting –Specific Woodland compensatory planting is proposed for any areas of quality woodland that are unavoidably affected by the Project. The location and design of the woodland compensatory planting will principally be within habitats of lower value such as upland grassland. The proposed locations are identified, for example, on the foothills of Tai Shek Mo, and on the higher ground of Fung Kong Shan in KTN NDA; along Fanling Bypass; and a small area in the northern FLN NDA.	Reprovide areas of woodland to compensate for those areas of quality woodland lost.	Project Proponent/ Detailed Design Consultant/ Contractor/ Maintenance Authority	*In areas identified in the EIA Landscape Mitigation Plans and as agreed with AFCD*	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		The intention of the compensatory woodland will be to recreate areas of quality woodland, not necessarily to compensate for loss of trees on a like for like basis (See E18 & E27 also). Native tree species are suggested for planting in the appropriate locations, including *Ailanthus fordii, Bischofia javanica, Castanopsis fissa, Celtis sinensis, Cinnamomum burmannii, Cinnamomum camphora, Xanthoxlyum avicennaeHibiscus tiliaceus, Liquidambar formosana, Sapium discolor, Schefflera heptaphylla and Ilex rotunda. In addition some understory vegetation may be planted including shrubs such as Atalantia buxifolia, Diospyros vaccinioides, Gardenia jasminoides, Ixora chinensis, Ligustrum sinense, Litsea rotundifolia, Melastoma malabathricum, Melastoma dodecandrum, Rhodomyrtus tomentosa, Rhaphiolepis indica, and Rhododendron simsii.* The area allocated for compensatory woodland planting allows in part for the fact that it will take some time for the compensatory planting to achieve the landscape and ecological function and value of the area to be lost. In addition, it allows for the fact that not all of the areas identified for planting will prove to be plantable, by virtue of topography and ground conditions and, especially, because though the areas identified are largely grassland it is inevitable that these areas will already support some patches of trees and shrubs which would be inappropriate for further planting.					
S.12.A9	LV10-	Vertical Greening – Planting of climbers to grow up vertical surfaces were	Soften hard surfaces and	Government	*On appropriate*	Prior to	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
MM9	DP2	appropriate (e.g. viaduct piers, noise barriers).	facilities	Detailed Design Consultant/ Contractor	*structures*	Construction, Construction Phase & Maintenance in Operation Phase	
S.12.A9 MM11	LV11-DP2	Screen Planting – Tall screen/buffer trees and shrubs should be planted. This measure may additionally form part of the compensatory planting.	To screen proposed structures such as roads and buildings. Improve compatibility with the surrounding environment and create a pleasant pedestrian environment	Government Detailed Design Consultant/ Contractor	*Along roads, around suitable built structures, or around VSRs to contain their view out to the NDA structures.*	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
S.12.A9 MM12	LV12-DP2	Road Greening –For viaducts, soft landscaping should be provided to soften the hard, straight edges (for climbers used to cover the vertical, hard surfaces of the piers – see MM9 Vertical Greening) and shade tolerant plants should be planted, where light is sufficient, to improve aesthetic value of areas under viaducts. Both at grade planting and use of elevated planters should be considered for the soft landscaping of viaducts, taking into account the preference to minimize the overall viaduct bulk and integrate architectural	To soften the hard, straight edges and provide greening along roads.	Government Detailed Design Consultant/ Contractor	*On viaducts or along roads.*	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		forms and textural finishes which improve aesthetics. For at grade roads, planting should be considered along central dividers and on road islands e.g. in the middle of roundabouts. (Roadside planting i.e. at the road edge and not in the central divider or road island, is considered part of Screen Planting)					
S.12.A9 MM13 & EIA Annex 13	LV13-DP2	Marsh/Wetland Compensation –The proposed Long Valley Nature Park (LVNP) will be designed and implemented to enhance onwetland areas within the LVNP. (See E4,E15 and E25 also) Also see LV16, LV17, and LV18 as wetland planting should be provided along the embankments and beds of modified/ reprovisioned watercourses.	Compensate for Marsh/ Wetland lost due to the Project.	Project Proponent/ Detailed Design Consultant/ Contractor/ Maintenance Authority	*Onsite where possible. Otherwise consider offsite locations*	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
S.12.A9 MM14.3	LV14-DP2	Enhancement Planting along Embankment - For channelized watercourses, if these are modified, the Drainage Services Department Practice Note No.1/2005 – Guidelines on Environmental Considerations for River Channel Design, should be considered and appropriate mitigation measures included ensuring the new watercourses match the existing as far as possible. Measures can include enhancement planting to upgrade the channels as appropriate, including consideration of wetland planting along embankments where appropriate; as well asconsideration of the best materials for the channel lining (e.g. gabion). All measures must also ensure any necessary	Minimize the necessity of watercourse modification, protect watercourses where possible and enhance channelized watercourses	Government / Detailed Design Consultant/ Contractor	*Channelized watercourse, particularly the Ma Wat River Channel Diversion*	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		maintenance work can be carried out and that the channel meets all its requirements for water flow, etc. For example, a stretch of the Ma Wat River Channel in the south of FLN NDA will have to be diverted for the construction of the Fanling Bypass Eastern Section. This measure will be particularly relevant in this area.					
S.12.A9 MM15	LV15-DP2	Pond Replacement –Principles adopted in the design of the NDAs ensure that they incorporate ponds within the RODPs. All requirements for ponds stipulated in the planning documents for the formulation of the Preliminary Layout Plan (e.g. at Fung Kong Shan Park in E1-7 of KNT ND) should be adhered to.	Reprovision for ponds lost due to the Project.	Project Proponent/ Detailed Design Consultant/ Contractor/ Maintenance Authority	*E1-7 and C1-9 (LVNP) in KNT NDA and generally throughout NDA*	Prior to Construction, Construction Phase Maintenance in Operation Phase	N/A
Landscape and Visual (Construction)							
S.12.A9 MM16	LV16-DP2	Screen Hoarding –Screen hoarding shall be erected along areas of the construction works site boundary where the works site borders publically accessible routes and/or is close to visually sensitive receivers (VSRs). It is proposed that the screening be compatible with the surrounding environment and where possible, nonreflective, recessive colours be used. Any works areas near the ecological sensitive areas should erect 2m high dull green site boundary fence. Details can refer to the ecological impact assessment (Chapter 13 of the EIA report).	To screen undesirable views of the works site.	Contractor	*Throughout NDAs*	Construction Phase	^

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
S.12.A9 MM17	LV17-DP2	Light Control – Construction day and night time lighting should be controlled to minimize glare impact to adjacent VSRs during the Construction phase. Street and night time lighting shall also be controlled to minimize glare impact to adjacent VSRs during the operation phase.	To minimize glare impact to adjacent VSRs	Government / Contractor	*Throughout NDAs*	Construction and Operation Phases	^
Ecology (Detailed Design, Construction and Operational Phases)							
S13.9	E2-DP2	Use opaque, non-transparent, non-reflective noise barriers. Unnecessary lighting should be avoided.	Minimize mortality impacts on birds.	Detailed Design Consultant/ Contractor/ Maintenance Authority	Within NDA.	Detailed design phase, Construction phase and Operation phase.	^
Ecology (Construction Phase)							
S.13.9	E3-DP2	Design and erection of 2m high solid dull green site barrier fence between active works areas and all areas/habitats of ecological importance.	Minimize dust, disturbance, mortality and other adverse ecological impacts on habitats, flora and fauna.	Contractor.	Interface between areas/habitats of ecological importance (KTN area B1-3) and works areas.	Construction phase.	^
S13.9	E4-DP2	Compensatory native woodland planting.	Compensate for loss of	Project	KTN NDA areas	Construction	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
			plantation of ecological significance.	Proponent / Contractor	E1-8 and G1-3.	phase.	
Cultural Heritage (Construction Phase)							
S11.6.2	CH5-DP2	Conducting Construction Vibration Monitoring and Structural Strengthening Measures Construction vibration monitoring and structural strengthening measures should be conducted during Construction phase based on the assessment result of baseline condition survey and baseline vibration impact assessment, so as to ensure the construction performance meets with the vibration standard stated in the EIA report.	To minimize the potential impacts during Construction phase on any identified potential vibration impacted built heritage features	Project Proponent/ Contractor	Identified potential vibration impacted built heritage features	Construction phase, with details specified in baseline condition survey and baseline vibration impact assessment,	N/A
DP3- KTN NDA Road P1 and P2 (New Road) and associated new Kwu Tung Interchange (New Road) and Pak Shek Au Interchange Improvement (Major Improvement)							
Landscape and Visual (Detailed Design, Prior to Construction, Construction and Operational Phases)							
S.12.A9	LV1-DP3	General Good Practice Measures - For areas unavoidably disturbed by the Project on a short term basis e.g. works areas, the general principle to try and restore these to their former state to suit future land use, should be adhered to. With regard to topsoil, where identified, it should be stripped, treated appropriately, and where suitable and practical stored for re-use in the construction of the soft landscape works such as roadside amenity strips, and open space sites.		Detailed Design Consultant/ Contractor	*Throughout NDAs,*	Prior to Construction, Construction & for all planting, this should be installed as soon as the areas become available, to achieve early establishment	^
S.12.A9	LV4-	Avoid affecting Watercourses – In the detailed design, consideration should	Avoid direct impacts to	Detailed	*All watercourses,*	Prior to Construction	^

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
MM14.4	DP3	be made of watercourses, to minimize any impacts e.g. at new bridge crossings, viaducts, road alignment etc. Guidelines stated should be followed. For example, for the stream at Siu Hang San Tsuen in FLN NDA, much of the stream is located underneath the viaduct for the proposed Fanling Bypass. In order to avoid impacts to the stream, the detailed final design of the viaduct should follow guidelines and ensure that no viaduct footings or other structures are placed in the stream. Bridges and box culverts should also be used to minimize the necessity of watercourse modification and protect the watercourses where necessary.	watercourses	Design Consultant/ Contractor	*particularly the stream at Siu Hang San Tsuen that will flow under the Fanling Bypass Eastern Section*	And Construction Phase	
S.12.A9 MM4	LV5-DP3	Tree Protection & Preservation – Exiting trees to be retained within the Project Site should be carefully protected during construction. In particular OVTs will be preserved according to ETWB Technical Circular (Works) No. 29/2004. Detailed Tree Protection Specification shall be provided in the Contract Specification. Under this specification, the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in Contractor‟s works areas. A detailed tree survey will be carried out for the Tree Removal Application (TRA) process which will be carried out at the later detailed design stage of the Project. The detailed tree survey will	Protect and Preserve Trees	Government Detailed Design Consultant/ Contractor	*Onsite*	Prior to Construction and Construction Phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		propose which trees should be retained, transplanted or felled and will include details of tree protection measures for those trees to be retained.					
S.12.A9 MM5	LV6-DP3	Tree Transplantation – Trees unavoidably affected by the Project works should be transplanted where practical. Trees should be transplanted straight to their final receptor site and not held in a temporary nursery as far as possible. A detailed Tree Transplanting Specification shall be provided in the Contract Specification, where applicable. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project programme. A detailed transplanting proposal will be submitted to relevant government departments for approval in accordance with ETWBTC 2/2004 and 3/2006 and final locations of transplanted trees should be agreed prior to commencement of the work. For trees associated with highways e.g. roadside planting along highways, that are unavoidably affected and should be transplanted, HyD HQ/GN/13 „Interim Guidelines for Tree Transplanting Works under Highways Department's Vegetation Maintenance Ambit" should be referred to.	Transplant Trees where suitable for transplantation	Government Detailed Design Consultant/ Contractor	*Onsite where possible. Otherwise consider offsite locations.*	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
S.12.A9 MM6	LV7-DP3	Slope Landscaping – Site formation should be reduced as far as possible. Seeding of modified slopes should be done as soon as grading works are completed to prevent erosion and subsequent loss of landscape resources and character. Woodland tree seedlings and/ or shrubs should be planted where	To avoid substantial slope cutting and fill slopes. To prevent erosion and	Government Detailed Design Consultant/	*Onsite*	Prior to Construction, Construction Phase &	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		slope gradient and site conditions allow. In addition, landscape planting should be provided for the retaining structures associated with modified slopes where conditions allow. All slope landscaping works should comply with GEO Publication No. 1/2011-Technical Guidelines on Landscape Treatment for Slopes.	subsequent loss of landscape resources and character. To ensure man-made slopes are as visually amenable as possible.	Contractor		Maintenance in Operation Phase	
S.12.A9 MM7	LV8-DP3	Compensatory Planting – Compensatory tree planting for felled trees shall be provided to the satisfaction of relevant Government departments. Required numbers and locations of compensate orytrees shall be determined and agreed separately with Government during the Tree Removal Application process under ETWBTC 3/2006. Compensatory planting is proposed at the potential open areas such as open spaces, amenity areas, open areas of the streetscapes, as well as the open areas within development lots. Compensatory planting for shrubs should be considered in suitable locations. Native species such as *Melastoma malabathricum, Diospyros vaccinioides, Gardenia jasminoides, Ixora chinensis, Ligustrum sinense, Litsea rotundifolia, Melastoma dodecandrum, Atalantia buxifolia, Rhodomyrtus tomentosa, Rhaphiolepis indica,* and *Rhododendron simsii* are suggested.	Compensate for trees and shrubs lost due to the Project.	Government Detailed Design Consultant/ Contractor	*Onsite where possible. Otherwise consider offsite locations*	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
S.12.A9	LV9-	Woodland Compensatory Planting –Specific Woodland compensatory	Reprovide areas of	Project	*In areas*	Prior to	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
MM8	DP3	planting is proposed for any areas of quality woodland that are unavoidably affected by the Project. The location and design of the woodland compensatory planting will principally be within habitats of lower value such as upland grassland. The proposed locations are identified, for example, on the foothills of Tai Shek Mo, and on the higher ground of Fung Kong Shan in KTN NDA; along Fanling Bypass; and a small area in the northern FLN NDA. The intention of the compensatory woodland will be to recreate areas of quality woodland, not necessarily to compensate for loss of trees on a like for like basis (See E18 & E27 also). Native tree species are suggested for planting in the appropriate locations, including *Ailanthus fordii, Bischofia javanica, Castanopsis fissa, Celtis sinensis, Cinnamomum burmannii, Cinnamomum camphora, Xanthoxlyum avicennaeHibiscus tiliaceus, Liquidambar formosana, Sapium discolor, Schefflera heptaphylla and Ilex rotunda. In addition some understory vegetation may be planted including shrubs such as Atalantia buxifolia, Diospyros vaccinioides, Gardenia jasminoides, Ixora chinensis, Ligustrum sinense, Litsea rotundifolia, Melastoma malabathricum, Melastoma dodecandrum, Rhodomyrtus tomentosa, Rhaphiolepis indica, and Rhododendron simsii.* The area allocated for compensatory woodland planting allows in part for the fact that it will take some time for the compensatory planting to achieve the landscape and ecological function and value of the area to be lost. In addition, it allows for	woodland to compensate for those areas of quality woodland lost.	Proponent/ Detailed Design Consultant/ Contractor/ Maintenance Authority	*identified in the EIA Landscape Mitigation Plans and as agreed with AFCD*	Construction, Construction Phase & Maintenance in Operation Phase	

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		the fact that not all of the areas identified for planting will prove to be plantable, by virtue of topography and ground conditions and, especially, because though the areas identified are largely grassland it is inevitable that these areas will already support some patches of trees and shrubs which would be inappropriate for further planting.					
S.12.A9 MM9	LV10-DP3	Vertical Greening – Planting of climbers to grow up vertical surfaces were appropriate (e.g. viaduct piers, noise barriers).	Soften hard surfaces and facilities	Government Detailed Design Consultant/ Contractor	*On appropriate structures*	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
S.12.A9 MM11	LV11-DP3	Screen Planting – Tall screen/buffer trees and shrubs should be planted. This measure may additionally form part of the compensatory planting.	To screen proposed structures such as roads and buildings. Improve compatibility with the surrounding environment and create a pleasant pedestrian environment	Government Detailed Design Consultant/ Contractor	*Along roads, around suitable built structures, or around VSRs to contain their view out to the NDA structures.*	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
S.12.A9	LV12-	Road Greening –For viaducts, soft landscaping should be provided to soften	To soften the hard,	Government	*On viaducts or*	Prior to	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
MM12	DP3	the hard, straight edges (for climbers used to cover the vertical, hard surfaces of the piers – see MM9 Vertical Greening) and shade tolerant plants should be planted, where light is sufficient, to improve aesthetic value of areas under viaducts. Both at grade planting and use of elevated planters should be considered for the soft landscaping of viaducts, taking into account the preference to minimize the overall viaduct bulk and integrate architectural forms and textural finishes which improve aesthetics. For at grade roads, planting should be considered along central dividers and on road islands e.g. in the middle of roundabouts. (Roadside planting i.e. at the road edge and not in the central divider or road island, is considered part of Screen Planting)	straight edges and provide greening along roads.	Detailed Design Consultant/ Contractor	*along roads.*	Construction, Construction Phase & Maintenance in Operation Phase	
S.12.A9 MM13 EIA Annex 13	LV13-DP3	Marsh/Wetland Compensation –The proposed Long Valley Nature Park (LVNP) will be designed and implemented to enhance onwetland areas within the LVNP. (See E4,E15 and E25 also) Also see LV16, LV17, and LV18 as wetland planting should be provided along the embankments and beds of modified/ reprovisioned watercourses.	Compensate for Marsh/ Wetland lost due to the Project.	Project Proponent/ Detailed Design Consultant/ Contractor/ Maintenance Authority	*Onsite where possible. Otherwise consider offsite locations*	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
S.12.A9 MM14.3	LV14-DP3	Enhancement Planting along Embankment - For channelized watercourses, if these are modified, the Drainage Services Department Practice Note No.1/2005 – Guidelines on Environmental Considerations for River Channel	Minimize the necessity of watercourse modification,	Government / Detailed Design	*Channelized watercourse, particularly the*	Prior to Construction, Construction	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		Design, should be considered and appropriate mitigation measures included ensuring the new watercourses match the existing as far as possible. Measures can include enhancement planting to upgrade the channels as appropriate, including consideration of wetland planting along embankments where appropriate; as well as consideration of the best materials for the channel lining (e.g. gabion). All measures must also ensure any necessary maintenance work can be carried out and that the channel meets all its requirements for water flow, etc. For example, a stretch of the Ma Wat River Channel in the south of FLN NDA will have to be diverted for the construction of the Fanling Bypass Eastern Section. This measure will be particularly relevant in this area.	protect watercourses where possible and enhance channelized watercourses	Consultant/ Contractor	*Ma Wat River Channel Diversion*	Phase & Maintenance in Operation Phase	
S.12.A9 MM15	LV15-DP3	Pond Replacement –Principles adopted in the design of the NDAs ensure that they incorporate ponds within the RODPs. All requirements for ponds stipulated in the planning documents for the formulation of the Preliminary Layout Plan (e.g. at Fung Kong Shan Park in E1-7 of KNT ND) should be adhered to.		Project Proponent/ Detailed Design Consultant/ Contractor/ Maintenance Authority	*E1-7 and C1-9 (LVNP) in KNT NDA and generally throughout NDA*	Prior to Construction, Construction Phase Maintenance in Operation Phase	N/A
Landscape and Visual (Construction)							
S.12.A9 MM16	LV16-DP3	Screen Hoarding –Screen hoarding shall be erected along areas of the construction works site boundary where the works site borders publically	To screen undesirable views	Contractor	*Throughout NDAs*	Construction Phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		accessible routes and/or is close to visually sensitive receivers (VSRs). It is proposed that the screening be compatible with the surrounding environment and where possible, nonreflective, recessive colours be used. Any works areas near the ecological sensitive areas should erect 2m high dull green site boundary fence. Details can refer to the ecological impact assessment (Chapter 13 of the EIA report).	of the works site.				
S.12.A9 MM17	LV17-DP3	Light Control – Construction day and night time lighting should be controlled to minimize glare impact to adjacent VSRs during the Construction phase. Street and night time lighting shall also be controlled to minimize glare impact to adjacent VSRs during the operation phase.	To minimize glare impact to adjacent VSRs	Government / Contractor	*Throughout NDAs*	Construction and Operation Phases	N/A
Ecology (Detailed Design, Construction and Operational Phases)							
S13.9	E3-DP3	Use opaque, non-transparent, non-reflective noise barriers. Unnecessary lighting should be avoided.	Minimize mortality impacts on birds.	Detailed Design Consultant/ Contractor Maintenance Authority.	Throughout.	Detailed design, Construction and Operation phases.	^
Ecology (Construction Phase)							
S.13.9	E4-DP3	Creation of proposed Long Valley Nature Park and creation and enhancement of wetland and woodland areas and buffer planting within LVNP.	Compensate for wetland loss arising from the project.	Project Proponent/ Contractor	Long Valley	Construction phase.	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
				(LVNP Detailed Habitat Creation & Management Plan).			
S.13.9	E5-DP3	Design and erection of 2m high solid dull green site barrier fence between active works areas and all areas/habitats of ecological importance on edge of development areas, including along any roads adjacent to or penetrating into areas/habitats of ecological importance.	Minimize dust,disturbance, mortality and other adverse ecological impacts on habitats, flora and fauna. Measures to minimize flightline impacts to birds,	Contractor.	Interface between areas/habitats of ecological importance (KTN areas B1-3, H1-1) and works areas.	Construction phase.	N/A
S13.9	E6-DP3	Compensatory native woodland planting.	Compensate for loss of plantation of ecological significance.	Project Proponent / Contractor	KTN areas E1-8 and G1-3.	Construction phase.	N/A
DP4- KTN NDA Road D1 to D5 (New Road)							
Landscape and Visual (Detailed Design, Prior to Construction, Construction and Operational Phases)							
S.12.A9	LV1-DP4	General Good Practice Measures - For areas unavoidably disturbed by the Project on a short term basis e.g. works areas, the general principle to		Detailed Design Consultant/	Throughout NDAs,	Prior to Construction, Construction & for all	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		try and restore these to their former state to suit future land use, should be adhered to. With regard to topsoil, where identified, it should be stripped, treated appropriately, and where suitable and practical stored for re-use in the construction of the soft landscape works such as roadside amenity strips, and open space sites.		Contractor		planting, this should be installed as soon as the areas become available, to achieve early establishment	
S.12.A9 MM1	LV2-DP4	Minimum Topographical Change –To minimize landscape and visual impacts, the footprint and elevation of such elements should be optimized to reduce topographical/ landform changes, as well as reduce land take and interference with natural terrain. Where there is a need to significantly cut into the existing landform, retaining walls should be considered as well as cut slopes, to minimize landform changes and land resumption, while also considering visual amenity. Earthworks and engineered slopes should be designed to be a visually interesting landform, compatible with the surrounding landscape and to mimic the natural contouring and terrain e.g. introduction and continuation of natural features such as spurs and ridges where appropriate, to support assimilation with the hillside setting.	Reduce topographical changes and minimize land resumption	Government / Detailed Design Consultant/ Contractor/	Throughout NDAs, particularly for reservoirs	Prior to Construction	N/A
S.12.A9 MM2	LV3-DP4	Detailed Design (Visual) –The footprint and massing of development components and the works area should also be kept to a practical minimum and the detailed design of development components for Construction phase should follow the Sustainable Building Design	Improve visual amenity of the new buildings, NDAs in general and integrate as best possible	Detailed Design Consultant/	Throughout NDAs	Prior to Construction	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		Guidelines. The form, textures, finishes and colours of the proposed development components should aim to be compatible with the existing surroundings. To improve visual amenity designs should be aesthetically pleasing and treatment of structures also improve visual amenity. For example, natural building materials such as stone and timber, should be considered for architectural features, and light earthy tone colours such as shades of green, shades of grey, shades of brown and off-white should also be considered to reduce the visibility of the development components, including all roadwork, buildings and noise barriers. In addition, the design of structures should consider green roofs were feasible, following stated guidelines. All Noise barriers, particularly noise barriers but also any barriers proposed for ecological impact mitigation, should be kept to a practical minimum, and be of such a designed as to integrate as well as possible into the surrounding visual context and be as low as practical to minimize blocking views. Noise barrier design, including vertical, cantilever or curved, and noise enclosures including semi-enclosure and full enclosure, at grade and/ or elevated, should follow the guidelines stated. Construction time frame should also be considered and designs seek to keep it to a practical minimum.	into the surrounding landscape				
S.12.A9	LV4-	Tree Protection & Preservation – Exiting trees to be retained within the	Protect and Preserve Trees	Government /	Onsite	Prior to Construction	^

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
MM4	DP4	Project Site should be carefully protected during construction. In particular OVTs will be preserved according to ETWB Technical Circular (Works) No. 29/2004. Detailed Tree Protection Specification shall be provided in the Contract Specification. Under this specification, the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in Contractor's works areas. A detailed tree survey will be carried out for the Tree Removal Application (TRA) process which will be carried out at the later detailed design stage of the Project. The detailed tree survey will propose which trees should be retained, transplanted or felled and will include details of tree protection measures for those trees to be retained.		Detailed Design Consultant/ Contractor		and Construction Phase	
S.12.A9 MM5	LV5-DP4	Tree Transplantation – Trees unavoidably affected by the Project works should be transplanted where practical. Trees should be transplanted straight to their final receptor site and not held in a temporary nursery as far as possible. A detailed Tree Transplanting Specification shall be provided in the Contract Specification, where applicable. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project programme. A detailed transplanting proposal will be submitted to relevant government departments for approval in accordance with ETWBTC	Transplant Trees where suitable for transplantation	Government / Detailed Design Consultant/ Contractor	Onsite possible. Consider locations where Otherwise offsite locations	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		2/2004 and 3/2006 and final locations of transplanted trees should be agreed prior to commencement of the work. For trees associated with highways e.g. roadside planting along highways, that are unavoidably affected and should be transplanted, HyD HQ/GN/13 „Interim Guidelines for Tree Transplanting Works under Highways Department's Vegetation Maintenance Ambit' should be referred to.					
S.12.A9 MM6	LV6-DP4	Slope Landscaping – Site formation should be reduced as far as possible. Seeding of modified slopes should be done as soon as grading works are completed to prevent erosion and subsequent loss of landscape resources and character. Woodland tree seedlings and/ or shrubs should be planted where slope gradient and site conditions allow. In addition, landscape planting should be provided for the retaining structures associated with modified slopes where conditions allow. All slope landscaping works should comply with GEO Publication No. 1/2011-Technical Guidelines on Landscape Treatment for Slopes.	To avoid substantial slope cutting and fill slopes. To prevent erosion and subsequent loss of landscape resources and character. To ensure man-made slopes are as visually amenable as possible.	Government Detailed Design Consultant/ Contractor	Onsite	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
S.12.A9 MM7	LV7-DP4	Compensatory Planting – Compensatory tree planting for felled trees shall be provided to the satisfaction of relevant Government departments. Required numbers and locations of compensatory trees shall be determined and agreed separately with Government during the Tree Removal Application process under ETWBTC 3/2006. Compensatory planting is proposed at the potential open areas such as	Compensate for trees and shrubs lost due to the Project.	Government Detailed Design Consultant/ Contractor	Onsite where possible. Otherwise consider offsite locations	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		open spaces, amenity areas, open areas of the streetscapes, as well as the open areas within development lots. Compensatory planting for shrubs should be considered in suitable locations. Native species such as Melastoma malabathricum, Diospyros vaccinioides, Gardenia jasminoides, Ixora chinensis, Ligustrum sinense, Litsea rotundifolia, Melastoma dodecandrum, Atalantia buxifolia, Rhodomyrtus tomentosa, Rhaphiolepis indica, and Rhododendron simsii are suggested..					
S.12.A9 MM8	LV8-DP4	Woodland Compensatory Planting –Specific Woodland compensatory planting is proposed for any areas of quality woodland that are unavoidably affected by the Project. The location and design of the woodland compensatory planting will principally be within habitats of lower value such as upland grassland. The proposed locations are identified, for example, on the foothills of Tai Shek Mo, and on the higher ground of Fung Kong Shan in KTN NDA; along Fanling Bypass; and a small area in the northern FLN NDA. The intention of the compensatory woodland will be to recreate areas of quality woodland, not necessarily to compensate for loss of trees on a like for like basis (See E18 & E27 also). Native tree species are suggested for planting in the appropriate locations, including Ailanthus fordii, Bischofia javanica, Castanopsis fissa, Celtis sinensis, Cinnamomum burmannii, Cinnamomum camphora,	Reprovide areas of woodland to compensate for those areas of quality woodland lost.	Project Proponent/ Detailed Design Consultant/ Contractor/ Maintenance Authority	In areas identified in the EIA Landscape Mitigation Plans and as agreed with AFCD	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		Xanthoxlyum avicennaeHibiscus tiliaceus, Liquidambar formosana, Sapium discolor, Schefflera heptaphylla and Ilex rotunda. In addition some understory vegetation may be planted including shrubs such as Atalantia buxifolia, Diospyros vaccinioides, Gardenia jasminoides, Ixora chinensis, Ligustrum sinense, Litsea rotundifolia, Melastoma malabathricum, Melastoma dodecandrum, Rhodomyrtus tomentosa, Rhaphiolepis indica, and Rhododendron simsii. The area allocated for compensatory woodland planting allows in part for the fact that it will take some time for the compensatory planting to achieve the landscape and ecological function and value of the area to be lost. In addition, it allows for the fact that not all of the areas identified for planting will prove to be plantable, by virtue of topography and ground conditions and, especially, because though the areas identified are largely grassland it is inevitable that these areas will already support some patches of trees and shrubs which would be inappropriate for further planting.					
S.12.A9 MM9	LV9-DP4	Vertical Greening – Planting of climbers to grow up vertical surfaces were appropriate (e.g. viaduct piers, noise barriers).	Soften hard surfaces and facilities	Government / Detailed Design Consultant/ Contractor	On appropriate structures	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
S.12.A9 MM11	LV10-DP4	Screen Planting – Tall screen/buffer trees and shrubs should be planted. This measure may additionally form part of the compensatory planting.	To screen proposed structures such as roads	Government / Detailed Design	Along roads, around suitable	Prior to Construction, Construction Phase &	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
			and buildings. Improve compatibility with the surrounding environment and create a pleasant pedestrian environment	Consultant/ Contractor	built structures , or around VSRs to contain their view out to the NDA structures.	Maintenance in Operation Phase	
S.12.A9 MM12	LV11-DP4	Road Greening –For viaducts, soft landscaping should be provided to soften the hard, straight edges (for climbers used to cover the vertical, hard surfaces of the piers – see MM9 Vertical Greening) and shade tolerant plants should be planted, where light is sufficient, to improve aesthetic value of areas under viaducts. Both at grade planting and use of elevated planters should be considered for the soft landscaping of viaducts, taking into account the preference to minimize the overall viaduct bulk and integrate architectural forms and textural finishes which improve aesthetics. For at grade roads, planting should be considered along central dividers and on road islands e.g. in the middle of roundabouts. (Roadside planting i.e. at the road edge and not in the central divider or road island, is considered part of Screen Planting)	To soften the hard, straight edges and provide greening along roads.	Government Detailed Design Consultant/ Contractor	On viaducts or along roads.	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
S.12.A9 MM13 & EIA Annex 13	LV12-DP4	Marsh/Wetland Compensation –The proposed Long Valley Nature Park (LVNP) will be designed and implemented to enhance on-wetland areas within the LVNP. (See E4,E15 and E25 also) Also see LV16, LV17, and LV18 as wetland planting should be provided	Compensate for Marsh/ Wetland lost due to the Project.	Project Proponent/ Detailed Design Consultant/	Onsite where possible. Otherwise consider offsite	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		along the embankments and beds of modified/ re-provisioned watercourses.		Contractor/ Maintenance Authority	locations		
S.12.A9 MM15	LV13-DP4	Pond Replacement –Principles adopted in the design of the NDAs ensure that they incorporate ponds within the RODPs. All requirements for ponds stipulated in the planning documents for the formulation of the Preliminary Layout Plan (e.g. at Fung Kong Shan Park in E1-7 of KNT ND) should be adhered to.	Reprovision for ponds lost due to the Project.	Project Proponent/ Detailed Design Consultant/ Contractor/ Maintenance Authority	E1-7 and C1-9 (LVNP) in KNT NDA and generally throughout NDA	Prior to Construction, Construction Phase Maintenance in Operation Phase	N/A
Landscape and Visual (Construction)							
S.12.A9 MM16	LV14-DP4	Screen Hoarding –Screen hoarding shall be erected along areas of the construction works site boundary where the works site borders publically accessible routes and/or is close to visually sensitive receivers (VSRs). It is proposed that the screening be compatible with the surrounding environment and where possible, non-reflective, recessive colours be used. Any works areas near the ecological sensitive areas should erect 2m high dull green site boundary fence. Details can refer to the ecological impact assessment (Chapter 13 of the EIA report).	To screen undesirable views of the works site.	Contractor			N/A
S.12.A9 MM17	LV15-DP4	Light Control – Construction day and night time lighting should be controlled to minimize glare impact to adjacent VSRs during the	To minimize glare impact to adjacent VSRs	Government / Contractor	Throughout NDAs	Construction and Operation Phases	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		Construction phase. Street and night time lighting shall also be controlled to minimize glare impact to adjacent VSRs during the operation phase.					
Ecology (Prior to Detailed Design Prior to Construction Phase)							
S. 13.9	E1-DP4	Egretry Habitat Creation & Management Plan (EHCMP) and Woodland Planting and Management Plan (WPMP)	Compensate for loss of Man Kam To Road egretry. Compensate for loss of secondary woodland and hillside plantation of ecological significance.	Project Proponent/ Detailed Design Consultant (EHCMP and WPMP).	FLN area A1-7 (egretry compensation). KTN areas E1-8 and G1-3 (woodland compensation).	Detailed design phase.	N/A
Ecology (Detailed Design, Construction and Operational Phases)							
S13.9	E2-DP4	Use opaque, non-transparent, non-reflective noise barriers. Unnecessary lighting should be avoided.	Minimize mortality impacts on birds.	Detailed Design Consultant/ Contractor Maintenance Authority.	Throughout.	Throughout.	N/A
Ecology (Construction Phase)							
S.13.9	E3-DP4	Design and erection of 2m high solid dull green site barrier fence between active works areas and all areas/habitats of ecological importance.	Minimize dust, disturbance, mortality and other adverse ecological impacts on habitats, flora	Contractor.	Interface between areas/habitats of ecological importance (KTN	Construction phase.	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
			and fauna.		areas B1-3, E1-8, G1-3 and H1-1) and works areas		
S13.9	E4-DP4	Compensatory native woodland planting.	Compensate for loss of plantation of ecological significance.	Project Proponent / Contractor	KTN areas E1-8 and G1-3.	Construction phase.	N/A
S13.8	E5-DP4	Maintenance of compensatory native woodland planting.	Compensate for loss of plantation of ecological significance.	Maintenance Authority.	KTN areas E1-8 and G1-3.	Operation phase	N/A
Cultural Heritage (Pre-construction Phase)							
S11.6.1	CH1-DP4	Undertaking Survey-cum-Rescue Excavation A Survey-cum-Rescue Excavation should be conducted after land resumption and before the commencement of construction works to define the precise archaeological deposits extent and to preserve the archaeological resources by record. The excavation should be conducted by a professional archaeologist and prior to fieldwork commencement, the archaeologist should obtain a Licence to Excavate and Search for Antiquities from the Authority under the AM Ordinance.	To define the precise archaeological deposits extent and to preserve the archaeological resources as far as possible.	Project Proponent / Contractor/ Qualified Archaeologist	In KTN NDA, for Site 1	After land resumption but before Construction commencement of the zones	N/A
S11.6.1	CH2-DP4	Undertaking Further Archaeological Survey to Cover the Outstanding Areas Further archaeological surveys to cover the outstanding areas of the not-yet-surveyed-area with medium archaeological potential located with	To confirm and verify the findings of the EIA	Project Proponent/ Contractor/ Qualified	In the not-yet-surveyed- areas with medium archaeological	After land resumption but before construction	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		areas with proposed development as presented in **Figure 11.9** should be implemented after land resumption to confirm and verify the findings of the EIA. The survey should be conducted by a professional archaeologist and prior to fieldwork commencement, the archaeologist should obtain a Licence to Excavate and Search for Antiquities from the Authority under the AM Ordinance. It should be noted that the scope of further archaeological survey is based on the current proposed alignment. Any additional works areas which have not been covered by the current archaeological impact assessment should be covered as soon as possible. Subject to the findings of the archaeological survey to be conducted after land resumption, additional mitigation measures would be designed and implemented before the commencement of construction works to mitigate the adverse impact.		Archaeologist	potential located within the work extent of DP4		
S11.6.1	CH3-DP4	Undertaking Induction Training Induction training should be provided to the construction Contractor before the commencement of the excavation works in Spot E. An induction will be conducted as part of the environmental health and safety induction programme to all site staff before they are deployed on site. The induction will include an introduction on the historical development of the Site, the possible archaeological remains that may be encountered during ground excavation works as well as the reporting procedures in case suspected archaeological remains are identified. A set	To preserve the archaeological resources as far as possible	Project Proponent/ Contractor/ Qualified Archaeologist	Spot E	Before the commencement of the excavation works and before site staff are deployed on site	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		of the presentation material (in the form of power point presentation) with content details will be prepared by an archaeologist and submitted to AMO for reference and record purpose. The first induction briefing will be video recorded and it will be used as induction briefing material for new site staff.					
S11.6.2	CH4-DP4	Conducting Photographic and Cartographic Records Prior to Removal/Relocation of Impacted Built Heritages Prior to removal/relocation of the directly impacted historical buildings and cultural/historical landscape features, photographic and cartographic records should be conducted to preserve them by record. Liaison with and obtaining agreement from the descendants of these features will be carried out by the Project Proponent.	To preserve the directly impacted sites by record prior to their removal / relocation	Project Proponent/ Contractor	Entrance Gate of HKT03, KT16, KT17 and KT18	Prior to Removal / Relocation of features before commencement of construction works	N/A
S11.6.2	CH5-DP4	Undertaking baseline condition survey and baseline vibration impact assessment In case any potential vibration impact on any nearby built heritage features are identified during the pre-construction stage of the Project, prior to commencement of construction works, a baseline condition survey and baseline vibration impact assessment should be conducted by a qualified building surveyor or a qualified structural engineer to define the vibration limit (a vibration limit at 15mm/s could be adopted for historic buildings) and to evaluate if construction vibration monitoring and structural strengthening measures are required during construction	To minimize the vibration impacts during preconstruction stage on any identified potential vibration impacted built heritage features	Project Proponent/ Contractor	HKT03 (Main Building) and G308	Preconstruction stage before commencement of construction works	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		phase so as to ensure the construction performance meets with the vibration standard stated in the EIA report.					
S11.6.2	CH6-DP4	Relocation of Built Heritages Relocation of built heritages to a reasonable location nearby may be required.	To preserve the directly impacted sites by relocation	Project Proponent/ Contractor	Entrance Gate of HKT03	After the photographic and cartographic records and before commencement of construction works	N/A
Cultural Heritage (Construction Phase)							
S11.6.2	CH7-DP4	Conducting Construction Vibration Monitoring and Structural Strengthening Measures Construction vibration monitoring and structural strengthening measures should be conducted during Construction phase based on the assessment result of baseline condition survey and baseline vibration impact assessment, so as to ensure the construction performance meets with the vibration standard stated in the EIA report.	To minimize the potential impacts during Construction phase on any identified potential vibration impacted built heritage features	Contractor	Identified potential vibration impacted built heritage features	Construction phase, with details specified in baseline condition survey and baseline vibration impact assessment,	N/A
DP5- New sewage pumping stations (SPSs) in KTN NDA							
Landscape and Visual (Detailed Design, Prior to Construction, Construction and Operational Phases)							
S.12.B9	S.12.B9	General Good Practice Measures - For areas unavoidably disturbed by the Project on a short term basis e.g. works areas, the general principle to try and restore these to their former state to suit future land use, should be adhered to. With regard to topsoil, where identified, it should be stripped, treated		Detailed Design Consultant/ Contractor/	Throughout NDAs,	Prior to Construction, Construction & for all planting,	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		appropriately, and where suitable and practical stored for re-use in the construction of the soft landscape works such as roadside amenity strips, and open space sites.				this should be installed as soon as the areas become available, to achieve early establishment	
S.12.B9 MM1	LV2-DP5	Minimum Topographical Change –To minimize landscape and visual impacts, the footprint and elevation of such elements should be optimized to reduce topographical/ landform changes, as well as reduce land take and interference with natural terrain. Where there is a need to significantly cut into the existing landform, retaining walls should be considered as well as cut slopes, to minimize landform changes and land resumption, while also considering visual amenity. Earthworks and engineered slopes should be designed to be a visually interesting landform, compatible with the surrounding landscape and to mimic the natural contouring and terrain e.g. introduction and continuation of natural features such as spurs and ridges where appropriate, to support assimilation with the hillside setting.	Reduce topographical changes and minimize land resumption	Government / Detailed Design Consultant/ Contractor/	Throughout NDAs, particularly for reservoirs	Prior to Construction	N/A
S.12.B9 MM2	LV3-DP5	Detailed Design (Visual) –The footprint and massing of development components and the works area should also be kept to a practical minimum and the detailed design of development components for Construction phase should follow the Sustainable Building Design Guidelines. The form,	Improve visual amenity of the new buildings, NDAs in	Detailed Design Consultant/	Throughout NDAs	Throughout NDAs	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		textures, finishes and colours of the proposed development components should aim to be compatible with the existing surroundings. To improve visual amenity designs should be aesthetically pleasing and treatment of structures also improve visual amenity. For example, natural building materials such as stone and timber, should be considered for architectural features, and light earthy tone colours such as shades of green, shades of grey, shades of brown and off-white should also be considered to reduce the visibility of the development components, including all roadwork, buildings and noise barriers. In addition, the design of structures should consider green roofs were feasible, following stated guidelines. All Noise barriers, particularly noise barriers but also any barriers proposed for ecological impact mitigation, should be kept to a practical minimum, and be of such a designed as to integrate as well as possible into the surrounding visual context and be as low as practical to minimize blocking views. Noise barrier design, including vertical, cantilever or curved, and noise enclosures including semi-enclosure and full enclosure, at grade and/ or elevated, should follow the guidelines stated Construction time frame should also be considered.	general and integrate as best possible into the surrounding landscape				
S.12.B9 MM4	LV4-DP5	Tree Protection & Preservation – Exiting trees to be retained within the Project Site should be carefully protected during construction. In particular OVTs will be preserved according to ETWB Technical Circular	Protect and Preserve Trees	Government Detailed Design	Onsite	Prior to Construction and	#

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		(Works) No. 29/2004. Detailed Tree Protection Specification shall be provided in the Contract Specification. Under this specification, the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in Contractor‟s works areas. A detailed tree survey will be carried out for the Tree Removal Application (TRA) process which will be carried out at the later detailed design stage of the Project. The detailed tree survey will propose which trees should be retained, transplanted or felled and will include details of tree protection measures for those trees to be retained.		Consultant/ Contractor		Construction Phase	
S.12.B9 MM5	LV5-DP5	Tree Transplantation – Trees unavoidably affected by the Project works should be transplanted where practical. Trees should be transplanted straight to their final receptor site and not held in a temporary nursery as far as possible. A detailed Tree Transplanting Specification shall be provided in the Contract Specification, where applicable. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project programme. A detailed transplanting proposal will be submitted to relevant government departments for approval in accordance with ETWBTC 2/2004 and 3/2006 and final locations of transplanted trees should be agreed prior to commencement of the work.	Transplant Trees where suitable for transplantation	Government Detailed Design Consultant/ Contractor	Onsite where possible. Otherwise consider offsite location.	Prior to Construction,, Construction Phase & Maintenance in Operation Phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		For trees associated with highways e.g. roadside planting along highways, that are unavoidably affected and should be transplanted, HyD HQ/GN/13 „Interim Guidelines for Tree Transplanting Works under Highways Department's Vegetation Maintenance Ambit" should be referred to.					
S.12.B9 MM6	LV6-DP5	Slope Landscaping – Site formation should be reduced as far as possible. Seeding of modified slopes should be done as soon as grading works are completed to prevent erosion and subsequent loss of landscape resources and character. Woodland tree seedlings and/ or shrubs should be planted where slope gradient and site conditions allow. In addition, landscape planting should be provided for the retaining structures associated with modified slopes where conditions allow. All slope landscaping works should comply with GEO Publication No. 1/2011-Technical Guidelines on Landscape Treatment for Slopes.	To avoid substantial slope cutting and fill slopes. To prevent erosion and subsequent loss of landscape resources and character. To ensure man-made slopes are as visually amenable as possible.	Government/ Detailed Design Consultant/	Onsite	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
S.12.B9 MM7	LV7-DP5	Compensatory Planting – Compensatory tree planting for felled trees shall be provided to the satisfaction of relevant Government departments. Required numbers and locations of compensatory trees shall be determined and agreed separately with Government during the Tree Removal Application process under ETWBTC 3/2006. Compensatory planting is proposed at the potential open areas such as open	Compensate for trees and shrubs lost due to the Project.	Government/ Detailed Design Consultant/ Contractor	Onsite where possible. Otherwise consider offsite locations	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		spaces, amenity areas, open areas of the streetscapes, as well as the open areas within development lots. Compensatory planting for shrubs should be considered in suitable locations. Native species such as *Melastoma malabathricum, Diospyros vaccinioides, Gardenia jasminoides, Ixora chinensis, Ligustrum sinense, Litsea rotundifolia, Melastoma dodecandrum, Atalantia buxifolia, Rhodomyrtus tomentosa, Rhaphiolepis indica,* and *Rhododendron simsii* are suggested.					
S.12.B9 MM8	LV8-DP5	Woodland Compensatory Planting –Specific Woodland compensatory planting is proposed for any areas of quality woodland that are unavoidably affected by the Project. The location and design of the woodland compensatory planting will principally be within habitats of lower value such as upland grassland. The proposed locations are identified, for example, on the foothills of Tai Shek Mo, and on the higher ground of Fung Kong Shan in KTN NDA; along Fanling Bypass; and a small area in the northern FLN NDA. The intention of the compensatory woodland will be to recreate areas of quality woodland, not necessarily to compensate for loss of trees on a like for like basis (See E18 & E27 also). Native tree species are suggested for planting in the appropriate locations, including *Ailanthus fordii, Bischofia javanica, Castanopsis fissa, Celtis sinensis, Cinnamomum burmannii, Cinnamomum camphora, Xanthoxlyum*	Reprovide areas of woodland to compensate for those areas of quality woodland lost.	Project Proponent/ Detailed Design Consultant/ Contractor/ Maintenance Authority	In areas identified in the EIA Landscape Mitigation Plans and as agreed with AFCD	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		avicennaeHibiscus tiliaceus, Liquidambar formosana, Sapium discolor, Schefflera heptaphylla and Ilex rotunda. In addition some understory vegetation may be planted including shrubs such as Atalantia buxifolia, Diospyros vaccinioides, Gardenia jasminoides, Ixora chinensis, Ligustrum sinense, Litsea rotundifolia, Melastoma malabathricum, Melastoma dodecandrum, Rhodomyrtus omentosa, Rhaphiolepis indica, and Rhododendron simsii. The area allocated for compensatory woodland planting allows in part for the fact that it will take some time for the compensatory planting to achieve the landscape and ecological function and value of the area to be lost. In addition, it allows for the fact that not all of the areas identified for planting will prove to be plantable, by virtue of topography and ground conditions and, especially, because though the areas identified are largely grassland it is inevitable that these areas will already support some patches of trees and shrubs which would be inappropriate for further planting.					
S.12.B9 MM9	LV9-DP5	Vertical Greening – Planting of climbers to grow up vertical surfaces were appropriate (e.g. viaduct piers, noise barriers).	Soften hard surfaces and facilities	Government / Detailed Design Consultant/ Contractor	*On appropriate structures*	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
S.12.B9 MM10	LV10-DP5	Green Roof – Roof greening where appropriate should be established on proposed buildings as per the guidelines stated. These guidelines provide further details including information regarding structural loading, design, maintenance, etc. considerations as well as providing information on what types of plants might be suitable.	Reduce exposure to untreated concrete surfaces and particularly mitigate visual impact to VSRs at high levels. Provide greening.	Government / Detailed Design Consultant/ Contractor	*On appropriate buildings*	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
S.12.B9 MM11	LV11-DP5	Screen Planting – Tall screen/buffer trees and shrubs should be implanted. This measure may additionally form part of the compensatory planting.	To screen proposed structures such as roads and buildings. Improve compatibility with the surrounding environment and create a pleasant pedestrian environment	Government / Detailed Design Consultant/ Contractor	*Along roads, around suitable built structures, or around VSRs to contain their view out to the NDA structures.*	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
S.12.B9 MM14.3	LV12-DP5	Enhancement Planting along Embankment - For channelized watercourses, if these are modified, the Drainage Services Department Practice Note No.1/2005 – Guidelines on Environmental Considerations for River Channel Design, should be considered and appropriate mitigation measures included ensuring the new watercourses match the existing as far as possible. Measures can include enhancement planting to upgrade the channels as appropriate, including consideration of wetland planting along embankments where appropriate; as well as consideration of the best materials for the	Minimize the necessity of watercourse modification, protect watercourses where possible and enhance channelized watercourses	Government / Detailed Design Consultant/ Contractor	*Channelized watercourse, particularly the Ma Wat River Channel Diversion*	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		channel lining (e.g. gabion). All measures must also ensure any necessary maintenance work can be carried out and that the channel meets all its requirements for water flow, etc. For example, a stretch of the Ma Wat River Channel in the south of FLN NDA will have to be diverted for the construction of the Fanling Bypass Eastern Section. This measure will be particularly relevant in this area.					
Landscape and Visual (Construction)							
S.12.B9 MM16	LV13-DP5	Screen Hoarding –Screen hoarding shall be erected along areas of the construction works site boundary where the works site borders publically accessible routes and/or is close to visually sensitive receivers (VSRs). It is proposed that the screening be compatible with the surrounding environment and where possible, nonreflective, recessive colours be used. Any works areas near the ecological sensitive areas should erect 2m high dull green site boundary fence. Details can refer to the ecological impact assessment (Chapter 13 of the EIA report).	To screen undesirable views of the works site.	Contractor	*Throughout NDAs*	Construction Phase	N/A
S.12.B9 MM17	LV14-DP5	Light Control – Construction day and night time lighting should be controlled to minimize glare impact to adjacent VSRs during the Construction phase. Street and night time lighting shall also be controlled to minimize glare impact to adjacent VSRs during the operation phase.	To minimize glare impact to adjacent VSRs	Government / Contractor	*Throughout NDAs*	Construction and Operation Phases	^
Ecology (Construction Phase)							
S.13.9	E1-DP5	Design and erection of 2m high solid dull green site barrier fence	Minimize dust,	Contractor.	*Interface*	Construction phase.	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		between active works areas and all areas/habitats of ecological importance.	disturbance, mortality and other adverse ecological impacts on habitats, flora and fauna.		*between areas/habitats of ecological importance and works areas (all sides of KTN area F1-2).*		
DP7-Utilization of Treated Sewage Effluent (TSE) from Shek Wu Hui Sewage Treatment Works (SWHSTW)							
Landscape and Visual (Construction Phase and Operational Phase)							
S.12.9 MM4	LV1-DP7	Tree Protection & Preservation – Exiting trees to be retained within the Project Site should be carefully protected during construction. In particular OVTs will be preserved according to ETWB Technical Circular (Works) No. 29/2004. Detailed Tree Protection Specification shall be provided in the Contract Specification. Under this specification, the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in Contractor's works areas. A detailed tree survey will be carried out for the Tree Removal Application (TRA) process which will be carried out at the later detailed design stage of the Project. The detailed tree survey will propose which trees should be retained, transplanted or felled and will include details of	Protect and Preserve Trees	Government / Detailed Design Consultant/ Contractor	*Onsite*	Prior to Construction and Construction Phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		tree protection measures for those trees to be retained.					
S.12.9 MM9	LV2-DP7	Vertical Greening – Planting of climbers to grow up vertical surfaces were appropriate (e.g. building edges, piers).	Soften hard surfaces and facilities	Government / Detailed Design Consultant/ Contractor	*On appropriate structures*	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
S.12.9 MM10	LV3-DP7	Green Roof – Roof greening where appropriate should be established on proposed buildings as per the guidelines stated. These guidelines provide further details including information regarding structural loading, design, maintenance, etc. considerations as well as providing information on what types of plants might be suitable.	Reduce exposure to untreated concrete surfaces and particularly mitigate visual impact to VSRs at high levels. Provide greening.	Government / Detailed Design Consultant/ Contractor	*On appropriate buildings*	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
DP10- Fanling Bypass Eastern Section (New Road)							
Landscape and Visual (Detailed Design, Prior to Construction, Construction and Operational Phases)							
S.12.D9	LV1-DP10	General Good Practice Measures - For areas unavoidably disturbed by the Project on a short term basis e.g. works areas, the general principle to try and restore these to their former state to suit future land use, should be adhered to. With regard to topsoil, where identified, it should be stripped, treated		Detailed Design Consultant/ Contractor	*Throughout NDAs,*	Prior to Construction, Construction & for all planting, this should be installed as soon as the areas become	^

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		appropriately, and where suitable and practical stored for re-use in the construction of the soft landscape works such as roadside amenity strips, and open space sites.				available, to achieve early establishment	
S.12.D9 MM1	LV2-DP10	Minimum Topographical Change –To minimize landscape and visual impacts, the footprint and elevation of such elements should be optimized to reduce topographical/ landform changes, as well as reduce land take and interference with natural terrain. Where there is a need to significantly cut into the existing landform, retaining walls should be considered as well as cut slopes, to minimize landform changes and land resumption, while also considering visual amenity. Earthworks and engineered slopes should be designed to be a visually interesting landform, compatible with the surrounding landscape and to mimic the natural contouring and terrain e.g. introduction and continuation of natural features such as spurs and ridges where appropriate, to support assimilation with the hillside setting.	Reduce topographical changes and minimize land resumption	Government/ Detailed Design Consultant/ Contractor	*Throughout NDAs, particularly for reservoirs*	Prior to Construction	N/A
S.12.D9 MM4	LV3-DP10	Tree Protection & Preservation – Exiting trees to be retained within the Project Site should be carefully protected during construction. In particular OVTs will be preserved according to ETWB Technical Circular (Works) No. 29/2004. Detailed Tree Protection Specification shall be provided in the Contract Specification. Under this specification, the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any	Protect and Preserve Trees	Government/ Detailed Design Consultant/ Contractor	*Onsite*	Prior to Construction and Construction Phase	^

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		works adjacent to all retained trees, including trees in Contractor's works areas. A detailed tree survey will be carried out for the Tree Removal Application (TRA) process which will be carried out at the later detailed design stage of the Project. The detailed tree survey will propose which trees should be retained, transplanted or felled and will include details of tree protection measures for those trees to be retained.					
S.12.D9 MM5	LV4-DP10	Tree Transplantation – Trees unavoidably affected by the Project works should be transplanted where practical. Trees should be transplanted straight to their final receptor site and not held in a temporary nursery as far as possible. A detailed Tree Transplanting Specification shall be provided in the Contract Specification, where applicable. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project programme. A detailed transplanting proposal will be submitted to relevant government departments for approval in accordance with ETWBTC 2/2004 and 3/2006 and final locations of transplanted trees should be agreed prior to commencement of the work. For trees associated with highways e.g. roadside planting along highways, that are unavoidably affected and should be transplanted, HyD HQ/GN/13 'Interim Guidelines for Tree Transplanting Works under Highways Department's Vegetation Maintenance Ambit' should be	Transplant Trees where suitable for transplantation	Government/ Detailed Design Consultant/ Contractor	*Onsite where possible. Otherwise consider offsite locations*	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		referred to.					
S.12.D9 MM6	LV5-DP10	Slope Landscaping – Site formation should be reduced as far as possible. Seeding of modified slopes should be done as soon as grading works are completed to prevent erosion and subsequent loss of landscape resources and character. Woodland tree seedlings and/ or shrubs should be planted where slope gradient and site conditions allow. In addition, landscape planting should be provided for the retaining structures associated with modified slopes where conditions allow. All slope landscaping works should comply with GEO Publication No. 1/2011-Technical Guidelines on Landscape Treatment for Slopes.	To avoid substantial slope cutting and fill slopes. To prevent erosion and subsequent loss of landscape resources and character. To ensure man-made slopes are as visually amenable as possible.	Government/ Detailed Design Consultant/ Contractor	*Onsite*	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
S.12.D9 MM7	LV6-DP10	Compensatory Planting – Compensatory tree planting for felled trees shall be provided to the satisfaction of relevant Government departments. Required numbers and locations of compensatory trees shall be determined and agreed separately with Government during the Tree Removal Application process under ETWBTC 3/2006. Compensatory planting is proposed at the potential open areas such as open spaces, amenity areas, open areas of the streetscapes, as well as the open areas within development lots. Compensatory planting for shrubs should be considered in suitable locations. Native species such as *Melastoma malabathricum, Diospyros vaccinioides, Gardenia jasminoides, Ixora chinensis, Ligustrum sinense, Litsea rotundifolia, Melastoma*	Compensate for trees and shrubs lost due to the Project.	Government/ Detailed Design Consultant/ Contractor	*Onsite where possible. Otherwise consider offsite locations*	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		dodecandrum, Atalantia buxifolia, Rhodomyrtus tomentosa, Rhaphiolepis indica, and Rhododendron simsii are suggested.					
S.12.D9 MM8	LV7-DP10	Woodland Compensatory Planting –Specific Woodland compensatory planting is proposed for any areas of quality woodland that are unavoidably affected by the Project. The location and design of the woodland compensatory planting will principally be within habitats of lower value such as upland grassland. The proposed locations are identified, for example, on the foothills of Tai Shek Mo, and on the higher ground of Fung Kong Shan in KTN NDA; along Fanling Bypass; and a small area in the northern FLN NDA. The intention of the compensatory woodland will be to recreate areas of quality woodland, not necessarily to compensate for loss of trees on a like for like basis (See E18 & E27 also). Native tree species are suggested for planting in the appropriate locations, including *Ailanthus fordii, Bischofia javanica, Castanopsis fissa, Celtis sinensis, Cinnamomum burmannii, Cinnamomum camphora, Xanthoxlyum avicennaeHibiscus tiliaceus, Liquidambar formosana, Sapium discolor, Schefflera heptaphylla and Ilex rotunda*. In addition some understory vegetation may be planted including shrubs such as *Atalantia buxifolia, Diospyros vaccinioides, Gardenia jasminoides, Ixora chinensis, Ligustrum sinense, Litsea rotundifolia, Melastoma malabathricum, Melastoma dodecandrum, Rhodomyrtus tomentosa,*	Reprovide areas of woodland to compensate for those areas of quality woodland lost.	Project Proponent/ Detailed Design Consultant/ Contractor/ Maintenance Authority	*In areas identified in the EIA Landscape Mitigation Plans and as agreed with AFCD*	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		Rhaphiolepis indica, and Rhododendron simsii. *The area allocated for compensatory woodland planting allows in part for the fact that it will take some time for the compensatory planting to achieve the landscape and ecological function and value of the area to be lost. In addition, it allows for the fact that not all of the areas identified for planting will prove to be plantable, by virtue of topography and ground conditions and, especially, because though the areas identified are largely grassland it is inevitable that these areas will already support some patches of trees and shrubs which would be inappropriate for further planting.*					
S.12.D9 MM9	LV8-DP10	Vertical Greening – Planting of climbers to grow up vertical surfaces were appropriate (e.g. viaduct piers, noise barriers).	Soften hard surfaces and facilities	Government/ Detailed Design Consultant/ Contractor	*On appropriate structures*	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
S.12.D9 MM11	LV9-DP10	Screen Planting – Tall screen/buffer trees and shrubs should be planted. This measure may additionally form part of the compensatory planting.	To screen proposed structures such as roads and buildings. Improve compatibility with the surrounding environment and create a pleasant pedestrian environment	Government/ Detailed Design Consultant/ Contractor	*Along roads, around suitable built structures, or around VSRs to contain their view out to the NDA structures.*	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
S.12.D9M	LV10-	Road Greening –For viaducts, soft landscaping should be provided to	To soften the hard, straight	Government/	*On viaducts or*	Prior to Construction,	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
M12	DP10	soften the hard, straight edges (for climbers used to cover the vertical, hard surfaces of the piers – see MM9 Vertical Greening) and shade tolerant plants should be planted, where light is sufficient, to improve aesthetic value of areas under viaducts. Both at grade planting and use of elevated planters should be considered for the soft landscaping of viaducts, taking into account the preference to minimize the overall viaduct bulk and integrate architectural forms and textural finishes which improve aesthetics. For at grade roads, planting should be considered along central dividers and on road islands e.g. in the middle of roundabouts. (Roadside planting i.e. at the road edge and not in the central divider or road island, is considered part of Screen Planting)	edges and provide greening along roads.	Detailed Design Consultant/ Contractor	*along roads.*	Construction Phase & Maintenance in Operation Phase	
S.12.D9 MM14.3	LV11-DP10	Enhancement Planting along Embankment - For channelized watercourses, if these are modified, the Drainage Services Department Practice Note No.1/2005 – Guidelines on Environmental Considerations for River Channel Design, should be considered and appropriate mitigation measures included ensuring the new watercourses match the existing as far as possible. Measures can include enhancement planting to upgrade the channels as appropriate, including consideration of wetland planting along embankments where appropriate; as well as consideration of the best materials for the channel lining (e.g. gabion). All measures must also ensure any necessary maintenance work can be carried out and	Minimize the necessity of watercourse modification, protect watercourses where possible and enhance channelized watercourses	Government/ Detailed Design Consultant/ Contractor	*Channelized watercourse, particularly the Ma Wat River Channel Diversion*	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		that the channel meets all its requirements for water flow, etc. For example, a stretch of the Ma Wat River Channel in the south of FLN NDA will have to be diverted for the construction of the Fanling Bypass Eastern Section. This measure will be particularly relevant in this area.					
Landscape and Visual (Construction)							
S.12.D9 MM16	LV12-DP10	Screen Hoarding –Screen hoarding shall be erected along areas of the construction works site boundary where the works site borders publically accessible routes and/or is close to visually sensitive receivers (VSRs). It is proposed that the screening be compatible with the surrounding environment and where possible, non-reflective, recessive colours be used. Any works areas near the ecological sensitive areas should erect 2m high dull green site boundary fence. Details can refer to the ecological impact assessment (Chapter 13 of the EIA report).	To screen undesirable views of the works site.	Contractor	*Throughout NDAs*	Construction Phase	^
S.12.D9 MM17	LV13-DP10	Light Control – Construction day and night time lighting should be controlled to minimize glare impact to adjacent VSRs during the Construction phase. Street and night time lighting shall also be controlled to minimize glare impact to adjacent VSRs during the operation phase.	To minimize glare impact to adjacent VSRs	Government / Contractor	*Throughout NDAs*	Construction and Operation phases	^
Ecology (Detailed Design, Construction and Operational Phases)							
S13.8	E1-DP10	Use opaque, non-transparent, non-reflective noise barriers. Unnecessary lighting should be avoided.	Minimize mortality impacts on birds.	Detailed Design Consultant/	*Throughout NDAs*	Detailed design, construction and	^

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
				Contractor Maintenance Authority.		Operation phases.	
Ecology (Construction Phase)							
S13.9	E3-DP10	Lower reaches of Siu Hang San Tsuen Stream to have 10m wide vegetated buffer in Open Space Zone D1-3 and Fanling Bypass to cross stream on viaduct.	Minimize impacts on Siu Hang San Tsuen Stream and stream fauna.	Contractor.	*FLN area D1-3.*	Construction phase.	^
S.13.9	E4-DP10	Design and erection of 2m high solid dull green site barrier fence between active works areas and all areas/habitats of ecological importance.	Minimize dust, disturbance, mortality and other adverse ecological impacts on habitats, flora and fauna. Measures to minimize flight-line impacts to birds, especially breeding ardeids.	Contractor.	*Interface between areas/habitats of ecological importance and works areas (all of the north side of the Bypass works areas west of interchange with Sha Tau Kok Road).*	Construction phase.	^
Cultural Heritage (Construction Phase)							
S11.6.2	CH4-DP10	Conducting Construction Vibration Monitoring and Structural Strengthening Measures Construction vibration monitoring and structural strengthening measures	To minimize the potential impacts during Construction phase on any	Contractor.	*Identified potential vibration impacted built*	Construction phase, with details specified in baseline condition	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		should be conducted during Construction phase based on the assessment result of baseline condition survey and baseline vibration impact assessment, so as to ensure the construction performance meets with the vibration standard stated in the EIA report.	identified potential vibration impacted built heritage features		*heritage features*	survey and baseline vibration impact assessment,	
DP12-Reprovision of temporary wholesale market in FLN NDA							
Landscape and Visual (Detailed Design, Prior to Construction, Construction and Operational Phases)							
S.12.D9	LV1-DP12	General Good Practice Measures - For areas unavoidably disturbed by the Project on a short term basis e.g. works areas, the general principle to try and restore these to their former state to suit future land use, should be adhered to. With regard to topsoil, where identified, it should be stripped, treated appropriately, and where suitable and practical stored for re-use in the construction of the soft landscape works such as roadside amenity strips, and open space sites.		Detailed design consultant/ Contractor	Throughout NDAs,	Prior to Construction, Construction & for all planting, this should be installed as soon as the areas become available, to achieve early establishment	N/A
S.12.D9 MM1	LV2-DP12	Minimum Topographical Change –To minimize landscape and visual impacts, the footprint and elevation of such elements should be optimized to reduce topographical/ landform changes, as well as reduce land take and interference with natural terrain. Where there is a need to significantly cut into the existing landform, retaining walls should be considered as well as cut slopes, to minimize landform changes and land resumption, while also considering visual amenity. Earthworks and	Reduce topographical changes and minimize land resumption	Government / Detailed Design Consultant/ Contractor	Throughout NDAs, particularly for reservoirs	Prior to Construction	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		engineered slopes should be designed to be a visually interesting landform, compatible with the surrounding landscape and to mimic the natural contouring and terrain e.g. introduction and continuation of natural features such as spurs and ridges where appropriate, to support assimilation with the hillside setting.					
S.12.D9 MM2	LV3-DP12	Detailed Design (Visual) –The footprint and massing of development components and the works area should also be kept to a practical minimum and the detailed design of development components for Construction phase should follow the Sustainable Building Design Guidelines. The form, textures, finishes and colours of the proposed development components should aim to be compatible with the existing surroundings. To improve visual amenity designs should be aesthetically pleasing and treatment of structures also improve visual amenity. For example, natural building materials such as stone and timber, should be considered for architectural features, and light earthy tone colours such as shades of green, shades of grey, shades of brown and off-white should also be considered to reduce the visibility of the development components, including all roadwork, buildings and noise barriers. In addition, the design of structures should consider green roofs were feasible, following stated guidelines. All Noise barriers, particularly noise barriers but also any barriers	Improve visual amenity of the new buildings, NDAs in general and integrate as best possible into the surrounding landscape	Detailed Design Consultant	Throughout NDAs	Prior to Construction	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		proposed for ecological impact mitigation, should be kept to a practical minimum, and be of such a designed as to integrate as well as possible into the surrounding visual context and be as low as practical to minimize blocking views. Noise barrier design, including vertical, cantilever or curved, and noise enclosures including semi-enclosure and full enclosure, at grade and/ or elevated, should follow the guidelines stated. Construction time frame should also be considered and designs seek to keep it to a practical minimum.					
S.12.D9 MM4	LV4-DP12	Tree Protection & Preservation – Exiting trees to be retained within the Project Site should be carefully protected during construction. In particular OVTs will be preserved according to ETWB Technical Circular (Works) No. 29/2004. Detailed Tree Protection Specification shall be provided in the Contract Specification. Under this specification, the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in Contractor's works areas. A detailed tree survey will be carried out for the Tree Removal Application (TRA) process which will be carried out at the later detailed design stage of the Project. The detailed tree survey will propose which	Protect and Preserve Trees	Government / Detailed Design Consultant/ Contractor	Onsite	Prior to Construction and Construction Phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		trees should be retained, transplanted or felled and will include details of tree protection measures for those trees to be retained.					
S.12.D9 MM5	LV5-DP12	Tree Transplantation – Trees unavoidably affected by the Project works should be transplanted where practical. Trees should be transplanted straight to their final receptor site and not held in a temporary nursery as far as possible. A detailed Tree Transplanting Specification shall be provided in the Contract Specification, where applicable. Sufficient time for necessary tree root and crown preparation periods shall be allowed in the project programme. A detailed transplanting proposal will be submitted to relevant government departments for approval in accordance with ETWBTC 2/2004 and 3/2006 and final locations of transplanted trees should be agreed prior to commencement of the work. For trees associated with highways e.g. roadside planting along highways, that are unavoidably affected and should be transplanted, HyD HQ/GN/13 'Interim Guidelines for Tree Transplanting Works under Highways Department's Vegetation Maintenance Ambit' should be referred to.	Transplant Trees where suitable for transplantation	Government / Detailed Design Consultant/ Contractor	Onsite where possible. Otherwise consider offsite locations	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
S.12.D9 MM6	LV6-DP12	Slope Landscaping – Site formation should be reduced as far as possible. Seeding of modified slopes should be done as soon as grading works are	To avoid substantial slope cutting and fill slopes.	Government / Detailed Design	Onsite	Prior to Construction, Construction Phase &	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		completed to prevent erosion and subsequent loss of landscape resources and character. Woodland tree seedlings and/ or shrubs should be planted where slope gradient and site conditions allow. In addition, landscape planting should be provided for the retaining structures associated with modified slopes where conditions allow. All slope landscaping works should comply with GEO Publication No. 1/2011-Technical Guidelines on Landscape Treatment for Slopes.	To prevent erosion and subsequent loss of landscape resources and character. To ensure man-made slopes are as visually amenable as possible.	Consultant/ Contractor		Maintenance in Operation Phase	
S.12.D9 MM7	LV7-DP12	Compensatory Planting – Compensatory tree planting for felled trees shall be provided to the satisfaction of relevant Government departments. Required numbers and locations of compensatory trees shall be determined and agreed separately with Government during the Tree Removal Application process under ETWBTC 3/2006. Compensatory planting is proposed at the potential open areas such as open spaces, amenity areas, open areas of the streetscapes, as well as the open areas within development lots. Compensatory planting for shrubs should be considered in suitable locations. Native species such as *Melastoma malabathricum, Diospyros vaccinioides, Gardenia jasminoides, Ixora chinensis, Ligustrum sinense, Litsea rotundifolia, Melastoma dodecandrum, Atalantia buxifolia,*	Compensate for trees and shrubs lost due to the Project.	Government / Detailed Design Consultant/ Contractor	Onsite where possible. Otherwise consider offsite locations	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		Rhodomyrtus tomentosa, Rhaphiolepis indica, and *Rhododendron simsii* are suggested.					
S.12.D9 MM11	LV8-DP12	Screen Planting – Tall screen/buffer trees and shrubs should be planted. This measure may additionally form part of the compensatory planting	To screen proposed structures such as roads and buildings. Improve compatibility with the surrounding environment and create a pleasant pedestrian environment	Government / Detailed Design Consultant/ Contractor	Along roads, around suitable built structures, or around VSRs to contain their view out to the NDA structures.	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
Landscape and Visual (Construction)							
S.12.D9 MM16	LV9-DP12	Screen Hoarding –Screen hoarding shall be erected along areas of the construction works site boundary where the works site borders publically accessible routes and/or is close to visually sensitive receivers (VSRs). It is proposed that the screening be compatible with the surrounding environment and where possible, nonreflective, recessive colours be used. Any works areas near the ecological sensitive areas should erect 2m high dull green site boundary fence. Details can refer to the ecological impact assessment (Chapter 13 of the EIA report).	To screen undesirable views of the works site.	Contractor	Throughout NDAs	Construction Phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
S.12.D9 MM17	LV10-DP12	Light Control – Construction day and night time lighting should be controlled to minimize glare impact to adjacent VSRs during the Construction phase. Street and night time lighting shall also be controlled to minimize glare impact to adjacent VSRs during the operation phase.	To minimize glare impact to adjacent VSRs	Government / Contractor	Throughout NDAs	Construction and Operation Phases	N/A

Implementation status:

^ Mitigation measure was fully implemented

* Observation/reminder was made during site audit but improved/rectified by the contractor

\# Observation/reminder was made during site audit but not yet improved/rectified by the contractor

X Non-compliance of mitigation measure

• Non-compliance but rectified by the contractor

N/A Not Applicable at this stage as no such site activities were conducted in the reporting period

APPENDIX R
WASTE GENERATION IN THE REPORTING MONTH

Name of Department: Civil Engineering and Development Department

Monthly Summary Waste Flow Table for 2025

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Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Broken Concrete (a)	Reused in the Contract (b)	Reused in Other Projects (c)	Disposed as Public Fill (d)	Imported Fill (e)	Metals	Paper / Cardboard Packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m^3)
January	2.197	0.000	2.030	0.165	0.003	0.000	0.001	0.366	0.002	0.000	0.247
February	2.223	0.000	1.592	0.437	0.194	1.587	0.001	0.375	1.451	0.450	0.247
March	2.595	0.000	0.240	2.355	0.000	0.051	0.004	0.456	11.153	0.000	0.302
April*	4.412	0.000	0.000	4.412	0.000	0.070	0.003	0.336	0.002	0.000	0.199
May											
June											
Sub-total	11.428	0.000	3.861	7.370	0.197	1.708	0.009	1.533	12.608	0.450	0.995
July											
August											
September											
October											
November											
December											
Total	11.428	0.000	3.861	7.370	0.197	1.708	0.009	1.533	12.608	0.450	0.995

*Remark: The actual quantity of " Others, e.g. general refuse" is up to 28 April 2025.

Forecast of Total Quantities of C&D Materials to be Generated from the Contract*										
Total Quantity Generated	**Hard Rock and Large Broken Concrete**	**Reused in the Contract**	**Reused in Other Projects**	**Disposed as Public Fill**	**Imported Fill**	**Metals**	**Paper / Cardboard Packaging**	**Plastics (see Note 3)**	**Chemical Waste**	**Others, e.g. general refuse**
(in '000m^3)	**(in '000m^3)**	**(in '000m^3)**	**(in '000m^3)**	**(in '000m^3)**	**(in '000m^3)**	**(in '000kg)**	**(in '000kg)**	**(in '000kg)**	**(in '000kg)**	**(in '000m^3)**
1,310.619	300.000	1,010.619	0.000	0.000	0.000	20.000	10.000	20.000	0.500	10.000

Notes:
(1) The performance target are given in PS Clause 1.115(14)
(2) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
(3) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material
(4) The Contractor shall also submit the latest forecast of the amount of C&D materials expected to be generated from the Works, together with a break down of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000m^3.
(5) Conversion factors for reporting purpose:
in-situ: rock = 2.5 tonnes/m^3; soil = 2.0 tonnes/m^3
excavated: rock = 2.0 tonnes/m^3; soil = 1.8 tonnes/m^3
broken concrete and bitumen = 2.4 tonnes/m^3
C&D Waste = 0.9 tonnes/m^3
Slurry = 1.0 tonnes/m3
(6) Numbers are rounded off to the nearest three decimal places
* Forecast
(7) Total Quantity Generated = a+b+c+d

俊和－群利聯營體
CW - KL JV
Name of Department: CEDD

Appendix F

Contract No.: ND/2019/02
Year **2025**

Waste Flow Table

Month	Total Quantity Generated	Actual Quantities of Inert C&D Materials Generated Monthly					Actual Quantities of Non-Inert C&D Wastes Generated Monthly				
		Hard Rock and Large Broken Concrete (b)	Reused in the Contract (c)	Reused in other Projects (d)	Disposed as Public Fill* (e)	Imported Fill (f)	Metals	Paper/ cardboard packaging	Plastics (see Note 2)	Chemical Waste	Others, e.g. general refuse#
	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)
Jan	3,836.54	0.00	0.00	3,700.33	0.00	0.00	0.00	0.00	0.00	0.00	136.21
Feb	3,269.06	0.00	0.00	3,141.29	0.00	0.00	0.00	0.00	0.00	0.00	127.77
Mar	2,763.02	0.00	0.00	2,649.28	0.00	0.00	0.00	0.00	0.00	0.00	113.74
Apr	61.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	61.71
May											
June											
Sub-total	9,930.33	0.00	0.00	9,490.90	0.00	0.00	0.0000	0.00	0.0000	0.000	439.430
July											
Aug											
Sept											
Oct											
Nov											
Dec											
Sub-total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	9,930.33	0.00	0.00	9,490.90	0.00	0.00	0.00	0.00	0.00	0.00	439.43

Notes:
(1) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
(2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.
(3) Broken concrete for recycling into aggregates.

DCK JV

Appendix F
Contract No.: ND/2019/04

Monthly Summary Waste Flow Table for __2025__ (Year)

Month	Total Quantity Generated	Actual Quantities of Inert C&D Materials Generated Monthly					Actual Quantities of Non-Inert C&D Wastes Generated Monthly					
		Hard Rock and Large Broken Concrete (a)	Reused in the Contract (b)	Reused in other Projects (c)	Disposed as Public Fill (d)	Imported Fill (e)	Metals (f)	Paper/ cardboard packaging (g)	Plastics (h)	Glass (i)	Chemical Waste (j)	Others, e.g. general refuse (k)
	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)
Jan	25,135.25	0.00	24,952.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	182.50
Feb	13,711.47	0.00	13,167.98	0.00	367.95	0.00	0.00	0.00	0.00	0.00	0.00	175.54
Mar	258.46	0.00	0.00	0.00	65.26	0.00	0.00	0.00	0.00	0.00	0.00	193.20
Apr	164.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	164.60
May												
June												
Sub-total	39,269.78	0.00	38,120.73	0.00	433.21	0.00	0.00	0.00	0.000	0.000	0.00	715.84
July												
Aug												
Sept												
Oct												
Nov												
Dec												
Sub-total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	39,269.78	0.00	38,120.73	0.00	433.21	0.00	0.00	0.00	0.00	0.00	0.00	715.84

Notes:
(1) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
(2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.
(3) Broken concrete for recycling into aggregates.
(4) Total quantity generated = a+b+c+d+e+f+g+h+i+j

DCK JV

Appendix F

Contract No.: ND/2019/04

Forecast of Total Quantities of C&D Materials to be Generated from the DCK JV											
Forecast Made at the End of the Project	Total Quantity Generated	Hard Rock & Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemicals Waste	Others, e.g. general refuse
	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)
	160,282.30	0	10,000	20,000.00	60,000.00	32,200.00	80	0.8	0	1.5	19,500.00

Monthly Summary Waste Flow Table for _2025___ (year)

Name of Person completing the record: Connie Yuen (EO)

Project : Fanling North New Development Area, Phase 1: Fanling Bypass Eastern Section (Shung Him Tong to Kau Lung Hang) Contract No.: ND/2019/05

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly					
	Total Quantity Generated (a) = (b)+ (c)+(d)+(e)	Hard Rock and Large Broken Concrete (b)	*Reused in the Contract ©	Reused in other Projects (d)	Disposed as Public Fill (e)	Imported Fill (f)	Metals (g)	Paper/ cardboard packaging/ (h)	Plastics (i) (see Note 3)	Yard Waste (j)	Chemical Waste (k)	Others, e.g. general refuse (l)
	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000m^3)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000 kg)
Jan-25	2.150	0.000	0.966	0.000	1.184	0.000	0.064	1.804	0.058	0.000	0.000	126.490
Feb-25	4.252	0.000	1.200	0.000	3.052	0.000	0.062	1.848	0.062	0.000	0.000	124.380
Mar-25	4.835	0.000	1.470	0.000	3.365	0.000	0.072	1.857	0.067	0.000	0.000	120.640
Apr-25	1.792	0.000	0.594	0.000	1.198	0.000	0.068	1.823	0.065	0.000	0.000	72.000
May-25	0.000											
Jun-25	0.000											
Sub-total	13.029	0.000	4.230	0.000	8.799	0.000	0.266	7.332	0.252	0.000	0.000	443.510
Jul-25	0.000											
Aug-25	0.000											
Sep-25	0.000											
Oct-25	0.000											
Nov-25	0.000											
Dec-25	0.000											
Total in 2025	13.029	0.000	4.230	0.000	8.799	0.000	0.266	7.332	0.252	0.000	0.000	443.510
Total of the Project since 2020	137.654	0.000	18.763	2.857	116.034	5.110	142.464	39.124	4.692	819.512	24.982	6144.240

*Approx. estimation for each dump truck is 6m3/truck or 12 ton/truck

Total Quantity of Inert C&D Materials Generated: 137.654 (in '000m3) (a) = (b)+ (c)+(d)+(e)

Monthly Summary Waste Flow Table for _2025__ (year)

Name of Person completing the record:__Sedo SZE (EO)_____

*Due to EPD website, updated to 28/4/2025

Project : Fanling North New Development Area, Phase 1: Site Formation and Infrastructure Works

Contract No.: ND/2019/07

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Broken Concrete (a)	Reused in the Contract (b)	Reused in other Projects (c)	Disposed as Public Fill (d)	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 2)	Chemical Waste	Others, e.g. general refuse
	(in '000T)	(in '000T)	(in '000T)	(in '000T)	(in '000T)	(in '000T)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000 T)
Jan	0	0	0	0	0	0	0	0	0	0	0.024
Feb	0	0	0	0	0	0	0.006	0.050	1.073	0	0.041
Mar	0	0	0	0	0	0	0	0	0	0	0.053
Apr	0	0	0	0	0	0	0	0	0	0	* 0.022
May											
Jun											
Sub-total	0.0000	0.000	0.000	0.000	0.0000	0.000	0.006	0.050	1.073	0.000	0.118
Jul											
Aug											
Sep											
Oct											
Nov											
Dec											
Total	0.000	0.000	0.000	0.000	0.000	0.000	0.006	0.050	1.073	0.000	0.118

Notes:
(1) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.
(2) Plastics refer to plastic bottles/containers, plastic sheets/ foam from packaging materials.
(3) Broken concrete for recycling into aggregates.
(4) Total Quantity Gernerated = a+b+c+d..

APPENDIX S
COMPLAINT LOG

Appendix S - Complaint Log

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
COM-2020-07-01	Public Road at Portion 6a (ND/2019/01)	13th July 2020	The EPD visit on 13 July 2020 was to respond the complaint received from the 2nd week in July regarding the dust problem in public road of Portion 6a. Mr. Tse (EPD) observed muddy wheel track on the public road, and he expressed that the public road should keep free of mud even it was inside the project area. He also advised BKRWJV (the Contractor) to clean up the muddy wheel track and provide rectified photos to him.	A designated person is provided at the ingress/egress for vehicle washing before the wheel washing facility is in use, this is to make sure all vehicle are free of mud before leaving the site. And, the designated person is also responsible for cleaning the public road if any mud is found on it.	Closed
COM-2020-11-01	Portion 4 and Portion 7 near Dills Corner Garden (ND/2019/01)	11th November 2020	The EPD inspection at Portion 4 on 11 November 2020 was to respond the complaint regarding the dust problem near Dills Corner Garden referred by a District Council Member. No construction activities was carried out and no obvious dust emission was observed. EPD advised BKRWJV (the Contractor) to increase the height of temporary water barrier and install sprinklers on bare ground. Another EPD inspection was conducted on 26 November 2020 at	The height of temporary water barrier was increased at Portion 4. Sprinklers were installed on bare ground at Portion 4 and on top soil at Portion 7. Manual water spraying were provided regularly. Hydroseeding will be provided on soil surface at Portion 4 for long-term measures. Proper implementation of dust mitigation measures will be continuously reviewed and monitored to avoid potential dust impact on site.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
			Portion 7 for the dust complaint. During inspection, no obvious dust emission was observed and potential dust may generate from top soil which appear to be dry. EPD advised the Contractor to install sprinklers on top soil for dust suppression.		
COM-2020-11-02	Works Area A & B (ND/2019/05)	27th November 2020	The complainant complained about the noise generated from the alarm of scissors platform during works for PM's site accommodation on Sunday and called the police force. Police officer has checked that Construction Noise Permit has been applied for the construction work. Also, the complainant complained about the reflective blue color of roof material of site office.	Permit-to-Work system was properly implemented for works at restricted hours. The PME used have been checked in compliance with the valid Construction Noise Permit (CNP No.: GW-RN0788-20). Acoustics mats were erected between works area and noise sensitive receivers. Scissor platform or noisy work activities will be arranged and minimized to be used on Sunday or evening time on weekdays. Specific training for the quieter works arrangement was provided to workers. Also, the blue roof will be covered by non-reflective green roof material.	Closed
COM-2021-01-01	Ma Tso Lung Road (ND/2019/01)	7th January 2021	A complaint regarding soil deposited on Ma Tso Lung Road was referred by EPD verbally.	No soil / mud deposit or mud track were observed along the Ma Tso Lung Road during investigation and site inspection between Contractor, the *Supervisor*, ET and IEC. The road condition of Ma Tso Lung Road will be closely monitored and the public road will be regularly cleaned if mud deposit was observed. Wheel washing facilities at every site entrance will be regularly monitored to ensure proper implementation of dust control measures.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
COM-2021-01-02	Ma Tso Lung Road (Near L/P VD5622) (ND/2019/01)	13th January 2021	A complaint was received from 1823 regarding the suspected odour emitted from muddy water discharged.	Water sample collected from the wastewater treatment facility was clear and no odour was detected. Sewage from chemical toilet was collected on a regular basis by licensed collector. Brownish wastewater was observed discharging upstream of the site from an unknown factory to the uncharted channel which may be potential source of the odour.	Closed
COM-2021-01-03	CTC Storage Yard (ND/2019/05)	22nd January 2021	A complaint was referred from EPD regarding the noise generated before 7 a.m. on weekdays and machinery noise generated on Sunday from CTC Storage Yard.	No attendance record of workers working for CTC Storage Yard earlier than 8 a.m. and on Sunday (day of complaint) was recorded. To ensure strict compliance to Noise Control Ordinance and prevent noise nuisance to the nearby villages, the Contractor has implemented the following enhancement measures: 1. Issue a memo to the relevant sub-contractor on restricted working hour. 2. Conduct specific training to sub-contractor frontline supervisor and works. 3. Apply a construction noise permit for the suspected location.	Closed
COM-2021-01-04	Ho Sheung Heung (ND/2019/02)	28th January 2021	A complaint was received from 1823 regarding an idling construction vehicle near Ho Sheung Heung to operate the engine for over 10	Ad-hoc training was provided to workers on switching off idling engines when awaiting on site. Poster for “Switching off idling engines” was posted at site entrance to alert workers on the	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
			minutes. Also, the complainant complained on noise nuisance from the speaker during meeting.	issue. For noise nuisance from the meeting, the speaker volume in the future event will be lower as much as possible.	
COM-2021-02-01	CTC Storage Yard (ND/2019/05)	4th February 2021	A complaint was received from EPD call on 2nd February 2021 regarding a noise complaint from a Tong Hang villager about noise from CTC storage yard at around 19:00 – 20:00 on 1st February 2021.	The suspected cause of the complaint was the delivery of a rotary drilling rig by a tractor lorry arrived at CTC Storage Yard at around 19:00 at 1st February 2021. The delivery time was restricted due to the oversized tractor lorry (width >2.4m and length protruded >1.4m at tractor tail). No loading and unloading was conducted during the time of complaint. For follow up action, the Contractor will apply Construction Noise Permit for any foreseeable delivery that may not be finished before restricted hours and will notify possible affected village representatives in advance.	Closed
COM-2021-02-02	CTC Storage Yard (ND/2019/05)	16th February 2021	A complaint was received from EPD call on 10th February 2021 regarding a noise complaint from a Tong Hang villager about some impact noise from CTC Storage yard at Sunday's daytime (7th February 2021).	Under investigation, erection of chain link fence for separating works area and adjacent village house was conducted by a sub-contractor on 7th February 2021 without notification to the Contractor. Sub-contractor has been reminded that any work within site area shall be conducted after instruction by the Contractor and permit-to-work system on restricted hours works shall be strictly followed.	Closed
COM-2021-02-03	CTC Storage Yard (ND/2019/05)	2nd March 2021	A complaint was received from EPD call on 24th February 2021 regarding a noise complaint from a Tong Hang villagers about some machinery noise	Further enhancement on erection of acoustics mats and mobile acoustics mat panels was conducted at strategic location at E1-01 for mitigation of the noise impact to the nearby	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
			and dust from CTC Storage yard. Joint site inspection of the Contractor, the *supervisor* and EPD was conducted on the same day for the bored piling at CTC Storage Yard and check on the noise and dust mitigation measures. EPD requested to enhance noise and dust mitigation measures for grabbing operation of the Rotary Drill Rig for construction of piles of E1-01.	sensitive receivers. Regular water spraying has been applied to suppress the dust from grabbing procedure and the skip.	
COM-2021-03-01	Ma Tso Lung Shun Yee San Tsuen (ND/2019/01)	1st March 2021	A complaint was referred from EPD regarding fly-tipping of C&D waste near Ma Tso Lung Shun Yee San Tsuen and muddy public road.	Under investigation, the suspected site near Shun Yee San Tsuen was out of project site boundary. Internal trip ticket system was properly implemented for dump trucks transported from project site to other approved alternative disposal ground. Also, dump trucks were properly washed and mechanical cover of dump trucks were closed while leaving the site. For follow up action, banners and flags were displayed on site to promote the environmental protection awareness. Regular training was provided to remind the dump truck drivers that illegal dumping is strictly prohibited.	Closed
COM-2021-03-02	CTC Storage Yard (ND/2019/05)	15th March 2021	A complaint was received from EPD call and an inspection by EPD was conducted on 9th March 2021 regarding a dust complaint from a Tong Hang villager. The complainant	For follow up action, the Contractor provided training to remind frontline supervisors and workers to wet the auger before movement when it was dried for preventing any occasional situation that the auger was dried.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
			complained that rotary drill rig shall be equipped with enclosure for dust control and rotary drill rig had exhaust disturbance. Also, the complainant requested to improve wheel washing at site entrance.	The Contractor provided training to brief frontline supervisor and the operators to prevent exhaust disturbance. Also, the drill rigs exhaust pipe shall not face to the public area. If it is avoidable, screens shall be arranged to divert the exhaust gas. An additional cut-off drain was constructed and notice signs were erected for notifying drivers to give wheel washing in front of the cut-off drains.	
COM-2021-03-03	Ma Tso Lung Road (ND/2019/01)	9th April 2021	A complaint was referred from EPD on 23 March 2021 regarding muddy public access road along Ma Tso Lung Road.	The muddy access road was found generated from a nearby private factory where the access road is not hard paved. The Contractor arranged water browser to help clean up the section of road on 24th and 25th March 2021 respectively. Also, dump truck were properly washed at project site exit near Ma Tso Lung Road.	Closed
COM-2021-04-01	Long Valley, Kwu Tung (ND/2019/03)	9th April 2021	A complaint was referred from EPD regarding to associated impacts arising from construction works at Long Valley Nature Park, causing nuisance and affecting the habitat and ecological value in Long Valley.	Construction works for development of Long Valley Nature Park are conducted according to the recommended mitigation measures stated in Habitat Creation and Management Plan. Wetland creation and restoration works are in progress which include provision of paddy field, turning abandoned agricultural lands into wet agricultural land and provision of open water habitat with bird island. Irrigation channel is under construction for provision of reliable water supply to farmland. For construction works, the following significant mitigation measures are implemented: 1. Provide noise barriers to minimize noise nuisance to adjacent field where Greater Painted-	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				snipe was found; 2. Arrange concrete pump for concreting works to minimise noise impact; 3. Provide water spraying on the exposed earth to dampen the dusty surface; 4. Provide shade cloth to separate works area and marsh where Greater Painted-snipe were found; 5. Demarcation of temporary vehicle access to prohibit vehicle across the farmland; 6. Provide 2m dull green site boundary fence along Long Valley work areas; and 7. Block the main accesses by temporary barrier to avoid human disturbance.	
COM-2021-04-02	Close to junction of Ma Wat River and Ng Tung River (ND/2019/04, ND/2019/05, ND/2019/06)	23rd April 2021	A complaint was referred from EPD regarding to suspected polluting effluent discharged from Ma Wat River near junction of Ma Wat River and Ng Tung River.	Under investigation, muddy water was observed from a small stream of Ma Wat River which is outside project site boundary. Contractor's wastewater treatment facilities and mitigation measures on water quality were checked. Latest discharge monitoring results shows the discharge quality in compliance with the limit stated in the discharge licence. The following mitigation measures will keep implemented and inspected: 1. Installation of silt curtain, geotextiles and concrete blocks for excavation works at Ng Tung River with regular inspection; 2. Exposed slope paved with concrete to prevent muddy runoff; 3. Setting up wastewater treatment plants at	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				several locations of the site area; 4. Bund/seal off works area near river and set up with dewatering system; 5. Spare water pumps and sand bags for emergency use during heavy rain; 6. Regular training to the operators of wastewater treatment facilities; and 7. Regular checking and maintenance of the wastewater treatment facilities and desilting tank.	
COM-2021-04-03	Near Shek Wu San Tsuen, Sheung Shui (ND/2019/04)	28th April 2021	A complaint was referred from EPD regarding to construction dust arising from dump trucks from construction sites near Shek Wu San Tsuen.	No obvious dust emission was observed during EPD inspection on 28th and 29th April 2021, However, potential dust impact may arise from sandy materials found on public road and exposed ground surface. For follow up action, soil debris were removed at public road. Water spraying was provided on the exposed ground surface. Also, all dump trucks are covered properly and wheel wash is provided before leaving site. Implemented of the mitigation measures will keep reviewed and monitored.	Closed
COM-2021-05-01	Near Tong Hang section of Ma Wat River (ND/2019/05)	17th May 2021	A complaint was referred from EPD regarding to suspected polluting effluent discharged from construction sites near Ma Wat River.	Under investigation, no pollution from works areas near Ma Wat River was observed. For wastewater pollution control, all wastewater treatment facilities have been setup at discharge points. According to the latest discharge monitoring results on April 2021, no non-compliance to limit set in discharge licence was recorded. Regular maintenance and services of the facilities have been conducted. Close monitoring	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				with checklist has been conducted by operators of the facilities. Mitigation measures such as sealing gaps between concrete blocks/water barriers/pipe pile walls have been implemented to prevent leakage. Implementation of the mitigation measures will keep reviewed and closely monitored.	
COM-2021-09-01	Chau Tau Road near the CLP Chau Tau Substation (ND/2019/01)	2nd September 2021	A complaint was referred by EPD and an inspection by EPD was conducted on 3 September 2021 regarding a muddy public access road at Chau Tau Road near the CLP Chau Tau Substation.	Ad-hoc site inspection was conducted on 2 Sep 2021 at Chau Tau Road near the CLP Chau Tau Substation, no muddy wheel track or soil deposit was observed. No concrete lorry was observed using the Chau Tau Road near the CLP Chau Tau Substation. Concreting at Portion 5 was observed during EPD inspection on 3 September 2021, wheel washing bay and manual wheel washing was provided at site exit, all vehicles were properly washed and no muddy track was observed at Chau Tau Road. The Contractor has been implement following mitigation measure upon received the complaint: • Rearranged the traffic route and informed the concrete lorry drivers not to use Chau Tau Road; • Keep monitoring the effectiveness of the wheel washing facilities at site exist; and • Clean up the public road immediately if soil deposit was observed.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
COM-2021-09-02	Not specified (ND/2019/01)	3rd September 2021	A complaint was referred by EPD regarding C&D waste stored on site.	Refer to the photos provided by the complainant, the mentioned C&D waste mainly felled trees mixed with general refuse and temporary stored within the site boundary, Ad-hoc site inspection was conducted by Contractor and RSS on 3rd September 2021, all C&D waste were stored within the site boundary, no odour perceived during site inspection. The Contractor has been implement following mitigation measure upon received the complaint: • Sort out the non-inert waste from the felled trees; • Remove the general refuse if possible, otherwise, coved by tarpaulin sheet; and • Relocate or transport the yard waste to other places which are not easy visible by public. Implementation of the mitigation measures will keep reviewed and closely monitored to ensure no adverse impact will be generated from the construction works of the Project.	Closed
COM-2021-11-01	Close to Shek Wu San Tsuen (ND/2019/04)	3rd November 2021	A complaint was referred from EPD on 22th November 2021, about various issues including suspected environmental nuisances from the captioned Project from a member of public on 3rd Nov 2021. He followed-up again on 19th Nov 2021.	Site inspection was conducted by contractor and EPD inspectors on 25th November 2021, no obvious dust emission was observed within site boundary. The potential dust impact may arise from sandy materials found at public road which is under DSD maintenance. Air quality monitoring was carried out at location FLN-DMS1 - Scattered Village	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				Houses North of Proposed Potential Ecopark and Location FLN-DMS5 - Noble Hill near Shek Wu San Tsuen in accordance with the EM&A manual. With reference to the air quality monitoring data collected in Nov 2021, all monitoring data were complied with the action and limit level and no exceedance was recorded. The Contractor has been implement following mitigation measure upon received the complaint: • 工程團隊亦已於接近民居並正在進行大型工程(例如建造大口徑樁)位置安裝了各種隔音屏障，例如在大型機器的發電機上加上隔音布、在圍板加上隔音屏障 • 增加自動灑水系統	
COM-2021-12-01	On Kui Street along Ma Wat River (ND/2019/05)	13rd December 2021	AECOM referred to public complaints received by 1823 on 13 December 2021 regarding "中鐵建保華聯營公司粉嶺地盤工人沖建築泥水落河 污染河道。"	Refer to the photo attached in the above complaint, it is suspected that there were bentonite slurry leaking from the flexible pipe joint near works area of pier C2-01 and the cause of incident as blow: • Tightness of flexible pipe joint • Worker's awareness and knowledge on proper handling of pipe leakage • Readiness of contingency tools and equipment for the pipe leakage The Contractor has been implement following mitigation measure upon received the complaint: • Doubling pipe clamps at each joint to strengthen the connection tightness and	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				seal • Briefing workers for proper spillage handling • Well readiness of contingency tools and equipment for handling of leakage • Designating responsible supervisor for regular pipeline condition check and monitoring • Daily inspection for pipeline condition by responsible supervisors before works • Erection of bunding/sandbags along the works area to effectively stop any potential leakage/surface runoff • Review and updated Environmental Management Plans (EMP) covering Site Specific Procedures for Muddy runoff/leakage Control (See CSF submission, ref. no. CSF/HSE/002115) on 21 Dec 2021 • Specific trainings of proper handling of leakage adjacent to the river/drainage for JV managerial and supervisory staff	
COM-2022-01-01	Close to Shek Wu San Tsuen (ND/2019/04)	13rd January 2022	A complaint was referred from EPD on 14 Jan 2022 from a public member alleged the captioned Project of "我們每個工作天都會受到高噪音和震動的影響，在沒有足夠的保障下，使近距離的民居十分擔心，屋裂有惡化跡象，兒童/長者難有	Contractor have carried out daily noise monitoring and vibration monitoring. No exceedance was recorded. The monitoring results are displayed on the notice board for easy reference. For noise control measures, QPME label are affixed to generators and acoustic noise barriers are mounted on powered mechanical equipments such as	Closed

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			寧靜環境，成人在家中工作、兒童做功課在噪雜的環保下，難以適應，我們很希望受到合理的重視和改善，使實際環境不會太差。”	excavators, crawler cranes and vibration hammers and installed along hoarding to minimize noise nuisance to neighborhood. Based on the findings of investigation, no exceedance of noise and vibration monitoring was found. Contractor will ensure that the construction works carried out must comply with the condition stated in the Noise Control Ordinance and to implement mitigation measures proposed in the Project Implementation Schedule.	
COM-2022-01-02	Near Sheung Yue River (ND/2019/02)	28th January 2022	A complaint was received from 1823 on 28 Jan 2022 regarding “在雙魚河河邊單車徑附近的工程，一個多月來，當工人沒有工作期間，所有機械都沒有熄匙，當機械運作時，產生很大的嗓音及很多廢氣。 理解工人有工作時，機械運作是正常，但一個月來工人沒工作時，機械依然運作，產生問題嚴重，要求部門跟進及處理。”	Investigation was conducted by contractor on 4 Feb 2022. All plants are turned off when awaiting more than 3 min. Dark smoke monitoring for the powered mechanical equipment had been carried out. No dark smoke was recorded. Based on the findings of investigation, no exceedance of noise and air monitoring was found. Follow-up Actions had been conducted on 4 Feb 2022. Mitigation measures are implemented. Dull green barriers are installed around active works areas to prevent dust emitted to the public. QPME is used to minimize noise nuisance to the neighbourhood. Specific environmental training about Noise and Smoke Control for Plants was provided to frontline staff on 4 Feb 2022. The frontline staff was reminded to switch off idling equipment for	Closed

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				preventing recurrence of idling construction equipment awaiting on site, and carry out routine maintenance of plant and equipment for mitigating unwanted noise and air pollutant emissions.	
COM-2022-02-01	Ng Tung River (ND/2019/04)	17th February 2022	EPD received 2 complaints from members of public about suspected disposal of foam waste and illegal discharge from the captioned Project to Ng Tung River on 13 & 16 Feb 2022 respectively. Details of complaint case received on 13 Feb 2022: 「本人途經唔上水悟洞河近馬屎埔新村附近地盤發現河道有大量懷疑發泡膠影響何到魚類生物, 要求環境保護署或相關部門進行跟進」 Details of complaint case received on 16 Feb 2022: 「2022年2月10日下午三時，發現梧桐河面出現乳白色，懷疑與附近工程泥漿水有關，懷疑經雨水渠排出。」	Investigation was conducted by contractor. It is found that no foam has been used on site. No construction works was carried out during 9 Feb to 14 Feb 2022 at A3 piling platform as two suspected close contact cases for A3-02 piling platform team was found. The bored piling works and A3 piling platform welding works was suspended from 9 Feb 2022 and resumed on 14 Feb 2022 after the whole team received negative results. Mitigation measures are implemented, there is a silt curtain enclosing the opened workfronts and the openings of the A3 piling platform. Hence, the platform and other workfronts along the river have no discharge to the river. In addition, it is reported that suspected contaminated water was discharging to Ma Wat River from surrounding industrial buildings near C5 contract site. Based on the findings of investigation, no foam	Closed

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				has been used by on site and no suspected contaminated water was discharged from the project. Thus, the complaint cases are not caused by our project.	
COM-2022-03-01	Near Ho Sheung Heung (ND/2019/02)	2nd March 2022	A complaint was received from EPD on 8 Mar 2022 from a public member regarding "投訴河上鄉鄉公所附近地盤的機器及吊雞車的難嗅氣味滋擾 "	Joint inspection for the issue was conducted by AECOM, Environmental team, Contractor on 9 March 2022 and no source of odour was found during the inspection. There was no major works. The area is for temporary soil storage. Only one excavator is at Portion 11. The excavator is well maintained and no bad smell is emitted. Moreover, all plants are checked before used. As per the contract requirement, project must use Euro V diesel in our plants, which is a cleaner fuel than industrial diesel and shall generate less odour. Project regularly conducts diesel sampling and testing to ensure that the used fuel is Euro V diesel. A diesel sampling for the excavator at Portion11 was also conducted on 9 March 2022. Based on the findings of investigation, all plants are well maintained and checked before use. Cleaner fuel is used for plants onsite. No odour was found. CW-KL JV mitigates air pollution from sources to reduce environmental nuisance to the neighbourhood.	Closed
COM-2022-03-02	Near Ho Sheung Heung (ND/2019/02)	23rd March 2022	A complaint was received from EPD on 22 Mar 2022 from a public member regarding "河鄉近洪聖爺廟	Joint inspection for the issue was conducted by AECOM, Environmental team, Independent Environmental Checker and Contractor on 25 March 2022. There was no major works. The area	Closed

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			有個很大的基建地盤, 經常發出很大噪音,包括車輛駛入後停泊時的聲浪,地盤面積有半個摩士公園大,車輛可以泊到其他地方,減少對居民的滋擾,之前亦曾作出相同投訴,有環保署職員跟進,故現堅持要求再次跟進及回覆 "	is for temporary soil storage. A dump truck was at portion 11, but left the site in short time. All dump trucks used in the project would not stay on site overnight and left the site before 6p.m. One excavator and one loader were at Portion11. No idling crane lorry was at Portion 11. The equipment would be switched off when not in use. Moreover, all our plants are well maintained and checked before used. Noise monitoring around Portion 11 had been conducted on 26, 28 and 29 March 2022 (AM and PM periods) by Contractor with AECOM. The noise levels are lower than the standard of noise requirement for domestic premises (75dB(A)). It was predicted that no noise exceedance would be found at NSRs. Environmental Training related to use of equipment onsite had been provided to site staff to increase their awareness of environmental protection. Posters of mitigating adverse environmental impacts had been fixed at Portion 11 to increase workers' environmental awareness. QR codes for air quality, noise, and water quality monitoring data conducted by Environmental team of the project had been also fixed at Portion 11 for the public's information. Based on the findings of investigation, all plants	

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				are well maintained and checked before use. CW-KL JV mitigates noise pollution from sources to reduce environmental nuisance to the neighborhoods. No noise exceedance is predicted to be found at NSRs. Environmental promotion is given to site staff to increase their awareness of environmental protection.	
COM-2022-06-15	Near Ng Tung River, adjacent to Shek Wu San Tsuen North (ND/2019/04)	5th July 2022	A complaint was received from EPD on 15 June 2022 from a public member regarding "本人住在梧桐河多年，每天都會到河邊兩岸進行晨運或會經河邊出外購物。由年頭開始，兩岸邊有些小型機械在進行工程，開始時還好，但近期發現機械所發出的黑煙比以前多，有時發現有些污水，泥水和油污流道出行人道來。本人有一次發現有些泥水和油污落到溝渠和地面，便好心跟現場人員講叫他們小心。但是他們沒有理會，因為梧桐河是一個非常美麗的地方，假日也有很多人來遊玩。避免意外發生，希望貴處能代為處理。"	Investigation was conducted by contractor and reply as follow: "工程團隊經常及日後亦會加緊巡視地盤範圍，同時敦促工程人員注重機械及挖掘機的廢氣排放，以及工程污水或泥水流出，減少對周邊環境的影響。" Air monitoring was conducted on 2, 8, 14, 20, 24 and 30 June 2022, including AM and PM period. No exceedance of air monitoring was found. One exceedance of Water Quality Monitoring was found on 13 June 2022, but based on the investigation report, there was no direct evidence showing that the exceedance recorded at the 3 nearby monitoring stations were due to Contract. For dark smoke emission, the contractor would collect and test the Ultra Low Sulphur Diesel(ULSD) content monthly. For monitoring of any muddy water discharging from construction activities, the contractor would collect and test the suspended solids from Ng Tung River monthly, also collect and test pH, suspended solids and	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				COD of wastewater sampling at wastewater treatment plant monthly.	
COM-2022-06-28	Near Ng Tung River, adjacent to Shek Wu San Tsuen North (ND/2019/04)	5th July 2022	A complaint was received from EPD on 28 June 2022 from a public member regarding "連續兩日聞到燒塑膠燒鐵味，然後見到地盤這部機放黑煙，每幾秒噴一次村民不想再持續吸入這些毒氣。"	Investigation was conducted by contractor and reply as follow: "本工程沒有包含燃燒塑製品或鐵製品工序，而附近居民有焚燒垃圾習慣，有可能因而產生誤會；工程所使用的機械及挖掘機已符合環保署要求，有團隊接收投訴後即時於6月29日安排維修人員檢查相關挖掘松並無異常，同時就投訴人的關注已於7月4日將所述挖掘機調離該範圍。工程團隊會繼續盡力安排工程機械及挖掘機在合理工作距離內遠離居民住處，以減少對居民的影響。"	Closed
COM-2022-06-30	Near Ng Tung River, adjacent to Shek Wu San Tsuen North (ND/2019/04)	5th July 2022	A complaint was received from EPD on 30 June 2022 from a public member regarding "講嚟講去都係得個講字，日日都大塵，又話整自動灑水系統等咗咁耐都冇，機器又放黑煙又臭。"	Investigation was conducted by contractor and reply as follow: "自動灑水系統已安裝完成，另外工程人員亦會手動向工地範圍噴灑水份，以減低塵埃對附近居民的影響；而由於相關投訴時段（6月30日）至今均為雨天，工程人員亦有持續觀察塵土飛揚及泥水等開題，由於雨水可有效隔絕塵埃，待天氣好轉後相關恆常減少塵埃的措施亦會恢復，例如地面乾燥就會進行相對應減少塵埃的措施，包括人手及自動灑水等。"	Closed
COM-2022-07-21	Man Young Storage area (ND/2019/05)	21st July 2022	EPD received a public complaint on 14 July 2022 from nearby villagers regarding noise and odour nuisance from generators. Complaint detail is as follow:	Investigation was conducted by contractor and clarify a few points as follow: 1. Instead of four generators being used simultaneously from the complaint, there shall be actually two generators being used	Closed

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			"現投訴地盤長期24 小時 長期用柴油發電機，做成民居滋擾，因為噪音及震動.附近居民無法睡眠，柴油氣味亦令人非常討厭，請問法例是否不能晚上七點後不能用柴油發電機.另外那地盤晚上七點後亦冇人工作.故亦不一需要長時間開發電機，而那地盤共有四個發電機同時開動.。該地盤為保華公司與中國建築聯營。正確地址為粉嶺塘坑村370 號。萬勇地盤。燈柱號碼AJ2326 對面"	alternatively (one is solely for standby purpose) for power supply of site works and containers. 2. Instead of 24 hours operation of the concerned generator from the complaint, there shall be actually no restricted hour (19:00-07:00) works for generator operation according to our permit-to-work system (see appendix I). 3. A valid construction noise permit (ref. no.: GW-RN0551-22) is obtained on 11/7/2022 covering concerned works area and PMEs before 23:00 (see appendix II). All conditions imposed on permit will be strictly followed once restricted hour works are conducted. The cause of the complaint is concluded to be noise and odour nuisance for the daily operation of one generator in non-restricted hours (07:00 to 19:00). For noise mitigation measures, contractor had arranged all generators of Quality Powered Mechanical Equipment (QPME) type and installed sound reduction fabric along the side of site boundary facing to the villagers. On top of these measures, JV had installed acoustic blanket (27 dB sound reduction) enclosing the two generators for non-restricted hour operation For odour mitigation measures, on top of currently	

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				using all generators with approved NRMM type, JV also installed odour adsorption bags which is made of activated carbon during oil fueling practice to further reduce nuisance.	
COM-2022-07-27	Near Portion 1b/1c (Ma Tso Lung) (ND/2019/01)	27th July 2022	A complaint referred from 1823 regarding dust emission and noise impact, "古洞馬草壟地盤沒有任何圍板引致沙塵及噪音影響附近村民事宜"	The contractor claimed that due to the confirmation of site formation level of the hoarding, water main diversion and necessary access, the erection of site hoarding is on hold. Weekly environmental walk was conducted at the mentioned area on 19 and 26 July 2022, no obvious dust emissions and noise impacts were identified. EPD carried out complaint investigation at Portion 1b / 1c on 26 July 2022 at 11:00, no adverse comment was given. Air quality monitoring and noise monitoring were carried out at nearby location once to twice a week and no exceedance was recorded. An ad-hoc noise monitoring was carried out on 28 July 2022 at Portion 1b, no exceedance was recorded also. The contractor would start the hoarding erection in early of August 2022, erect tarpaulin sheet on temporary fencing in front of villager's house etc as mitigation. The environmental conditions of the site will be continuously reviewed and monitored to ensure no adverse impacts generated from the construction works of the Project.	Closed

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COM-2022-07-21	Lower Ng Tung River (from upstream Ma Wat River) (ND/2019/05)	29th July 2022	EPD received a complaint on 29 July 2022 concerning that the brownish silty water was continuously flowing to Lower Ng Tung River from upstream of Mat Wat River. The complaint was forwarded to ET by EPD through email on 5 Aug 2022. Based on peripheral inspection, the muddy water was spotted.	At the time of EPD's inspection, a tiny gap was found at the bund around the sheet piles at B2-03. The gap was then sealed off so as to prevent muddy runoff from the sheet piling work. Concerning the photo taken at C2-02 by EPD, there shall be collection facilities to divert runoff to our wastewater treatment plant prior to discharge. Wastewater collection facilities including sufficient water pumps and flexible pipes are prepared during works. Meanwhile, below are some JV's regular preventive measures for water pollution control: 1. 18 nos. of wastewater treatment facilities are operating for different working areas including B2-03 and C2-02; 2. Discharge qualities are regularly monitored and tested by HOKLAS accredited laboratory. The results show all discharge quality are complying with discharge standards as per discharge license, test results for concerned areas which were submitted to EPD.	Closed
COM-2022-08-08	Ma Wat River near Lamp Post EB1339 (ND/2019/05)	8th August 2022	EPD received a complaint EPD ref: N07/RN/00016607-22 on 8 August 2022 and forwarded to ET through E-mail on 12/08/2022 and transferred to JV on the same day. The complaint content: "近電燈柱	**Noise** Refer to the Contractor's internal Permit-to-Work (PTW) System for restricted hours works, there was no works carried out at Pier C4-01 on any Sundays or public holidays which is nearest to the lamp pole EB1339 since 13 July 2022. The	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
			EB1339 沿麻芿河一帶，有一大型建天橋工程，本來已經帶給鄉郊空氣和噪音污染，近來星期日和假期也開工，其機器均嘈雜和發出廢氣，貴署不應該容許工程在假日運作，嚴重影響跑步、踏單車和郊遊人士。請貴署注視。"	Sundays works at Pier C4-02 and C4-03 which are further away from the aforesaid lamp pole were performed in accordance with the CNP ref. GW-RN0551-22 (with validity from 11 July 2022 to 10 October 2022 granted by EPD on 30 June 2022). Therefore, the possible cause of the incident might be Sundays' works at Pier C4-02 and C4-03 on 31/07/2022 and Pier C4-02 on 07/08/2022 but the works at these areas were carried out in complying with the condition to the valid CNP. **Air** For the aforesaid Sundays' works for Pier C4-02, a generator has been used and emitted exhaust gas that might be the cause of the incident. There is a high volume sampler for regular air monitoring at around 30m distance from the generator. Up to now, there was no any exceedance reported from ET since commencement of the project. Based on the above findings, it might conclude that there was no any non-compliance issue. Nevertheless, the Contractor will conduct internal surprise check to the restricted hours works, if any, and give exhaust checking and fuel testing to ensure compliance of ULSD standard.	
COM-2022-08-16a	Ma Wat River near Lamp Post EB1339 (ND/2019/05)	16th August 2022	EPD received a complaint (EPD ref: N07/RN/00017008-22) regarding water pollution in Fanling On Lok Tsuen near lamp post EB1339 on 16	To facilitate ET's investigation, this report is providing the following information: Since the works areas vicinity to lamp post EB1339 are Piers C4-01 and C4-02, the following	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
			August 2022. EPD forwarded the case to ET through email on 17 August 2022. The complaint content: " 本人留意到近麻芬村的麻芬河有大量水泥水流入河，影響釣魚人士，查看下，是由上游 (近安樂村業和街利亨中心近電燈柱EB1339) 一帶的多個大型工程的水泥流入河。 另外，建築物和工地範圍和附近很多積水，很污糟，有大量工人的飯盒和垃圾，引起蚊患和衛生。"	investigation are focusing on these two works area locations. 1. Site activities at Piers C4-01 and C4-02; From thorough investigation, there are only minor defect rectification works for pier concrete surface at Pier no. C4-01 which is nearest to the lamp pole EB1339. Besides, there are only formwork/falsework dismantling works in the concerned area at Pier C4-02 which is further away from the aforesaid lamp pole. The whole area has been hard paved without any muddy surface. It is reasonably concluded that there are no construction activities in the concerned location which would generate large amount of muddy water. 2. Preventive measures for pollution control; 18 nos. of wastewater treatment facilities have been setup and operating for different working areas including works area of Pier Nos. C4-01 & C4-02 in the concerned period. 3. Latest discharge monitoring results; The water quality of the discharge from the Site have been monitored according to the granted discharge licence ref. WT00036996-2020. Discharge qualities are regularly monitored and tested by HOKLAS accredited laboratory. The results show all discharge samples are complying with discharge standards outlined in discharge license, test results of discharge sample in concerned areas which were	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				submitted to EPD. 4. Any possible source of muddy discharge to induce the captioned incident; Based on the above information and investigation findings, it is concluded that the source of muddy discharge was not related to the construction activities under Contract No. ND/2019/05. 5. Housekeeping; Receptacle with lid were provided on site. Cleaning have been performing in daily basis. Daily morning brief have been conducting to remind frontline staff about housekeeping. Although it is concluded that the complaint was not related to the Contract, the Contractor will keep daily monitoring on site condition and visual check discharge qualities against with standard solution of suspended solids (30 mg/L stipulated in licence condition) in order to get rid of any muddy discharge to the river. In addition, the Contractor will regularly conduct morning briefing and tool-box training to the frontline for keeping refresh their awareness on muddy water control.	
COM-2022-08-16b	Ma Sik Road and Sha Tau Kok Road near Lung Yeuk Tau (ND/2019/04)	16th August 2022	A complaint was received from EPD on 16 August 2022, "One Innovale construction site located in Ma Sik Road and Sha Tau Kok Road (Lung Yeuk Tau) that has been creating not only serious dust but also muddy	Investigation was conducted by contractor and reply as follow: "Despite the fact that the One Innovale construction site, where the complainant concerned about, is not part of ND/2019/04 project, we would ensure all vehicles has used the	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
			materials along the main road. During sunny days, dust flies up with busy traffic flow. This morning I even saw muds dropped down from the trucks made the road a muddy mesh pollution."	wheel washing facilities before leaving the site. Also, we have assigned two workers to conduct cleaning works to area adjacent with our vehicle egress. Moreover, we inspect every dump trucks on application of mechanical dump truck cover and keep photo records for compliance control. In addition, water bowser is arranged for road washing along Sha Tau Kok Road adjacent with our vehicle egress regularly."	
COM-2022-09-01	青山公路近燈柱EA2139 (ND/2019/01 , ND/2019/05)	1st September 2022	Complaint received by EPD on 1 Sep 2022 and forwarded to ET on 2 Sep 2022, "投訴土木工程署，環保署監管不善，大量黃泥水從地盤流入附近河流，影響生態. 地點:青山公路近燈柱EA2139".	Investigation was conducted by contractor and reply as follow: "A soil storage area was handed over from ND/2019/01 to ND/2019/05 on 18 August 2022. As this is a new area just possessed about 2 weeks before the date of this complaint, site preparation and setup such as wheel washing bay, temporary drainage system, wastewater treatment facility etc. were still undergoing. Some temporary measures were provided in place for preventing runoff into the adjacent public drainage system. During the site preparation and setup works, it was found that there is a pipework by others outside C5's site which intermittently discharges muddy water into the surface drainage and suspected the complaint is caused by this. Contractor of C1 also provided certain information as follow: "Portion 1e (next to the said area) which is a temporary storage area with no major construction works will be carried out at such portion. The grey water pipe which is	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				belongs to other contractor nearby and muddy water discharge into the surface drainage was occasionally observed. We suspected the complaint is caused by this. Few water pipes were identified at the north sides near the interface of other contractor." From 5 Sep 2022, the weekly environmental inspection of C5 with Environmental Team (ET) will cover this area for regular identification of any deficiency in environmental management.	
COM-2022-09-29	Construction site nearby Dills Corner Garden Blk 5 (ND/2019/02)	29th September 2022	Complaint received by EPD on 29 Sep 2022 and forwarded to ET on 30 Sep 2022. Complaint detail is as follow: "石仔嶺花園第五座投訴工程噪音滋擾。我們不知承辦商工程，請幫忙跟進。謝謝！"	Joint inspection for the issue was conducted by AECOM, EPD and Contractor on 29 September 2022. Installation of sheet pile by Vibration Hammer was in progress during the inspection. Considering the founding during inspection and in order to quantify the noise nuisance made by related works, noise monitoring around Portion 2 had been conducted on 30 September, 3 and 5 October 2022(AM and PM periods) by Contractor with AECOM. Result shown that all noise levels are lower than the standard (75dB(A)). But the traffic condition has been considered as an influencing factor. Based on the findings, no noise exceedance is predicted to be found at NSRs. Several mitigation measures have been taken to alleviate the impact made. Noise screen has been erected along the fencing at Portion 2. Moreover, noise generation works including installation of sheet pile will be suspended at Portion 2 during 11:00-14:00 of working day. Environmental	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				promotion is given to site staff to increase their awareness of environmental protection.	
COM-2022-10-06	Fanling On Lok Tsuen near lamp post EB1339" (ND/2019/05)	7th October 2022	Complaint received by EPD on 6 Oct 2022 and forwarded to ET on 7 Oct 2022. "近電燈柱 EB1339 近麻芬河，有一大型建天橋工程，星期日和假期幾十名工人正在開工，工作間大型鐵板聲炒耳，工人大聲叫囂，還開擴音器播歌.....使附近寧靜的安樂村、麻芬村、塘坑村和郊遊人士不安寧。"	Based on the Contractor's internal Permit-to-Work (PTW) System for restricted hours works, there was no works carried out at Pier C4-01 on recent Sundays or public holidays where is located near lamp pole EB1339 since September 2022. The holiday works at Pier C4-02 which are further away from the aforesaid lamp pole were carried out on 04/10/2022 in accordance with the CNP ref. GW-RN0551-22 granted by EPD. The works involved housekeeping and scaffold erection without any Powered Mechanic Equipment (PMEs). Therefore, the possible cause of the incident might be the work at Pier C4-02 on 04/10/2022. But the scaffold erection involved prescribed construction work in non-Designated Area was carried out with fully compliance with the valid CNP. Therefore, it might conclude that there was no any non-compliance issue. Nevertheless, the Contractor have conducted specific training to relevant site supervisors to remind workers to refrain from using loud speakers/playing loud music for works during restricted hours and to ensure keep the restricted hours works as quiet as possible, if any, and will install sound absorbing materials for the concerned works.	Closed
COM-2022-10-09	Portion 5 (ND/2019/02)	17th October 2022	Complaint received by EPD on 13 Oct 2022 and forwarded to ET on 17	As mentioned by EPD, the construction site is near Shek Sheung River. The complaint location	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
			Oct 2022. The complainant alleged the captioned Project of "有關上水石上河有地盤直接排放污水落河事宜 2022 年 10 月 9 日 地盤直接排放污水落河"	may be Portion 5 of project site. Joint inspection for the issue was conducted by EPD, AECOM and Contractor on 14 October 2022. According to the record of construction site, no work was arranged on 9 Oct 2022. Subject to the comments made by EPD staff during the site inspection, several mitigation measures have been taken to enhance the water pollution control performance. Contractor had arranged a wastewater treatment tank to replace the existing tank on site to improve the treatment performance and one more sedimentation tank is introduced to increase the detention time. Moreover, all hoses related to the wastewater transportation have been removed from the slope near Shek Sheung River. Also, water discharge has been suspended for the facilities enhancement. Contractor enhanced the routine checking and maintenance of wastewater treatment facilities including cleaning and replacing of tanks. Posters of mitigating adverse environmental impacts had been fixed at Portion 5 to increase workers' environmental awareness. Training has been provided for site staff. Based on the findings of investigation, CW-KL JV enhanced water pollution control to reduce nuisance to the environment. Environmental promotion is given to site staff to increase their awareness of environmental protection.	
COM-2022-10-18	安樂村新界蔬	28th October 2022	EPD received a complaint (EPD ref: N07/RN/00022664-22) regarding	Since the works areas adjacent to North District Temporary Wholesale Market (北區臨時農	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
	菜批發市場旁 (ND/2019/05)		water pollution in "construction works of the Kwu Tung North new development area of NENT Project" on 18 October 2022 and forwarded to ET through E-mail on 28 October 2022 and ET transferred to JV on the same day. The complaint alleged: "投訴安樂村新界蔬菜批發市場旁有人私自破壞污水渠並把污水接駁至麻笏非法排放污水，投訴人表示親眼見到涉事人員鑿爛污水渠，具體位置會後續來電補充附近的燈柱號碼，又表示部門跟進時如需要具體位置亦可直接聯絡查詢人。"	產品批發市場) are Portion I and Portion II, the following investigation are focusing on these two works area locations. 1. Site activities at Portion I and Portion II; In response to the complaint, "sewerage pipe being damaged and connected to Ma Wat River" is not observed on-site. There were substructure construction works which did not generate wastewater in Portion I and II. 2. Preventive measures for pollution control; 2 nos. of wastewater treatment facilities have been setup and operating for works area in portion I & Portion II in the concerned period. 3. Latest discharge monitoring results; The water quality of the discharge from the Site have been monitored according to the granted discharge licence ref. WT00036996-2020. Discharge qualities are regularly monitored and tested by HOKLAS accredited laboratory. The results show all discharge samples are complying with discharge standards outlined in discharge license, test results of discharge sample in concerned areas which were submitted to EPD. 4. Any possible source of muddy discharge to induce the captioned incident; No wastewater generating activities were conducted at Portion I and II on 18 October 2022. Wastewater (if any) from all construction activities is properly collected, treated and	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				monitored. Based on the above findings, it is concluded that the complaint was not related to the Contract. Contractor will continue daily monitoring on our site condition and visual check discharge qualities against with standard solution of suspended solids (30 mg/L stipulated in licence condition) in order to get rid of any water pollution to the river. In addition, Contractor will regularly conduct morning briefing and tool-box training to the frontline for keeping refresh their awareness on water pollution control.	
COM-2022-10-31	near Po Lau Road, Kwu Tung (ND/2019/01)	31st October 2022	EPD received a complaint with ref: N07/RN/00024008-22 on 31 October 2022 and referred the complaint to ET. Description: A complaint referred from EPD regarding dust impact near Po Lau Road, Kwu Tung. The complaint alleged: "古洞開發區波樓路新大樓附近有路面平整工程, 早上九時多有儲泥及卸泥活動, 吹起沙塵, 影響駕駛安全"	The suspected complaint location was Portion 1b. According to the records of Hong Kong Observatory on 31 October 2022, typhoon signal number 1 was hoisted and the local winds were generally strong. 1. Weekly environmental walk and EPD ad-hoc inspection was carried out on 01 November 2022 morning, it was reminded that the frequency of watering shall be increased under strong wind condition. 2. Two water browsers were deployed for regularly watering of main haul road. 3. Mist cannon was provided on site for dust suppression. 4. Manual water spraying was provided to maintain site condition in a damp condition. 5. Once the level of stockpile reached the formation level, hydroseeding was applied.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				6. Dust monitoring was carried out at KTN-DMS4(B) on 21 Oct 2022 and 27 Oct 2022, no exceedance was recorded. 7. Cover the slope surface with impervious sheeting. 8. Addition water browser with capacity 20,000L was deployed on site on 01 November 2022. 9. Hydroseeding to exposed soil once the formation level reached. 10. Keep closely monitoring on the concerned area.	
COM-2022-11-10	Construction site near Shek Wu San Tsuen North (ND/2019/04)	10th November 2022	EPD received a complaint with ref: N07/ RN/00025077-22 on 10 November 2022 and referred the complaint to ET and IEC on 2 December 2022. The complaint alleged: "White smoke was emitted from an operating crane (blue/white color) in the construction site of Fanling North New Development Area, Phase 1: Fanling Bypass Eastern Section nearby Shek Wu San Tsuen North."	There was a crane in blue/white color working in the area nearby Shek Wu San Tsuen. According to Contractor's record, the crane has stopped works since 10 Nov 2022 afternoon for the preparation of removal from site. No white or dark smoke emission has been observed on 10 Nov 2022 morning. The crane was removed on 12 Nov 2022. Photo record shown that the blue/white crane was totally removed on 14 Nov 2022. Based on the findings of investigation, no emission of white smoke was observed on the date of complaint. The Contractor would keep monitoring the plant whether there are dark smoke emission and the operation would stop at once if dark smoke emission has been observed, by comparing with the Ringelmann Chart.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
COM-2022-12-07	Construction site near Lamp post VD6513 (ND/2019/05)	7th December 2022	EPD received a complaint with ref.: N07/RN/00028143-22 on 7 Dec 2022 and referred the complaint to ET and IEC on 14 Dec 2022. The complaint alleged: "本人住北區，習慣晨運，目睹近來北區太多基建工程，已經很多污染，環保署有沒有積極監察? 本人於星期日(27.12.2022)，行經粉嶺龍山近塘坑村附近，近電燈柱VD6513，興建中的橋跨行人路，高空掉下釘子在行人路上，掉下發泡膠並隨風吹散各地和麻芳河流中，請環保署查看是否有物質? 做成污染。附上圖。另外，水馬大部分欠蓋存積水。 高空掉建築物很危險"	The investigation results are as follows: 1. The works area vicinity to lamp post VD6513 is Piers C4-03. There are viaduct construction works above the concerned lamp post. 2. Expanding foam and tiny metal nails found over there were both non-hazardous and non-harmful substance. It is suspected that they were some remaining left behind from previous foundation construction works or by the public due to there is a public area currently. Although the material might be not from the current works, to maintain good neighborhood relationship, the Contractor have promptly followed up as follow: A. Cleaned up the expanding foam and metal nails, B. Tightened and securely fixed the safety net, C. Sealed up those water-filled barriers without lids and their damaged parts. JV conducted joint site inspection with EPD inspectors at the concerned area on 13 Dec 2022. EPD satisfied with the above follow-up actions taken for the complaint.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
COM-2023-01-12	Sheung Yue River (ND/2019/01) (ND/2019/02)	12th January 2023	As reported by DSD, DSD had a joint site inspection, and observed large amount of muddy runoff was outflowing from the construction sites at Kwu Tung North into Sheung Yue River, which divided into 3 main sources of muddy runoff.	Due to the complaint location, there will be two contractors conducted the investigation as below. <u>From Contract Number (ND/2019/01):</u> Investigation was conducted by contractor and reply as follow: Investigation Findings: 1. The suspected complaint location was between Portion 7 and the outlet of Sheung Yue River. 2. According to the site records, activities include trimming and compaction of formation level and installation of lamp post were conducted. 3. EPD staff carried out investigation on 16 January 2023 and two water samples were collected. 4. An immediate checking by supplier was arranged to check the efficiency of the wastewater treatment plant. 5. During the checking, it was observed that the chemical dosing system was found clogged due to undissolved chemical, and it has been repaired. 6. The chemical was found lumping due to recent high relative humidity. 7. According to the records of Hong Kong Observatory on 10-15 January 2023, the relative humidity was reached to at least 94%. 8. An inspection was carried out with ET, it was observed that a covered u-channel was found damage and mud was accumulated at the bottom of the channel. Wastewater discharged from wastewater treatment plant may mixed with the	Closed

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				accumulated mud and cause the wastewater become turbid / muddy. 9. Visual comparison was conducted with ET on17 January 2023, the colour of the glass bottle collected from wastewater treatment plant looks clear when compare with the standard solution. 10. During the ad-hoc inspection on 27 January 2023, inadequate treated wastewater discharge from nearby private construction site was observed. Mitigation Measures and Follow-Up Actions: 1. Properly store the chemical with covered tarpaulin to prevent lumping; 2. A refresher training for WWTP operation and maintenance by supplier was provided to foreman and designated workers; 3. Repair the damaged u-channel; 4. Arrange to clear the accumulated sludge in the channel; and 5. Keep closely monitoring such as daily visual inspection on the WWTP and clear the accumulated sludge in the channel. <u>From Contract Number (ND/2019/02):</u> Investigation was conducted by contractor and reply as follow: As mentioned by EPD and DSD, the finding was happened at the upstream of Sheung Yue River and the project site falls along the downstream of	

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				complaint location. 1. Joint inspection for the issue was conducted by EPD and DSD on 11 January 2023. 2. According to the record of construction site, no work was arranged on 12 January 2023 at Portion 1 along Castle Peak Road. Formwork, steel work and welding were carried out along Sheung Yue River. Site inspection and discharge sampling by contractor itself was conducted 12 January 2023 along all of the functioning wastewater treatment facilities along Sheung Yue River and no muddy discharge was found. The condition of outfall along rivers were also checked. 3. According to investigation by contractor 12 Jan 2023, no muddy discharge from our project was observed. Preventative measures have been provided to further reduce the risk of illegal discharge. Silt Curtain has been installed along outfall and workfront with potential risk of polluted runoff has been installed sheet pile and canvas was provided to intercept runoff due to rainwater. 4. Checking and maintenance of wastewater treatment facilities have been carried out by supplier before the joint inspection by EPD and DSD. 5. Training on proper wastewater treatment and discharge has been provided for site staff to raise the awareness of site staff at all levels.Conclusion: Based on the findings of investigation, CW-KL	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				JV enhanced water pollution control to reduce nuisance to the environment. Environmental promotion is given to site staff and workers to increase their awareness of environmental protection.	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
COM-2023-02-03	a construction site near On Lok Garden at On Fuk Street, North District. (ND/2019/05)	3rd February 2023	EPD received a complaint with ref.: N07/RN/0002434-23 on 29 Jan 2023. Complaint detail: Suspect some closeby construction sites flow the waste water into the river that potentially kill the fish inside the river.	The investigation result as follows: Since the concerned area near On Lok Garden is Portion V, the following investigation is focusing on portion V and its nearby works area (portion VI & VIII) from upper stream of Ma Wat River. 1. Site activities at concerned areas; There were superstructure construction works (i.e., construction of pier and portal beam and segment) which did not generate wastewater in Portion V and its nearby works area from upper stream of Ma Wat River. 2. Preventive measures for pollution control; 19 sets of wastewater treatment facilities have been setup and operating for all works area for Contract No. 5 which covering all of the concerned works areas, 3. Latest discharge monitoring results; The water quality of the discharge from the Site have been monitored according to the granted discharge licence ref. WT00036996-2020. Discharge qualities are regularly monitored and tested by HOKLAS accredited laboratory. The results show all discharge samples are complying with discharge standards outlined in discharge license, test results of discharge sample in concerned areas which were submitted to EPD.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				4. Any possible source of muddy discharge to induce the captioned incident; No wastewater generating activities were conducted at Portion V in concerned period between 06:48 to 06:53 on 19 January 2023. Wastewater (if any) from all our construction activities is properly collected, treated and monitored. During joint inspection with EPD inspectors and the Supervisor as well as the contractor on 31 January 2023, off site wastewater sources from other discharge pipes at upper stream of Ma Wat River are observed which are highly potential contributing to the incident.	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
COM-2023-02-08	Construction site near Dills Corner Garden (ND/2019/01)	8th February 2023	EPD received a complaint with ref.: N07/RN/00003315-23 on 6 Feb 2023. Complaint detail: 投訴波樓路石仔嶺花園裏面的打樁工程噪音	The investigation result as follows: 1. The suspected complaint location was Dills Corner Garden where few contracts which included ND/2019/01, ND/2019/02, ND/2019/05 and private construction site were carried out construction works nearby. 2. There was no foundation work carried out at or near Drills Corner Garden under ND/2019/01. 3. The nearest site area Portion 1e was a temporary storage area for construction material where no construction works carried out. 4. However, piling work was identified next to the Drills Corner Garden which was not belonged to ND/2019/01. 5. According to the EPD records, there were two piling permits granted to other contactors near the Drills Corner Garden which were not under ND/2019/01. 6. As there was no foundation work carried out under ND/2019/01, no mitigation measures or follow-up actions were proposed.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
COM-2023-04-03a	The Soil Stockpiling area at Kwu Tung near L/P: GD5847 (ND/2019/05)	3rd April 2023	EPD received a complaint with ref.: N07/RN/00008714-23 on 3 Apr 2023. Complaint detail: 投訴上水古洞波樓路石仔嶺花園隔離地盤的泥車出馬路時, 帶泥水往馬路	The investigation result as follows: 1. There are many construction sites in the concerned area adjacent to lamp post GD5847 using the access road. Thus, concerned dump trucks and their impacts may not be relevant to JV. 2. There are stockpiling works for the temporary storage, internal transferring and sorting of inert materials in the concerned area. 3. To prevent any potential impacts from the works, sufficient resources of manpower and facilities are allocated for the implementation of mitigation measures including wheel washing and water pollution control. 4. Resources allocation is listed as below, (a) Four full-time workers and one supervisory staff (b) Wheel washing bay supplemented with water pipes (c) Proper temporary drainage system (cutoff drain, water pumps, sump pits, bunding, etc.,) (d) One set of wastewater treatment facilities (e) Fully hard paved haul road Based on the above findings, it is concluded that the complaint was not related to the Contract. JV will continue allocating sufficient resources and daily monitoring of their site conditions for proper pollution control.	Closed
COM-2023-04-03b			EPD received a complaint with ref.: N07/RN/00008728-23 on 3 Apr 2023. Complaint detail: 投訴古洞發展區地盤的泥車頭，出入時沒有清洗乾淨，將泥漿帶出馬路，他今天大約14:00，發現有多部泥頭車都此問題，泥漿由青山公路古洞段，一直帶到往元朗的高速公路，現要求跟進及回覆		

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
COM-2023-08-09	Construction site next to Tong Hang near L/P No. VD6513 (ND/2019/05)	9th August 2023	EPD received a complaint with ref.: N07/RN/00018620-23 on 4 Aug 2023. Complaint detail: "本人於今個星期日(30.07.2023), 再次行經粉嶺龍山近塘坑村附近, 近電燈柱 VD6513 附近, 發覺強烈油積味, 相信有機器流油, 同時亦發覺油積連水流至行人路, 使路濕滑, 一部份油流入河流"	The investigation result as follows: **1. Site activities at Piers C4-03** The works area vicinity to lamp post VD6513 is Piers C4-03. Superstructure works for viaduct construction were conducted above the concerned lamp post. It was precast segment erection works (only involve lifting, transporting and tendoning) and no operation of heavy machinery/plants was conducted at ground level during the complaint period. No wastewater/chemicals were generated in the surrounding works. **2. Preventive measures for wastewater or chemical leakage/overflowing;** There were plenty of preventive measures for wastewater or chemical leakage/overflowing from site listing as below: - All ground area were totally hard paved - Edges of all site boundaries were entirely enclosed and embanked - All openings of segment structures were fully closed - Chemical waste storage cabinet was provided in the concerned area for storage of chemical waste Based on the above findings, it is concluded that the complaint was not related to the Contract. JV will continue daily monitoring on our site condition and the nearby drainage and river condition to prevent any water pollution. In addition, JV will regularly conduct morning briefing	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				and tool-box training to the frontline for keeping refresh their awareness on water pollution control.	
COM-2023-08-25	Ma Tso Lung Stream, near L/P No. VD7574 (ND/2019/01)	25th August 2023	EPD received a complaint with ref.: N07/RN/00020185-23 on 22 Aug 2023. Complaint detail: "I am writing to express my deep concerns about the water pollution in Ma Tso Lung Stream, which is a result of the illegal dumping of construction waste. Following heavy rain, the Advance Site Formation and Engineering Infrastructure Works at Kwu Tung North and Fanling North New Development Areas have significantly impacted the upstream of the Ma Tso Lung Stream, specifically at the location marked by government lamppost VD7574. For further clarity on the location, you can refer to: (https://www.landsd.gov.hk/doc/en/nda/ktnnda/D_KTN_1A_BW_SD_compress_1.pdf) Due to the vast amounts of construction waste, the stream's drainage has been severely obstructed. This was particularly evident after last week's Special Announcement on Flooding in the Northern New Territories. The	The investigation result as follows: - The suspected complaint location was found at Ma Tso Lung Stream, about 200 meters outside the site boundary of Kwu Tung North New Development Area. - BKREJV carried out investigation accompanied by AECOM RSS on 31 August 2023, no construction activity was observed nearby. - During the investigation, no illegal dumping was identified upstream. The water of the stream looks clear, therefore, pollution downstream (complaint location) generated from the project is unlikely. The C&D material on the stream believed accumulated by nature. - No accumulation of C&D waste along the upstream of Ma Tso Lung Stream was observed during the investigation. The stream is free from blockage. - By comparing the photos from complainant provided and the photos taken on 31 August 2023, there are no major differences observed. - As the mentioned location which is outside the site	Closed

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			stream's blockage from the waste has prevented efficient water drainage, posing a serious threat to the lives of the residents living by its banks. It's noteworthy that the KWU TUNG NORTH OUTLINE DEVELOPMENT PLAN No. D/KTN/1 (https://www.pland.gov.hk/pland_en/info_serv/tp_plan/adopted/ES/D_KTN_1_en.pdf) had previously emphasized the importance of the Ma Tso Lung Stream. It serves as a crucial corridor for numerous fauna of conservation importance, including the Three-banded Box Terrapin. The stream, along with its surrounding riparian vegetation, has been designated under the "Green Belt" zoning for protection in the Outline Development Plan (ODP). The recent infrastructural developments have gravely affected this ecosystem and the habitat of the rare Three-banded Box Terrapin. In addition to the aforementioned concerns, the engineering works have significantly reduced surface water flow. As a result, the Ma Tso Lung Stream faces not only pollution but also the alarming threat of becoming a dry streambed. This drastically impacts the ecological balance and endangers the	boundary, no follow up action is proposed. Based on the above findings, it is concluded that the accumulated C&D material on the stream likely accumulated by nature instead of illegal dumping by project. It is concluded that the complaint is not project related. However, BKREJV are responsible to monitor the condition alongside the boundary of construction site regularly.	

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			myriad of biodiversity dependent on this vital water source. ... Enclosed are comparative photos from July to August 2022 juxtaposed with the current state in August 2023, capturing the stark degradation of the stream over a year."		
COM-2023-09-04	Construction site near the junction of Sha Tau Kok Road and Ma Sik Road (ND/2019/04)	4th September 2023, 7th September 2023	EPD received a complaint with ref: N07/RN/00021148-23 on 4 Sep 2023. Complaint detail: "沙頭角公路與馬適路交界的地盤排放泥水到附近河道造成污染" Supplementary detail received by EPD with the same ref on 7 Sep 2023. Complaint detail: "在 7/9/2023 下午,該地盤再次排出大量黃泥水"	The investigation result as follows: For the complaint received on 4 September 2023, the cause of the silty water entering Ma Wat River was mainly due to the malfunctioning of wetsep, which was damaged due to electric short during the adverse weather, no.1, no.3, no.8, no.9 and no.10 and 5 hours of amber warning signal, caused by Super typhoon Saola on 1 and 2 September 2023. The wetsep was repaired immediately after Saola left and resumed the function on 4 September 2023 afternoon and no more silty water was observed entering Ma Wat River. The water quality observed on 5 September 2023 was normal and complied with the legal requirement of discharge licence. For 7 September 2023, the major cause of the incident was the accumulated soil at the existing outfall overflow to the river due to the continuous rainy weather, which was not discharge from the construction site.	Closed

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COM-2023-09-13	Open water channel within the project site of KTN NDA phase 1 (ND/2019/01)	4th September 2023, 21st September 2023	EPD spotted overflow of muddy water from an open water channel within the project site of ND/2019/01 to the nearby nullah at the site boundary which would eventually discharge into Sheung Yue River. During the EPD follow-up site inspection on 13 Sep 2023, similar overflow of muddy water still observed. On 21 Sep 2023, a joint site inspection was held.	The investigation result as follows: According to the record of Hong Kong Observatory, Super Typhoon SAOLA signal 10 was hoisted from 1 September 2023 to 2 September 2023. Amber Rainstorm Warning Signal was recorded from 19:45 of 1 September 2023 to 01:00 of 2 September 2023. Special Announcement on Flooding in the Northern New Territories was hoisted from 22:05 of 1 September 2023 to 04:30 of 2 September 2023 and the total rainfall from 1 to 2 September 2023 is nearly 180mm. It was observed that the capacity of the existing 2 no. of wastewater treatment system (AquaSed) provided for the treatment of the permanent rectangular channel (RC3) was insufficient. The permanent rectangular channel (RC3) which has been serving as temporary buffer zone for temporary storage of collected surface runoff which included wastewater generated from other interfacing contractors. It was observed that muddy water overflowed from the outlet of RC3 to the concerned discharge point. It was noted that various nearby interfacing contractors discharged their construction wastewater to the same concerned discharge point via RC3. Traces of muddy site runoff and yellowish sediments	Closed

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				were spotted on the bare surface outside RC3. Traces of yellowish sediment was observed in water channel out of the project site just next to RC2. The capacity of pumping system at RC2 seems insufficient. The storage pond capacity at Northern Portion seems inadequate to collect surface runoff generated from stockpiles area. The U-channel near Ma Tso Lung Road was filled with soil thus reduce the design capacity of water collection. Follow-up actions: - One additional water pump (increased from 2 to 3 in total) was deployed at RC3 and one water pump (increased from 1 to 2 in total) was deployed at RC2 respectively. - The open stockpile at northern portion was properly treated by hydroseeding. - Enlarge the depth of sump pit at Northern Portion from 1m to 2m. Storage pond was properly maintained by desilting regularly. - The blocked U-channel and cut-off drain near Ma Tso Lung Road was desilted generation of muddy surface runoff. - Sand bag bund with geotextile was placed properly and the bottom of the hoarding was sealed along the site boundary near Ma Tso Lung Road to prevent muddy water washed out to the	

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				lower elevated of the site to public areas - Regularly desilting of rectangular channel (RC2 and RC3 to maintain the capacity. - Demarcate the discharge pipes by labelling which was belongs to BKREJV. - Temporary drainage management plan at portion 1c was enclosed for reference.	
COM-2023-11-08A	Construction site near Tong Hang (ND/2019/05)	8th November 2023	EPD received a complaint with ref: N07/RN/00026110-23 on 2 Nov 2023. Complaint detail: "投訴人於 2023/11/01 23:18:56 留言投訴粉嶺塘坑村對出的地盤最近晚上均會搬運大型物料入地盤，但搬運過程發出巨大噪音，要求環保署跟進。因投訴人沒有留聯絡資料，CSC 未能了解更多詳請。"	The investigation result as follows: The location of the complaint likely to be the storage yard which is being used partly by a business operator (CTC-container storage) and segment storage for this contract. According to our Permit-to-Work (PTW) application records, there was no physical works scheduled at the storage yard during the complaint period. Based on the above findings, it is concluded that the complaint was not related to the works. In case of works during restricted hours, the contractor will apply a Construction Noise Permit, works during restricted hours will only be carried out when a valid CNP is in force. In order to minimise the noise impact to the noise sensitive receiver, temporary noise barrier was erected along hoarding facing the noise sensitive receiver. The	Closed

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				installation of temporary noise barrier was completed on 13 November 2023.	
COM-2023-11-08B	Construction site near Junction of Ma Sik Road and Sha Tau Kok Road (ND/2019/04)	8th November 2023	EPD received a complaint with ref: N07/RN/00025564-23 on 26 Oct 2023. Complaint detail: "本人再次見到粉嶺馬適路-沙頭角公路地盤晚上 9 點後仍然工作 地盤內有工程車和多名工人鋪木地板,其間有人多次使用切割機鋸斷木板,造成巨大噪音,而自過往多月本人多次投訴後,該地盤仍然沒有任何改善"	The investigation results are as follows: Having reviewed on internal record and permit-to-work system, no work activities were scheduled and taken beyond 7 pm from 11 September to 31 October 2023. The supplementary information including statements from relevant representatives, the foreman in charge of the concerned area, representative of the sub-contractor from Hung Wing Steel Engineering Limited conducting construction works of CLC; the site diaries recorded the scheduled works and working period during weekdays within the aforesaid period; The work permits issued within the aforesaid period; and the valid CNP. The Contractor claimed that they had a comprehensive noise control system for environmental protection in place which has been effective so far. The works in restricted hours are well organized and under control with the work permit system. Adequate mitigation measures are also provided for any work in restricted hours. In conclusion, according to the above, all scheduled works were completed by 19:00 from 11 September to 31 October 2023 according to their records. All major works were substantially completed before the soft opening of the Community Liaison Centre on 26	Closed

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				October 2023, except the remaining construction of the fire service tank and the associated water pipes and fittings installation are in progress during normal working hours, for example, no activities during restricted hours, to be completed before FSI inspection tentatively scheduled on 20 December 2023. No potential noise impact during restricted hours would occur.	
COM-2024-01-05A	Construction site near On Lok Garden (ND/2019/05)	5th January 2024	EPD received a complaint with ref: N07/RN/00000530-24 on 5 Jan 2024. Complaint detail: “投訴人指粉嶺安樂花園附近 AECOM 地盤, 在 12 月 31 日公眾假期開工, 她去地盤問, 不見有許可證貼出, 她問職員, 職員再問主管, 但仍未能出示許可證, 而下星期日又開工, 現要求環保署跟進及回覆及查証是否真有許可證.。”	The investigation result as follows: Referring to the Permit-to-Work (PTW) records, JV has issued a permit-to-work ref. PTW-20231201-1 V0, see Appendix I, to their frontline to work in accordance with a valid CNP ref. GW-RN0977-23 Zones XIV-XV for lifting works on 31 Dec 2023. Copies of the CNP have been displayed at site entrances to the public and there is one near On Lok Garden since it is with effect from 1 Oct 2023. For every new CNP copy display, JV will inform all workers through WhatsApp by photos and specific training/morning briefing. JV has also been presenting the licence boxes location which contains CNP copies at every monthly Site Environmental Committee (SEC) meeting. JV had a joint inspection with EPD inspectors on 10 Jan 2024, found that JV was displaying valid and relevant CNPs hardcopy and softcopy by QR code at site entrances. The worker stationing at the site entrance nearest On Lok Garden could tell the CNP	Closed

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				display location also. EPD had no adverse comment to JV.	
COM-2024-01-05B	Construction site near One Innovale and Power Substation at Ma Sik Road (ND/2019/04)	5th January 2024	EPD received a complaint with ref: N07/RN/459-24 on 5 Jan 2024. Complaint detail: "投訴 One Innovale 旁邊電力公司由 12 月 20 日起除公眾假期外每日由早上 8 時到傍晚 6 時發出高頻噪音，十分滋擾，要求環保署盡快跟進及回覆。"	The investigation result as follows: The high frequency sound should be the warning signal from the safety sensor installed on the moving plants recently, for alerting the workers and operators of the plants aware of their surroundings to avoid any accident, starting from 18 December 2023. This safety measure is implemented due to the recent fatal accident happened in other construction site. The sensor would only be triggered when objects are detected within the detection zone and high frequency warning signal would be generated to alert the workers and operators that someone or something has been entered the moving zone. The sensors are only turned on during the operation of the plants and turned off after the working hours. The foreman would check the status of the sensors to ensure they are turned off to avoid false alarm out of working hours. The area if planned to be a danger zone would be cleared as much as possible without objects or materials, only essential manpower is allowed to enter the danger to assist the operation of excavation works and lifting works. The other workers are not allowed to	Closed

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				enter the danger zone at any circumstance. Notices has been sent to residents, including Green Code, Belair Monte, One Innovale and the Lung Yeuk Tau Representative, explaining the purpose of installing the safety sensor and the necessity of the warning signal to the workers on site.	
COM-2024-02-02	Construction site near Junction of Ma Sik Road and Sha Tau Kok Road (ND/2019/04)	2nd February 2024	EPD received a complaint with ref: N07/RN/3492-24 on 2 Feb 2024. Complaint detail: "2024 年 1 月 31 日晚上 到 2024 年 2 月 1 日清晨，該地盤發出大量及持續的聲音，好似柴油發電機運作產生的聲音，非常擾民，完全無法忍受。要求政府相關部門跟進處理。"	The investigation result as follows: The Contractor claimed that they have have no PMEs operated after 19:00 on 31 January 2024 to 07:00 on 2 February 2024. No work permit has been issued for works in the mentioned periods, hence, no works have been conducted during restricted hour. They claimed that they are using electric supply from CLP and no generators are required at this area of the site (Pak Shing) which is near One Innovale, and photos were provided showing there are no generators at the area around. Foremen checks the site condition including the plants and other PMEs after operation and they ensure turning off every PMEs and plants on site before leaving. In conclusion, according to the above findings, the electric supply is provided by CLP and generators are not required. The photo record showing that no generators are placed on site. No PMEs and plants were left operating during the mentioned period.	Closed

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				It is believed that the noise in the video was not generated from the PMEs or plants on their site. No works and operation of PMEs and plants at the site area and they were ensured to be turned off after the operation before 19:00.	
COM-2024-03-04	Construction site near Ma Sik Road (ND/2019/04)	4th March 2024	EPD received a complaint with ref: N07/RN/6289-24 on 3 Mar 2024. Complaint detail: "本人 XXX 居住於粉嶺馬適路 1 號逸峯... 對面地盤（即將興建之批發市場地盤位置附近），近一個月內由早上九時至下午六時，不斷有咇咇咇之聲響，疑似地盤內信號員所發出的信號聲響，十分滋擾，家中有老人及幼兒，實在不勝其擾，由於致電相關地盤承辦商電話均無人接聽，望貴署能跟進地盤噪音滋擾。"	The investigation result as follows: The Contractor claimed that the "bibibi" sound should be the warning signal from the safety sensor from an excavator and a crane, which are closest Green Code. The safety sensors were installed on the moving plants for alerting the workers and operators of the plants aware of their surroundings to avoid any accident. This safety measure is implemented due to the recent fatal accident happened in other construction site. The safety sensor would only be operated when the plants are in use and turned off after the working hours. The sensor would only be triggered when objects are detected within the detection zone and high frequency warning signal would be generated to alert the workers and operators that someone or something has been entered the moving zone. The Contractor claimed that they have checked the hotline record, and they have answered all the phone in enquiry and will call back those missed call but no relative complaint for this case. Notice has been sent to residents, including Green Code, Belair Monte, One Innovale and the Lung Yeuk Tau Representative, explaining the purpose of installing the safety sensor	Closed

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				and the necessity of the warning signal to the workers on site. The Contractor have implemented measure to reduce the sound pressure level of the warning signal by screening with adhesive paper. The sound pressure level has been reduced by about 10 dB(A) by measurement and doesn't affect the function for alerting the people and the operator.	
COM-2024-03-19	Construction site near Ma Sik Road (ND/2019/04)	19th March 2024	EPD received a complaint with ref: N07/RN/7600-24 on 17 Mar 2024. Complaint detail: "在沙頭角公路龍躍頭段，現場有兩個大型施工地盤。 一處為住宅逸峰對面，馬適路住宅 one innovalue 旁邊。一處為公路對面，安居街。 每逢車輛經過，空氣中肉眼可見塵埃，路人經過衣服上滿佈一點點黑色的塵，想問問該兩個地盤有否做做防止塵埃揚起的預防措施。因為不見任何帆布，只有水馬圍欄。"	The investigation result as follows: The Contractor claimed that various measures have been applied regularly and properly to reduce dust from spreading outside the construction site. The effectiveness would also be reviewed by foremen on site. The road also affected by the dirt from the other vehicles travelling on Ma Sik Road and Sha Tau Kok Road. The dirt found on those roads is black in colour and powdery. The Contractor claimed that those black dirt was only found on the water barrier adjacent to both roads but not the other site boundary. The dirt in black and powdery might come from other vehicles travelling on both roads but not from the construction site. The Contractor will keep ensuring the measures for dust suppression to be effective and keep monitoring the condition of the site of enhancement of measures is needed.	Closed

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COM-2024-04-09	Construction site near Ma Sik Road (ND/2019/04)	9th April 2024	EPD received a complaint with ref: N07/RN/9715-24 on 8 April 2024. Complaint detail: "I am writing to express my deep concern and dissatisfaction regarding the ongoing construction activities near Fanling Ma Sik Rd, specifically at 8 Ma Sik Rd. I am a resident in close proximity to the construction site, and I have been experiencing significant issues related to dust and sand pollution caused by the construction activities. Over the past few weeks, I have noticed a consistent and substantial amount of dust and sand accumulating on my balcony and surrounding areas. Despite the construction work being a necessary part of development, it is crucial that appropriate measures are implemented to minimize the negative impact on the surrounding environment and the health and well-being of nearby residents. The primary issue I would like to address is the apparent lack of effective dust and sand pollution control measures at the construction site. It is evident that the construction activities are generating significant amounts of dust and sand, which are subsequently being dispersed into the surrounding residential areas,	The investigation result as follows: The Contractor claimed that various measures have been applied regularly to reduce dust from spreading at the construction site, especially the area adjacent to One Innovale. Excavation and digging were not active recently, the major construction works were rebar fixing, formwork erection and lifting of materials like rebar and formwork, which are considered not dusty construction works. Water wagon has been applied for water spraying on haul road and depressed road; stockpile has been hydroseeded the surface for dust suppression; most of the areas are paved and compacted that dust dispersal is under control; the stockpile temporary stored were being transferred to other work front for backfilling. Contractor will keep ensuring the measures for dust suppression to be effective and keep monitoring the condition of the site if enhancement of measures is needed, including water spraying, wheel washing, covering stockpile with tarpaulin sheet and cleaning whenever necessary.	Closed

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			including my balcony. This not only creates a nuisance but also poses potential health risks, particularly for individuals with respiratory conditions. I kindly request that immediate action be taken by the relevant authorities or responsible parties to address this matter. It is imperative that the construction site adheres to stringent pollution control guidelines and implements appropriate measures to minimize the dispersion of dust and sand. Some possible measures that could be implemented include regular sprinkling of water during digging or excavation activities, installation of dust barriers, and effective covering of loose materials. I urge you to investigate this issue promptly and ensure that the construction site operators are held accountable for their responsibilities in controlling and mitigating dust and sand pollution. Additionally, I would appreciate receiving regular updates on the progress of the measures taken to rectify this situation. I trust that you will treat this matter with the utmost seriousness and urgency it deserves. The health and well-being of the residents in the vicinity should be a		

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			priority, and I sincerely hope that immediate action will be taken to address this ongoing problem."		
COM-2024-04-17	Construction site near Ma Sik Road (ND/2019/04)	17th April 2024	EPD received a complaint with ref: N07/RN/10275-24 on 14 April 2024. Complaint detail: "在 2024 年 4 月 13 日下午，在經過梧桐河河邊,發現 CEDD(中國鐵建)的建築公司將地盤污水排進梧桐河,危害河水及海洋生物,十分過分!"	The investigation result as follows: The Contractor claimed that various measures, bunds and paved slope, have been applied to prevent silty runoff and wastewater is treated before discharging. It is believed that the silty water observed by the complainant was not related to the project. A potential source has been found during investigation at the junction of Kan Lung Tsuen and Ma Wat River. It may be the source of the observation of the complainant. The Contractor will keep ensuring the measures for water quality to be effective and keep monitoring the condition of the site if enhancement of measures is needed, including setting up bunds, adding wastewater treatment plants and paving the slope or placing silt curtain whenever necessary.	Closed
COM-2024-04-26	Construction site near Ma Sik Road (ND/2019/04)	26th April 2024	EPD received a complaint with ref: N07/RN/11478-24 on 25 April 2024. Complaint detail: "粉嶺 One Innovale 旁邊的地盤非法將大量泥水排放到河道 兩張相片分別為 23/4 傍晚和 24/4	The investigation result as follows: The Contractor claimed that various measures, bunds and paved slope, have been applied to prevent silty runoff and wastewater is treated before discharging. According to the photo provided by the complainant, the wastewater treatment facility was functioning well	Closed

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			清晨拍攝, 地盤已通宵排放,造成嚴重污染,請立即採取行動保護環境,阻止違法行為”.	and the water quality for the discharge at that time was not silty. It is believed that the silty water observed by the complainant was not related to the project. The potential source for the silty water observed by the complainant may be due to the residue of silt brought along from upstream after heavy rain. The Contractor will keep ensuring the measures for water quality to be effective and keep monitoring the condition of the site if enhancement of measures is needed, including setting up bunds, adding wastewater treatment plants and paving the slope or placing silt curtain whenever necessary.	
COM-2024-05-06	Construction site near Tong Hang Village (ND/2019/05)	6th May 2024	EPD received a complaint with ref: N07/RN/12113-24 on 2 May 2024. Complaint detail: “保華 CEDD 地盤污水流出 near 塘坑村, North District, NT”	The investigation result as follows: Major site works conducted at site area near Pier C4-04 was bridge works, i.e. parapet installation and bridge segment transportation, on bridge deck. Due to the site progress, there was no earthworks conducted on the ground surface at the moment. The ground surface is mainly serving the purpose of precast segment storage, site access and site accommodation. The entire ground surface of the works area had been hard paved since 2021 in accordance with mitigation measure recommended in the Approved EM&A Manual. Rainwater would be drained by gravitational fall along the ground surface by level difference. The entire ground surface of the works area was formed with inclination from highest level at the northern part	Closed

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				to lowest at the site access connecting to the Tong Hang Village Road. After on-site communication with the complainant on 02 May 2024, the following additional measures were provided: 1. An additional temporary drainage channel has been installed. 2. A 200mm concrete bund has been constructed at the area adjacent to the resident as additional protection against potential flooding. The complainant was invited to review the abovementioned extra measures on 06 May 2024 on-site.	
COM-2024-06-04	Construction site near On Kui Street (ND/2019/04)	4th June 2024	EPD received a complaint with ref: N07/RN/13039-24 on 12 May 2024. Complaint detail: "粉嶺安居街附近得利中心十字路口的地盤沒有把工地範圍和公共行人路分隔，泥土飛濺到兩旁公眾路段，污染環境。更不時有重型工程車輛在沒有圍封的情況下橫過行人路，對路人安全構成極大威脅。"	The investigation result as follows: According to the findings of investigation, the photos provided by the complainant was taken after the moving of the excavator toward the work front near On Tsuen Street. At that stage, the access was temporarily closed for the moving of plant that not available for workers due to safety concern, no one would be allowed to move around the excavator until the translocation was finished. Moreover, the access was not opened to public as it was still part of the construction site during the translocation of excavator. The openings showing in the photos provided by the	Closed

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				complainants were for the workers only. The access has been formed properly after the moving of excavator with fencing and sandbags as bund and the silt was cleaned. The complaint was not project related. The Contractor will keep maintaining the condition of the access that to avoid causing the spread of dust and surface runoff.	
COM-2024-07-04	Construction site near Tong Hang Village (ND/2019/05)	4th July 2024	EPD received a complaint with ref: N07/RN/12113-24 on 17 June 2024. This is a follow-up complaint case of COM-2024-05-06 (Same RN no. See above for details) Complaint detail: "關於粉嶺塘坑村地盤「寶華地盤」本月 6 月 15 日落雨，雨水浸到我嘅邊個貨櫃，浸曬。我想係 6 月 15 號早上九點鐘左右啦，要求你幫幫忙，要求係 6 月 15 號早上 9 點 15 分左右後面做條出水渠。"	The investigation result as follows: Due to the site progress, there was no earthworks conducted on the ground surface at the moment. The ground surface is mainly serving the purpose of precast segment storage, site access and site accommodation. The entire ground surface of the works area had been hard paved since 2021 in accordance with mitigation measure recommended in the Approved EM&A Manual. Rainwater would be drained by gravitational fall along the ground surface by level difference. The entire ground surface of the works area was formed with inclination from highest level at the northern part to lowest at the site access connecting to the Tong Hang Village Road. JV and AECOM visited the concerned premises on 20 June 2024 under the complainant's consent and accompany. It was observed that the drainage system of the premises relies on several 2 inches PVC pipes	Closed

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				installed at the bottom of its western wall. Theoretically, rainwater received by the premises could be drained by those PVC drainage pipe by gravity. The adjacent area to the western wall of the premises is a storage yard managed by JV. A concrete temporary drain had been constructed to receive and divert collected rainwater away from the area. From the photograph provided by the complainant, it could be observed that the level of ground along the premises is uneven. The ground level at the eastern side, which is adjacent to the site hoarding, of the premises is slightly lower than that at the western side, where the PVC drainage pipes are installed at. However, topographical survey could not be conducted to verify the observation unless agreed by the owner of the premises. The complainant raised his concern to the project team directly on 15 June 2024. After on-site communication with the complainant on 20 June 2024, the following additional measures were provided: 1. A new 200mm concrete bund has been constructed along the lower ground adjacent to the concerned premises so as to divert rainwater to by-pass the site accommodation area. 2. Temporary drainage has been enhanced by laying extra pipe underground to guide the rainwater to	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				existing discharge point. Water pumps have been set at catchment points as emergency backup during exceptional weather condition.	
COM-2024-08-28	Construction site (ND/2019/04)	28th August 2024	EPD received a complaint with ref: N07/RN/22970-24 on 23 August 2024. Complaint detail: "發生地點: 粉嶺北新發展區第一階段–粉嶺繞道東段 投訴公司/承建商名稱: 大宇–俊和–群利聯營 Complaint detail: .....地盤污水隨便亂排放..... "	The investigation result as follows: Nno improper discharge has been observed on site and the mitigation measures, including the wastewater treatment system, silt curtains, bunds and paved area, were all in place and in good condition. No runoff has been observed at the site boundary adjacent to both Ma Wat River and Ng Tung River. All the wastewater was treated by wastewater treatment system before discharge. The Contractor will keep maintaining the condition of the mitigation measures to avoid silty runoff from entering the nearby waterbodies. They will also keep reviewing the site condition to provide suitable mitigation measures whenever necessary.	Closed
COM-2024-08-30	Construction site near Ma Sik Road (ND/2019/04)	30th August 2024	EPD received a complaint with ref: N07/RN/23212-24 on 29 August 2024. Complaint detail: The complainant complained about construction noise from the subject site at around 20:00hrs to 22:30hrs daily, and provided 2 videos.	The investigation result as follows: The noise generated should be mainly caused by the handling of the scaffold. Since, the whole site of the project is located outside designated area, the assessment for CNP was done according to the Technical Memorandum on Noise from Construction Work Other Than Percussive Piling, prescribed construction works are not required in the assessment in non-designated area.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				No non-compliance of legal requirement has been found. However, training has been provided to the workers and supervisor in controlling the behaviour when working in restricted hours in order to reduce the nuisance to the resident living nearby. The workers of sub-contractors have been warned on the bad practice causing nuisance and will be fined if any bad behaviour was observed by the supervisor. The Contractor will keep improving the working behaviour of the workers and supervision on them to reduce the nuisance to the neighbour and will also keep in touch with the management office of those estate nearby on the enquiries from the residents.	
COM-2024-09-13	Discharge points from ND/2019/01 and other associated NDA development projects.	13th September 2024	EPD received a complaint with ref: N07/RN/24157-24 on 9 September 2024. Complaint detail: "I refer to DSD's post-inclement weather inspection in the afternoon of 6/9/2024, suspected muddy water was observed along the Shek Tsai Leng channel near Ho Sheung Heung Road ..... it was noted that the upstream is the discharge points from ND/2019/01 and other associated NDA development projects. Such muddy water would carry siltation and may induce adverse environmental impacts to public watercourses."	The investigation result as follows: According to the record of Hong Kong Observatory, Tropical Cyclone warning Signal No.8 was hoisted in the morning and lower to signal 3 at 12:40 on 6 September 2024. Besides BKREJV, there are five interfacing contractors discharge at the same discharge point at the upstream of the channel which include Yau Lee, Hip Hing, China Road Bridge, Sun Fok Kong and China geo-engineering. BKREJV carried out post typhoon checking on the wastewater treatment facilities in the afternoon of 6 September 2024.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				It was checked that 1) adequate chemical was observed in the chemical containers of wastewater treatment plant; The water pump system was found in normal operation and 3) the water discharge from wastewater were checked in proper order by visual inspection. In view of the channel condition of Shek Tsai Leng channel, mud deposit was observed due to previous discharge of muddy water by other interface contractors. The generation of muddy water may also cause by adverse weather.	
COM-2024-09-16	Construction site area near the wholesale market adjacent to the junction of Sha Tau Kok Road and Ma Sik Road (ND/2019/04)	16th September 2024	EPD received a complaint with ref: N07/RN/24807-24 on 16 September 2024. Complaint detail: "粉嶺馬適路-沙頭角公路地盤於 9 月 15 日星期日,有大量工人工作,期間有多架重型機器同時運作,包括有挖泥機推土和拍打地面;有夾臂車攪拌水泥和卸下水泥;有大型起重機吊運建築材料,造成大量噪音,十分滋擾 本人及附近居民平日已經要承受地盤發出的建築噪音,實在無法忍受星期日仍要受苦,請環保署積極處理" Photos and Videos provided.	The investigation result as follows: The works showing in the video provided by the complainant should be lifting, operation of excavation and some grout-mixing like work at Portion J. According to the site record including site dairy endorsed by RE, no grouting works have been scheduled on 15 September 2024. No dump truck with grab and excavator have been permitted too. In conclusion, no works as shown in the photo and videos provided by the complainant have been scheduled on 15 September 2024. Also, No non-compliance of legal requirement has been found. The complaint is not project related. Briefing and training would be kept providing to the workers and supervisors in controlling the behaviour when working in restricted hours in order to reduce the nuisance to the resident living nearby. The contractor	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				will also keep informing the works scheduled at daytime and also in restricted hours to the residents living near the site area.	
COM-2024-10-02	Construction site at Ma Tso Lung Road (ND/2019/01)	2nd October 2024	EPD received a complaint with ref: N07/RN/25963-24 on 27 September 2024. Complaint detail: “工地邊界流出泥水” Attached with 4 photos that shows mud stain on pubic road surface.	The investigation result as follows: Based on Contractor’s record, construction of cofferdam was start in May 2024 and only welding and lifting works were involved during the investigation. After investigation, the mud / soil on the road maybe caused by construction plant (the excavator) moving from the opposite isolated site to another side (cofferdam area) of the site. The mud on the crawler of the excavator dropped on the public road and left unattended. The concerned site areas have been hard paved and water hose was provided. Training to the plant operator not allow to moving plant on public road was provided by the Contractor after the incident. Site area was re-aligned by combining the isolated site into the cofferdam area, and re-diverted the haul road as a result all construction plant would move within the site area. In conclusion, the cause of mud stain maybe due to the movement of construction plant on public road. Contractor will closely monitor the site condition to prevent recurrence.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
COM-2024-10-07	Construction site at Ma Tso Lung Road (ND/2019/01)	7th October 2024	EPD received a complaint with ref: N07/RN/26613-24 on 4 October 2024. Complaint detail: ".....另外每次落雨都會地盤內泥土都會沖出路面，當太大雨時水浸情況會出現多了 發展區地盤改路嚴重影響村民出入車輛，新建道路灣路多及暗藏坑洞凹凸不平，對村民駕駛出又十分危險 ！地盤出入車輛經常帶出了地盤泥土，令到路面十分骯髒！大量村民投訴平均兩三日要洗一次車，嚴重影響村民正常生活....."	The investigation result as follows: During the investigation, construction of road kerb and underground water mains installation was observed, no dusty activity was carried out. The cleanliness of Ma Tso Lung Road was kept is in good condition. No mud/soil track was observed during the inspection. Provision of functional wheel washing facility on site. According to photo records during adverse weather on 6 September 2024 (under typhoon signal no. 8) and 21 September 2024 (under red and amber rainstorm warning signal), no flooding was observed along Ma Tso Lung Road. All wastewater was collected and diverted to our wastewater treatment system for treatment before discharge. In conclusion, Contractor has provided and implemented mitigation measures such as regularly watering the haul road, automatic wheel washing facility, provision of temporary sump pit to collect surface runoff and wastewater treatment system on site. The uneven ground along the re-aligned Ma Tso Lung Road maybe due to frequently travel by heavy vehicles. The environmental conditions of the site will be continuously reviewed and monitored to ensure no adverse impacts generated from the construction works of the Project.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
COM-2024-10-30	Construction site at Ma Tso Lung Road (ND/2019/01)	30th October 2024	EPD received a complaint with ref: N07/RN/29125-24 on 23 October 2024. Complaint detail: "來電人投訴上水馬草壟閘口近燈柱編號 EB4735 地盤經常冕上發出噪音和發出燒焊的味道。"	The investigation result as follows: Welding works conducted at restricted hours as mentioned by the complainant which is complied with the valid construction noise permit. All welding works above ground level have been nearly completed; the remaining welding works are conducted under the shaft where no part of such works is visible from nearby sensitive receivers. BKREJV will reschedule the working hours to minimize the impact to the nearby residents. Further to joint inspection with AECOM and ET, BKREJV hotline for public enquiry and complaint is displayed at the conspicuous location near Ma Tso Lung Road. The environmental conditions of the site will be continuously reviewed and monitored to ensure no adverse impacts generated from the construction works of the Project.	Closed
COM-2024-11-14N	Construction site near Kwu Tung North Multi-welfare Services Complex (ND/2019/01)	14th November 2024	EPD received a complaint with ref: N07/RN/30844-24 on 7 November 2024. Complaint detail: "古洞北福利服務綜合大樓附近地盤長期發出噪音，他指管制時間內一樣持續傳出動工聲音，對家中老人家造成滋擾。"	The investigation result as follows: According to the layout plan, it was observed that there are at least 12 interfacing contractors located near the Multi-welfare Service Complex. Based on the Contractor's investigations, BKREJV have no site activities carried out near the Multi-welfare Service Complex during the restricted hour. However, construction activities by nearby interfacing contractors	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				were observed. The noise source in restricted hour is most likely due to site activities from other interfacing contractors. As such, no follow up or mitigation measures were proposed. BKREJV will ensure its construction works comply within the CNP requirements during the restricted hour (if any) and monitor the site condition to prevent nuisance to public.	
COM-2024-11-14W	Construction site at Ma Tso Lung Road (ND/2019/01)	14th November 2024	"EPD received a complaint with ref: N07/RN/31435-24 and N07/RN/31440-24 on 13 November 2024. Complaint detail: “投訴人投訴指在馬草壟路和鳳崗花園之間的河流下游，燈柱 VD7679 旁，從 11 月 10 日開始就有大量黃泥水從上游的建築地盤流過去。 投訴人原本以為是個別情況，結果後續每日都有黃泥水排到河道，令河道開始淤塞，懷疑該處地盤有違規或者故意排放污水到河道，要求部門檢視及處理。”	The investigation result as follows: According to the record of Hong Kong Observatory, Tropical Cyclone Warning Signal No.3 was hoisted from 9 November 2024 to 10 November 2024, and shortly afterwards, another typhoon TORAJI struck Hong Kong and Tropical Cyclone Warning Signal No.8 was hoisted from 13 November 2024 to 14 November 2024. Both weather events resulted in significant rainfall across Hong Kong. During the investigation on 15 November 2024 and 18 November 2024, inspection took place at the upstream of the complaint location, where is the nearest manhole near the Contract's site at Ma Tso Lung Road. It was observed that the sump pit and the AquaSed wastewater treatment facilities were found to be functioning properly and the discharge from the treatment plant connected to the manhole was clean, with no signs of muddy stains or slurry observed.	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				However, muddy stains were observed downstream near lamp post VD7679. Based on the Contractor's record, the self-check of wastewater sample at nearby wastewater treatment plant was conducted on 14 November 2024 and looked transparent. In view of the above, BKREJV has conducted monitoring on the wastewater treatment system and quality of discharge, no abnormalities were identified during the investigation. BKREJV will strengthen site supervision to ensure that all wastewater discharges complied with the discharge license. The environmental conditions of the site will be continuously reviewed and monitored to ensure no muddy discharge into public channels.	
COM-2024-11-14A	Construction dust nearby Lamppost VA6214, VA6215, Ho Sheung Heung Pai Fung Road (ND/2019/02)	14th November 2024	"Complaint received by EPD on 11 Nov 2024 with EPD ref: N07/RN/31190-24. Detail as follow: “燈柱 VA6214-VA6215 之間有個地盤經常帶好多泥沙石到馬路上，導致附近居民環境變差非常大塵，希望政府部門監督嚴懲違例事件違例事件同用水車清洗有關街道解決現狀情況"" ""地點係河上鄉排峰路燈柱燈柱 VA6214-VA6215 之間有個地盤經常帶好多泥沙石到馬路上，導致附近居民環境變差非常大塵，希望政府部門監	Investigation was conducted by contractor and reply as follow: There are area or road used by other stakeholders between Ho Sheung Heung Pai Fung Road and our site boundary which share the same exit, and it is 20m away from the Contract's site boundary. Measures have been applied regularly to reduce dust, mud from spreading out the construction site such as water wagon applied for water spraying on haul road, water pipe provided for dust suppression, paved area for wheeling washing and Ho Sheung Pai Fung Road	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
			督嚴懲違例事件違例事件同用水車清洗有關街道解決現狀情況”	cleaning by water wagon regularly. The Contractor will keep ensuring the measures for dust suppression to be effective and reviewing the site condition if enhancement of measures is needed, including water spraying, wheel washing, cleaning whenever necessary."	
COM-2024-12-31	Construction site at Ma Tso Lung Road (ND/2019/01)	31st December 2024	Complaint received by EPD on 24 Dec 2024 with EPD ref: N07/RN/35827-24. Detail as follow: “請 1823 將個案轉交申訴專員，CEDD 縱容承商非法排放黃泥水，不顧附近環境生態。附近唯一一個大型地盤，黃泥水不是來自地盤，難道天降黃泥水。有顧問公司監查，有等於無。環境保護署，及 CEDD 表示多次巡查都冇發現有黃泥水，反而我哋星斗市民可以屢次影到有泥水排放。今日 23/12/2024 下午四點半左右，又影到。”	The investigation result as follows: ""During the joint investigation between RSS and BKREJV on 23 December 2024 at around 17:30 at Site Area Portion 9b and 9c, it was observed that: a) the water discharge from sites to the upstream manhole were found in proper order without any signs of mud. b) the sump pits, pumping systems and the wastewater treatment plants were found in proper working order. c) washing out of the Dongjiang Water was being carried out by Water Supplies Department at the wash out location near Portion 9c. Large amount of Dongjiang Water with high velocity was observed flowing to the adjacent manhole. In additional, water samples were collected directly from the wastewater treatment plant discharge outlet for visual self-checking on 21 and 23 December 2024. It was also found that both samples were clean by visual inspection. Based on the daily checking record at	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				the upstream manhole since December 2024, all the discharges from sites were found in proper order. EPD also conducted an inspection at Site Area Portion 9b and 9c on 30 December 2024 in the morning. It was also found that the discharge points, the sump pits, pumping system and wastewater treatment facilities were all in proper order without any adverse comments. BKREJV assigned a person to closely monitor the conditions of discharge points at Portion 9b and 9c with proper daily checking record photos. BKREJV will strengthen site supervision to ensure that all wastewater discharges complied with the discharge license. The environmental conditions of the site will be continuously reviewed and monitored to ensure no substandard water discharge into public channels. In view of the above, BKREJV has deployed proper wastewater treatment facilities at Site Area Portion 9b and 9c, which is the upstream of the concerned stream. BKREJV has also conducted daily self checking at the upstream manhole for the water discharge condition which were found in proper order since December 2024. The water discharges were also found in proper order during the inspections conducted by RSS, Environmental Team and EPD in November and December 2024 respectively.""""	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
COM-2025-01-07	Construction site near Ma Wat River (ND/2019/05)	7th January 2025	Complaint received by EPD on 22 Dec 2024, 31 Dec 2024 and 2 Jan 2025 with EPD ref: N07/RN/35541-24, with 13 Photos attached. Detail as follow: **Complaint on 22 December 2024:** "I think some construction company keep on throwing construction water to the river. Please look into it. This action kills all the fishes and the surrounding ecology. Very annoying." **Follow-up on 31 December 2024:** "Every day or night I can still see the construction water." **Follow-up on 2 January 2025:** "More construction water on Jan 1 2025."	The investigation result as follows: **1. Site activities at Piers C3-03** Major site works conducted at site area near Pier C3-03 was forming reinstatement level, i.e. backfilling and preparation works for grasscrete installing along riverside. **2. Site information on 19 December 2024** In the morning of 19 December 2024, JV's worker reported that a water pipe, near Fire Hydrant 4346, supplying potable water to nearby residents was damaged and significant amount of water was flushing out from the concerned pipe and entering the site area around Pier C3-03. Since the concerned water pipe is independent of any works of JV, Water Supplies Department was informed by JV's site staff regarding the said issue. The ingress of water was stopped by other works department within the same day. Please refer to Appendix II for photo record taken on 19 December 2024. **3. Site information on 30 December 2024** No works was performed during nighttime and/or evening time. No precipitation recorded. No water discharge was performed. **4. Site information on 01 January 2025**	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				No works was performed at the works area nor nearby during the whole general holiday. In view of the abovementioned incident, JV has stepped up the site preparedness for run-off control during dry season at works area around Pier C3-03. The following additional measures at dry season were provided: 1. Sandbag bund has been provided to further minimize any untreated water from entering nearby watercourse, i.e. Ma Wat River; 2. Unfinished soil level should also be compacted to minimize contamination to unexpected ingress of water; 3. Exposed slope surface should be covered by impervious materials to further minimize contamination to unexpected ingress of water. The extra measures were also inspected by EPD's representative during surprised inspection on 27 December 2024."	
COM-2025-01-10	Construction site near Cyber Domaine (ND/2019/05)	10th January 2025	Complaint received by EPD on 6 January 2025 with EPD ref: N07/RN/00463-25. Detail as follow: "地盤每天很早就開工，隔音屏未能有效阻隔及減弱機器/工作時發出的聲響"	The investigation result as follows: "The following information is summarized investigation:	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				1. Site activities at Piers C4-04 to Pier E1-01 Major site works conducted at site area near Pier C4-04 to Pier E1-01 was bridge segment transportation, on bridge deck. Due to the site progress, there was no works conducted on the ground level at the moment. The ground level is mainly serving the purpose of precast segment storage, site access and site accommodation. **2. Site activities at Piers C4-04 to Pier E1-01 on 06 January 2025** According to site record, site personnel started morning exercise and briefing from 07:45 to 08:30. Site works, including machines checking and maintenance, installing railing on precast segment, lifting works by gantry crane, logistic works and general housekeeping, were conducted from 08:30 to 17:30. No works was conducted at the area during restricted hours. A 4m high temporary noise barrier has been erected on top of site hoarding between Cyber Domaine and site area since November 2023. Based on the above information, it might conclude that the complaint is not related nor valid to the project. Nevertheless, the Contractor will again remind workers to keep minimal noise from manual works if any."	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
COM-2025-02-20	Construction site near "大窩西支路何家園" (ND/2019/05)	16th February 2025	Complaint received by EPD on 6 January 2025 with EPD ref: N07/RN/00004124-25. Detail as follow: “投訴人投訴大窩西支路何家園中國鐵路建築地盤星期日依然動工，產生躁音，要求跟進。”	Summarized investigation result as follows: **1. Construction Works at TWSRW on 16 February 2025** According to site record, there was no construction works nor operation of PME conducted on 16 February 2025 at TWSRW site area. JV’s construction team had applied for use of PME around areas near Footbridge NF83A and Tai Wo Service Road East (TWSRE) according to valid CNP GW-RN1399-24 by means of Permit-to-Work system, and it was approved. However, due to actual site necessity, the said works was not performed on the concerned day. **2. Construction Noise Permit (CNP) for Concerned Area on 16 February 2025** CNP GW-RN1399-24 was valid on 16 February 2025 with Zone XI, Zone XII and Zone XIII covering works area at TWSRW. Moreover, the three zones are located outside of Designated Area defined under Noise Control Ordinance. Based on the above information, it might conclude that the complaint is not related nor valid to the project. Nevertheless, the Contractor is reminded again to observe all conditions stipulated on approved CNPs when they are being exercised.	Closed

APPENDIX T
SUMMARY OF SUCCESSFUL PROSECUTION

Appendix T - Summary of Successful Prosecution

Date of Successful Prosecution	Details of the Successful Prosecution	Status	Follow Up
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APPENDIX U
SUMMARY TABLE FOR REQUIRED SUBMISSION UNDER ENVIRONMENTAL PERMIT

Development of Kwu Tung North and Fanling North New Development Areas

Summary for the EP Submissions

DP No.	EP No.	Designated Project	Phase (1st Phase = 1, Remaining Phase = 2)	Commencement date of construction	C1	C2	C3	C4	C5	C6	C7
DP2	EP-466/2013/A	Castle Peak Road Diversion	1	12-Aug-20	C1-DP2						
DP3	EP-467/2013/A	Kwu Tung North New Development Area Road P1 and P2 and Associated New Kwu Tung Interchange and Pak Shek Au Interchange Improvement	1	12-Aug-20	C1-DP3						
DP4	EP-468/2013/A	Kwu Tung North New Development Area Road D1 to D5	1	1-Jun-20 (for C1) 3-Jul-20 (for C3)	C1-DP4		C3-DP4				
DP5	EP-469/2013	Sewage Pumping Stations in Kwu Tung North New Development Area	1	28-Oct-20		C2-DP5					
DP7	EP-470/2013/A	Utilization of Treated Sewage Effluent (TSE) from Shek Wu Hui Sewage Treatment Works	1	23-Mar-20	C1-DP7						
DP10	EP-473/2013/A	Fanling Bypass Eastern Section	1	6-Oct-20 (for C3) 23-Feb-21 (for C4) 1-Aug-20 (for C5)			C3-DP10	C4-DP10	C5-DP10		
DP12	EP-475/2013/A	Reprovision of temporary Wholesale Market in Fanling North New Development Area	1	29-Oct-19						C6-DP12	
DP14	EP-546/2017	Fanling North Temporary Sewage Pumping Station	1	16-Feb-21				C4-DP14			

DP2	EP-466/2013/A	Castle Peak Road Diversion

Construction commencement date	**12 August 2020**
Operation commencement date	**tbc**

EP Condition		Requirements and Submissions			Submission Status	Remarks
		Period	Action	Timeframe		
1.12	Commencement date of construction	Before construction		no later than 8 weeks prior to the commencement of construction.	Notified 2 March 2020	
2.1	Establish of ET	Before construction	**Establish -** An ET & IEC of at least 7 years of experience in EM&A or environmental management.	no later than 6 weeks before the commencement of construction .	Established 5 March 2020	Pre-construction ET
					Established 23 January 2020	Construction Phase ET
2.2	Employment of IEC				Established 11 March 2020	Pre-construction IEC
					Established 20 February 2020	Construction Phase IEC
2.3	Update EM&A Manual	Before construction	**Deposit**	at least 4 weeks before the commencement of construction.	Latest submitted on 4 September 2020 by Pre-construction ET	
2.4	Management organization of the main construction companies	Before construction	**Inform in writing**	no later than 2 weeks before the commencement of construction.	Deposited 27 July 2020	
2.5	Layout Plan	Before construction	**Deposit**	no later than 2 weeks before the commencement of construction.	Deposited 27 July 2020	EPD Approved 25 August 2020
2.6	Cultural Heritage Impact -- Baseline condition survey and baseline vibration impact assessment	Before construction	**To Conduct -** A baseline condition survey and baseline vibration impact assessment by a qualified building surveyor or a qualified structural engineer. <u>Note:</u> The baseline condition survey and baseline vibration impact assessment shall be included in and form part of the Baseline Monitoring Report to be submitted under Condition 3.3.	prior to the commencement of construction.	Resubmitted 19 December 2024	
2.7	Cultural Heritage Impact -- Photographic and Cartographic Records/ Proposals on relocation of any building	Others	**Deposit -** A copy of Photographic and cartographic records of directly impacted historical buildings at HKT08 and the entrance gate of HKT03.	prior to the commencement of the respective removal or relocation works.	NA	No relocation is required.
		Others	**For Approva**l **-** Proposals on relocation of any built heritages.	prior to commencement of the respective relocation work.	NA	No relocation is required.
2.8	Landscape Plan	Others	**Deposit**	at least 6 weeks before the commencement of the corresponding parts of landscape and visual mitigation measures of the Project.	Justification resubmitted to EPD on 26 March 2024	See Remark #
2.10	Traffic Noise Mitigation Plan	Before construction	**Submit**	At least one month before commencement of construction	To be submitted before commencement of Remaining Phase works	
3.3	Baseline Monitoring Report	Before construction	**Submit**	at least 2 weeks before the commencement of construction.	Submitted by Pre-Construction ET	by Fugro
3.4	Monthly EM&A Report	During construction	**Submit**	within 2 weeks after the end of each reporting month throughout the entire construction period.	Submitted by ET Monthly	
4.2	Dedicated website	During construction	**Set up and Notify in writing --** the internet address.	in place within one month after the commencement of construction of the Project.	Notified 7 July 2022	First Notified 22 April 2020 [For all EPs]
		During construction and operation	**Upload --** All environmental monitoring results described in Condition 4.1 and all submissions required by this Permit.	in the shortest time practicable, and in no event later than 2 weeks after the relevant environmental monitoring data are collected or become available.	N/A	
			Maintain	entire construction period and during the first 3-year of operation.	N/A	

Remarks: tbc: To be confirmed
DP: Designated Project
* tentative submission date will be supplemented once available
# The Landscape Plan will be submitted by CEDD's Castle Peak Road project team as confirmed since there is no existing tree is being affected by CEDD KTN NDA Phase 1 Works within the small portion of area along Castle Peak Road (near Pak Shek Au) which is overlapped with DP2 work boundary.

DP3	EP-467/2013/A	Kwu Tung North New Development Area Road P1 and P2 and Associated New Kwu Tung Interchange and Pak Shek Au Interchange Improvement				
Construction commencement date			**12 August 2020**			
Operation commencement date			**tbc**			
EP Condition		**Requirements and Sumbissions**			**Submission Status**	**Remarks**
		Period	**Action**	**Timeframe**		
1.12	Commencement date of construction	Before construction		no later than 8 weeks prior to the commencement of construction	Notified 2 March 2020	
2.1	Establish of ET	Before construction	**Establish -** An ET & IEC of at least 7 years of experience in EM&A or environmental management.	no later than 6 weeks before the commencement of construction	Established 5 March 2020	Pre-construction ET
					Established 23 January 2020	Construction Phase ET
2.2	Employment of IEC				Established 11 March 2020	Pre-construction IEC
					Established 20 February 2020	Construction Phase IEC
2.3	Update EM&A Manual	Before construction	**Deposit**	at least 4 weeks before the commencement of construction	Latest submitted on 4 September 2020 by Pre-construction ET	
2.4	Management organization of the main construction companies	Before construction	**Inform in writing**	no later than 2 weeks before the commencement of construction	Deposited 27 July 2020	
2.5	Layout Plan	Before construction	**Deposit**	no later than 2 weeks before the commencement of construction	Deposited 27 July 2020	EPD Approved 25 August 2020
2.6	Traffic Noise Mitigation Plan	Before construction	**For Approval**	no later than 1 month before the commencement of consturction	Deposited 31 July 2019	EPD Approved 9 August 2019
2.7	Cultural Heritage Impact -- Photographic and Cartographic Records	Others	**Deposit -** A copy of Photographic and cartographic records of directly impacted historical buildings and cultural/historical lanscape features at Locatoins KT38, KT44 and KT52.	prior to the commencement of the respective removal or relocation works	Deposited 10 Feb 2021	No relocation is required
2.8	Landscape Plan	Others	**Deposit**	at least 6 weeks before the commencement of the corresponding parts of landscape and visual mitigation measures of the Project	Deposited 19 December 2022	Resubmitted to EPD 14 July 2023
3.3	Baseline Monitoring Report	Before construction	**Submit**	at least 2 weeks before the commencement of construction	Submitted by Pre-Construction ET	by Fugro
3.4	Monthly EM&A Report	During construction	**Submit**	within 2 weeks after the end of each reporting month throughout the entire construction period	Submitted by ET Monthly	
4.2	Dedicated website	During construction	**Set up and Notify in writing** -- the internet address	in place within one month after the commencement of construction of the Project.	Notified 7 July 2022	First Notified 22 April 2020 [For all EPs]
		During construction and operation	**Upload** -- All environmental monitoring results described in Condition 4.1 and all submissions required by this Permit	in the shortest time practicable, and in no event later than 2 weeks after the relevant environmental monitoring data are collected or become available	N/A	
			Maintain	entire construction period and during the first 3-year of operation	N/A	

Remarks: tbc: To be confirmed
DP: Designated Project
*tentative submission date will be supplemented once available

DP4	EP-468/2013/A	Kwu Tung North New Development Area Road D1 to D5				
Construction commencement date			**1 June 2020**			
Operation commencement date			**tbc**			
EP Condition		**Requirements and Submissions**			**Submission Status**	**Remarks**
		Period	**Action**	**Timeframe**		
1.12	Commencement date of construction	Before construction		no later than 8 weeks prior to the commencement of construction	Notified 2 March 2020	
2.1	Establish of ET	Before construction	**Establish -** An ET & IEC of at least 7 years of experience in EM&A or environmental management.	no later than 6 weeks before the commencement of construction	Established 5 March 2020	Pre-construction ET
					Established 23 January 2020	Construction Phase ET
2.2	Employment of IEC				Established 11 March 2020	Pre-construction IEC
					Established 20 February 2020	Construction Phase IEC
2.3	Update EM&A Manual	Before construction	**Deposit**	at least 4 weeks before the commencement of construction	Latest submitted on 4 September 2020 by Pre-construction ET	
2.4	Management organization of the main construction companies	Before construction	**Inform in writing**	no later than 2 weeks before the commencement of construction	Deposited 14 May 2020	
2.5	Layout Plan	Before construction	**Deposit**	no later than 2 weeks before the commencement of construction	Deposited 14 May 2020	
2.6	Cultural Heritage Impact -- Baseline condition survey and baseline vibration impact assessment	Before construction	**To Conduct -** A baseline condition survey and baseline vibration impact assessment by a qualified building surveyor or a qualified structural engineer Note: The baseline condition survey and baseline vibration impact assessment shall be included in and form part of the Baseline Monitoring Report to be submitted under Condition 3.3	prior to the commencement of construction	Resubmitted 19 December 2024	
2.7	Cultural Heritage Impact -- Photographic and Cartographic Records/ Proposals on relocation of any building	Others	**Deposit -** A copy of Photographic and cartographic records of directly impacted historical buildings and cultural/historical landscape features at locations HKT03, KT16, KT17 and KT18	prior to the commencement of the respective removal or relocation works	NA	No relocation is required.
		Others	**For Approva**l - Proposals on relocation of any built heritages	prior to commencement of the respective relocation work	NA	No relocation is required.
2.8	Compensatory Tree Planting Plan	Before construction	**For Approval**	prior to the commencement of construction	Resubmitted 17 August 2022	EPD approved 31 August 2022
2.9	Habitat Creation and Management Plan	Others	**For Approval**	prior to the commencement of construction of relevant part of the Project	Submitted 20 October 2020	EPD approved 4 November 2020
2.10	Traffic Noise Mitigation Plan	Before construction	**For Approval**	no later than 1 month before commencement of construction	Submitted 31 July 2019	EPD approved 9 August 2019
3.3	Baseline Monitoring Report	Before construction	**Submit**	at least 2 weeks before the commencement of construction	Submitted by Pre-Construction ET	by Fugro
3.4	Monthly EM&A Report	During construction	**Submit**	within 2 weeks after the end of each reporting month throughout the entire construction period	Submitted by ET Monthly	
4.2	Dedicated website	During construction	**Set up and Notify in writing --** the internet address	in place within one month after the commencement of construction of the Project.	Notified 7 July 2022	First Notified 22 April 2020 [For all EPs]
		During construction and operation	**Upload --** All environmental monitoring results described in Condition 4.1 and all submissions required by this Permit	in the shortest time practicable, and in no event later than 2 weeks after the relevant environmental monitoring data are collected or become available	N/A	
			Maintain	entire construction period and during the first 3-year of operation	N/A	

Remarks: tbc: To be confirmed
DP: Designated Project
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DP5	EP-469/2013	Sewage Pumping Stations in Kwu Tung North New Development Area				
Construction commencement date			**28 October 2020**			
Operation commencement date			**tbc**			
EP Condition		**Requirements and Submissions**			**Submission Status**	**Remarks**
		Period	**Action**	**Timeframe**		
1.12	Commencement date of construction	Before construction		no later than 8 weeks prior to the commencement of construction	Notify 14 October 2020	
2.1	Establish of ET	Before construction	**Establish -** An ET & IEC of at least 7 years of experience in EM&A or environmental management.	no later than 6 weeks before the commencement of construction	Established 5 March 2020	Pre-construction ET
					Established 23 January 2020	Construction Phase ET
2.2	Employment of IEC				Established 11 March 2020	Pre-construction IEC
					Established 20 February 2020	Construction Phase IEC
2.3	Update EM&A Manual	Before construction	**Deposit**	at least 4 weeks before the commencement of construction	Latest submitted on 4 September 2020 by Pre-construction ET	
2.4	Management organization of the main construction companies	Before construction	**Inform in writing**	no later than 2 weeks before the commencement of construction	Deposited 17 September 2020	
2.5	Location Plans	Before construction	**Deposit**	no later than 2 weeks before the commencement of construction	Updated Plan Deposited 25 March 2024	First Deposited 15 October 2020
2.6	Landscape Plan	Before construction	**Deposit**	at least 6 weeks before the commencement of th corresponding parts of landscape and visual mitigation measures	Deposited 9 August 2022	Resubmitted to EPD on 5 July 2023
3.3	Baseline Monitoring Report	Before construction	**Submit**	at least 2 weeks before the commencement of construction	Submitted by Pre-construction ET	by Fugro
3.4	Monthly EM&A Report	During construction	**Submit**	within 2 weeks after the end of each reporting month throughout the entire construction period	Submitted by ET Monthly	
4.2	Dedicated website	During construction	**Set up and Notify in writing** -- the internet address	in place within one month after the commencement of construction of the Project.	Notified 7 July 2022	First Notified 22 April 2020 [For all EPs]
		During construction and operation	**Upload** -- All environmental monitoring results described in Condition 4.1 and all submissions required by this Permit	in the shortest time practicable, and in no event later than 2 weeks after the relevant environmental monitoring data are collected or become available	N/A	
			Maintain	entire construction period and during the first 3-year of operation	N/A	

Remarks: tbc: To be confirmed
DP: Designated Project
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DP7	EP-470/2013/A	Utilization of Treated Sewage Effluent (TSE) from Shek Wu Hui Sewage Treatment Works				
Construction commencement date			**23 March 2020**			
Operation commencement date			**tbc**			
EP Condition		**Requirements and Submissions**			**Submission Status**	**Remarks**
		Period	**Action**	**Timeframe**		
1.12	Commencement date of construction	Before construction		no later than 8 weeks prior to the commencement of construction	Notify 22 January 2020	
2.1	Establish of ET	Before construction	**Establish -** An ET & IEC of at least 7 years of experience in EM&A or environmental management.	no later than 6 weeks before the commencement of construction	Established 5 March 2020	Pre-construction ET
					Established 23 January 2020	Construction Phase ET
2.2	Employment of IEC				Established 11 March 2020	Pre-construction IEC
					Established 20 February 2020	Construction Phase IEC
2.3	Update EM&A Manual	Before construction	**Deposit**	at least 4 weeks before the commencement of construction	Latest submitted on 4 September 2020 by Pre-construction ET	
2.4	Management organization of the main construction companies	Before construction	**Inform in writing**	no later than 2 weeks before the commencement of construction	Deposited 14 May 2020	
2.5	Layout Plan	Before construction	**Deposit**	no later than 2 weeks before the commencement of construction	Deposited 14 May 2020	
3.3	Baseline Monitoring Report	Before construction	**Submit**	at least 2 weeks before the commencement of construction	Submitted by Pre-Construction ET	by Fugro
3.4	Monthly EM&A Report	During construction	**Submit**	within 2 weeks after the end of each reporting month throughout the entire construction period	Submitted by ET Monthly	
4.2	Dedicated website	During construction	**Set up and Notify in writing --** the internet address	in place within one month after the commencement of construction of the Project.	Notified 7 July 2022	First Notified 22 April 2020 [For all EPs]
		During construction and operation	**Upload --** All environmental monitoring results described in Condition 4.1 and all submissions required by this Permit	in the shortest time practicable, and in no event later than 2 weeks after the relevant environmental monitoring data are collected or become available	N/A	
			Maintain	entire construction period and during the first 3-year of operation	N/A	

Remarks: tbc: To be confirmed
DP: Designated Project
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DP10	EP-473/2013/A	Fanling Bypass Eastern Section

Construction commencement date	**1 August 2020**
Operation commencement date	**tbc**

EP Condition		Requirements and Submissions			Submission Status	Remarks
		Period	Action	Timeframe		
1.12	Commencement date of construction	Before construction		no later than 8 weeks prior to the commencement of construction	Notified 8 September 2020	
2.1	Establish of ET	Before construction	**Establish -** An ET & IEC of at least 7 years of experience in EM&A or environmental management.	no later than 6 weeks before the commencement of construction	Established 5 March 2020	Pre-construction ET
					Established 23 January 2020	Construction Phase ET
2.2	Employment of IEC				Established 11 March 2020	Pre-construction IEC
					Established 20 February 2020	Construction Phase IEC
2.3	Update EM&A Manual	Before construction	**Deposit**	at least 4 weeks before the commencement of construction	Latest submitted on 4 September 2020 by Pre-construction ET	
2.4	Management organization of the main construction companies	Before construction	**Inform in writing**	no later than 2 weeks before the commencement of construction	Deposited 17 March 2021	
2.5	Location Plans	Before construction	**Deposit**	no later than 2 weeks before the commencement of construction	Deposited 10 December 2020	
2.6	Relocation Plan for Rose Bitterling	Before construction	**Approval**	before the commencement of construction	N/A	
2.7	Egretry Habitat Creation and Management Plan	Before construction	**Approval**	before the commencement of construction	N/A	
2.8	Detailed Design of Siu Hang San Tsuen Stream	Before construction	**Deposit**	before the commencement of construction	Deposited 5 May 2022	EPD Satisfied 18 May 2022
2.9	Traffic Noise Mitigation Plan	Before construction	**Approval**	no later than 1 month before the commencement of construction	Updated 22 July 2024	EPD Approved 5 August 2024
2.10	Cultural Heritage Impact -- Baseline condition survey and baseline vibration impact assessment	Before construction	**To Conduct -** A baseline condition survey and baseline vibration impact assessment by a qualified building surveyor or a qualified structural engineer Note: The baseline condition survey and baseline vibration impact assessment shall be included in and form part of the Baseline Monitoring Report to be submitted under Condition 3.3	prior to the commencement of construction	Submitted 1 September 2022, 5 May 2022 and 12 July 2022	
2.11	Cultural Heritage Impact -- Photographic and Cartographic Records/ Proposals on relocation of any building	Others	**Deposit -** A copy of Photographic and cartographic records of directly impacted historical buildings and cultural/historical landscape features at FL19	prior to the commencement of the respective removal or relocation works	Submitted 25 May 2022	No relocation is required
		Others	**For Approva**l **-** Proposals on relocation of any built heritages	prior to commencement of the respective relocation work	NA	No relocation is required
3.3	Baseline Monitoring Report	Before construction	**Submit**	at least 2 weeks before the commencement of construction	Submitted by Pre-Construction ET	by Fugro
3.4	Monthly EM&A Report	During construction	**Submit**	within 2 weeks after the end of each reporting month throughout the entire construction period	Submitted by ET Monthly	
4.2	Dedicated website	During construction	**Set up and Notify in writing --** the internet address	in place within one month after the commencement of construction of the Project.	Notified 7 July 2022	First Notified 22 April 2020 [For all EPs]
		During construction and operation	**Upload --** All environmental monitoring results described in Condition 4.1 and all submissions required by this Permit	in the shortest time practicable, and in no event later than 2 weeks after the relevant environmental monitoring data are collected or become available	N/A	
			Maintain	entire construction period and during the first 3-year of operation	N/A	

Remarks: tbc: To be confirmed
DP: Designated Project
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DP12	EP-475/2013/A	Reprovision of Temporary Wholesale Market in Fanling North New Development Area				
Construction commencement date			**29 October 2019**			
Operation commencement date			**20 July 2023**			
EP Condition		**Requirements and Submissions**			**Submission Status**	**Remarks**
		Period	**Action**	**Timeframe**		
1.12	Commencement date of construction	Before construction		no later than 8 weeks prior to the commencement of construction	Notified 15 October 2019	
2.1	Establish of ET	Before construction	**Establish -** An ET & IEC of at least 7 years of experience in EM&A or environmental management.	no later than 6 weeks before the commencement of construction	Established 5 March 2020	Pre-construction ET
					Established 23 January 2020	Construction Phase ET
2.2	Employment of IEC				Established 11 March 2020	Pre-construction IEC
					Established 20 February 2020	Construction Phase IEC
2.3	Update EM&A Manual	Before construction	**Deposit**	at least 4 weeks before the commencement of construction	Latest submitted on 4 September 2020 by Pre-construction ET	
2.4	Management organization of the main construction companies	Before construction	**Inform in writing**	no later than 2 weeks before the commencement of construction	Deposited 14 October 2019	
2.5	Layout Plan	Before construction	**Deposit**	no later than 2 weeks before the commencement of construction	Deposited 14 October 2019	
2.6	Landscape Plan	Others	**Deposit**	at least 6 weeks before the commencement of the corresponding parts of landscape and visual mitigation measures of the Project	Deposited 31 March 2022	
3.3	Baseline Monitoring Report	Before construction	**Submit**	at least 2 weeks before the commencement of construction	Submited by Pre-construction ET	by Fugro
3.4	Monthly EM&A Report	During construction	**Submit**	within 2 weeks after the end of each reporting month throughout the entire construction period	Submitted by ET monthly	
4.2	Dedicated website	During construction	**Set up and Notify in writing** -- the internet address	in place within one month after the commencement of construction of the Project.	Notified 7 July 2022	First Notified 22 April 2020 [For all EPs]
		During construction and operation	**Upload** -- All environmental monitoring results described in Condition 4.1 and all submissions required by this Permit	in the shortest time practicable, and in no event later than 2 weeks after the relevant environmental monitoring data are collected or become available	N/A	
			Maintain	entire construction period and during the first 3-year of operation	N/A	

Remarks: tbc: To be confirmed
DP: Designated Project
*tentative submission date will be supplemented once available

DP14	EP-546/2017	Fanling North Temporary Sewage Pumping Station				
Construction commencement date			**16 February 2021**			
Operation commencement date			**tbc**			
EP Condition		**Requirements and Submissions**			**Submission Status**	**Remarks**
		Period	**Action**	**Timeframe**		
1.12	Commencement date of construction	Before construction		no later than 1 month prior to the commencement of construction	Notified 8 September 2020	
1.14	Commencement date of operation	Before operation	**Notify in writing**	no later than 1 month prior to the commencement of operation	N/A	
2.4	IEC Audit Report	After construction	**Deposit**	within one month upon completion of the construction works	N/A	