

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 November 2024**

(Version 1.3)

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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Your Reference

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

Our Reference

EC/TC/hc/414202/L0253

Monthly Environmental Monitoring and Audit Report No. 61 (November 2024)

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17 December 2024

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BY EMAIL

Dear Sir,

We refer to email of 17 December 2024 attaching the Monthly Environmental Monitoring and Audit Report No. 61 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 or our Ms. Liz Lo at 2828 5751.

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



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EXECUTIVE SUMMARY**Introduction**

1. This is the 61st 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 November 2024.
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

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	
1-hr Suspended Particulates Monitoring (TSP)	FLN-DMS1	N/A	N/A	6, 12, 18, 22 and 28 Nov 24	6, 12, 18, 22 and 28 Nov 24	N/A	N/A	N/A	
	FLN-DMS3			N/A	N/A	6, 12, 18, 22 and 28 Nov 24			
	FLN-DMS5			5, 11, 15, 21 and 27 Nov 24	5, 11, 15, 21 and 27 Nov 24	N/A			
	KTN-DMS4(B)			5, 11, 15, 21 and 27 Nov 24	N/A	N/A			
24-hr TSP Monitoring	FLN-DMS1	N/A	N/A	5, 11, 15, 21 and 27 Nov 24	5, 11, 15, 21 and 27 Nov 24	N/A	N/A	N/A	
	FLN-DMS3			N/A	N/A	5, 11, 15, 21 and 27 Nov 24			
	FLN-DMS5A			5, 11, 15, 21 and 27 Nov 24	5, 11, 15, 21 and 27 Nov 24	N/A			
	KTN-DMS4(B)			5, 11, 15, 21 and 27 Nov 24	N/A	N/A			
Noise Monitoring	CP-FLN-NMS1	N/A			6, 12, 18 and 28 Nov 24		N/A	N/A	
	CP-FLN-NMS2	N/A				6, 12, 18 and 28 Nov 24			N/A
	CP-KTN-NMS2	5, 11, 21 and 27 Nov 24	N/A	N/A					
	CP-KTN-NMS3			N/A					
	CP-KTN-NMS5			N/A					
	CP-KTN-NMS6	N/A	5, 11, 21 and 27 Nov 24	N/A					
Ecological Survey	Monitoring of Measures to Minimise Disturbance to Water Birds on Ng Tung River, Sheung Yue River, and Long Valley	N/A	N/A	4, 5, 12, 15, 19, 21, 28 and 29 Nov 24	4, 12, 19 and 28 Nov 24	N/A	N/A	N/A	
	Monitoring of Measures to Minimise Impacts to Ma Tso Lung Stream and Siu Hang San Tsuen Stream	N/A*	N/A*	N/A*	N/A*	N/A*	N/A*	N/A*	

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	20 and 26 Nov 24	20 and 26 Nov 24	26 Nov 24	26 Nov 24	26 Nov 24	N/A*	N/A*
Egretty Monitoring		N/A	N/A	N/A	N/A	N/A	N/A	N/A
24-hr RSP (Ambient Arsenic) Monitoring for Land Contamination		5, 11, 15, 21 and 27 Nov 24	N/A	5, 11, 15, 21 and 27 Nov 24	N/A	N/A	N/A	N/A
Water Quality Monitoring		N/A	1, 4, 6, 8, 11, 13, 15, 18, 20, 22, 25, 27 and 29 Nov 24	N/A	1, 4, 6, 8, 11, 13, 15, 18, 20, 22, 25, 27 and 29 Nov 24	N/A	N/A	N/A
Landfill Gas Monitoring		27 Nov 24	N/A	N/A	N/A	N/A	N/A	N/A
Built Heritage Monitoring		N/A	1, 4, 6, 8, 11, 12, 13, 15, 18 and 25 Nov 24	N/A	N/A	N/A	N/A	N/A
Environmental Site Inspection		5, 14, 19 and 26 Nov 24	6, 13, 20 and 27 Nov 24	5, 14, 19 and 26 Nov 24	7, 12, 21 and 27 Nov 24	4, 15, 21 and 25 Nov 24	NIL	4, 15, 18 and 25 Nov 24

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 exceeds 500m, 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)}	1	0	1	0	0	0
Water Quality	DO	0	5	5	0	0	0
	Turbidity	1	2	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
	Non-aquatic fauna	2	2	4	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. One (1) Action Level exceedance was recorded due to one noise complaint was received in the reporting month. No Limit Level exceedance was recorded.

Water Quality

7. All additional water quality monitoring was conducted as scheduled in the reporting month. Five (5) Limit Level for DO, One (1) Action Level and Two (2) 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. Built heritage monitoring was carried out in the reporting month by the Contractor under ND/2019/02 for surveyed cultural heritage. No Limit Level exceedance was recorded.

Ecological Monitoring

11. All ecological monitoring was conducted as scheduled in the reporting month. Two (2) Action Level exceedance and Two (2) Limit Level exceedance for non-aquatic fauna were recorded at T1, T3 & T6 respectively. 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. Three (3) environmental complaints were received in the reporting month. The first complaint regarding soil/muddy water discharge construction site of ND/2019/01 was received by EPD on 13 November 2024 and referred by EPD on 14 November 2024. The second complaint regarding construction dust was from the construction site of ND/2019/02, received by EPD on 11 November 2024 and referred by EPD on 14 November 2024. The third complaint regarding Construction noise was also from the construction site ND/2019/01, received by EPD on 7 November 2024 and referred by EPD on 14 November 2024. Details are shown in **Appendix S**.

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 Issues15. 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 (December 2024 to February 2025)
ND/2019/01	<ul style="list-style-type: none"> (a) Drainage works, watermain works, sheet piling, site formation and slope works in Portion 1a (b) Site formation, drainage works, watermain works and construction of noise barrier in Portion 1c (c) Site formation, construction of subway, road works, drainage works, slope works and soil nail in Portion 2 (d) Site formation, excavation, road works, slope work, drainage works, watermain works and soil nail in Portion 3 (e) Drainage work, excavation, backfilling, road works and construction of public lighting in Portion 5 (f) Drainage works, backfilling, road works, watermains works, construction of retaining wall and slope works in Portion 6a (g) Operation of HAC treatment facility in Portion 6b (h) Sheet piling, excavation, stockpile of soil, drainage works, watermain works and road works in Portion 7 (i) Road pavement construction, backfilling works, drainage works, watermain works and soil nail in Portion 8a (j) Trenchless work, watermain works, ground treatment and ELS construction in Portion 8b (k) Sheet piling, excavation, road works, drainage works, watermain works and district cooling system in Portion 9b (l) Site formation, excavation, drainage works, roadworks and watermain works in Portion 11b (m) Stockpile of soil in Portion 13
ND/2019/02	<ul style="list-style-type: none"> (a) Pipe Jacking (b) Backfilling (c) Excavation (d) Concreting (e) Bedding and pipe laying (f) Sheet Piling (g) Cut and Fill of Slope
ND/2019/03	<ul style="list-style-type: none"> (a) Portion 2 to Portion 20C <ul style="list-style-type: none"> - Wetland creation & restoration, Dry agricultural land creation - Defect Rectification of Lodging Facility
ND/2019/04	<ul style="list-style-type: none"> (a) Pile Cap (b) Back Filling (c) Excavation (d) Road works (e) Formwork and Scaffolding Erection (f) Rebar Fixing (g) ELS
ND/2019/05	<ul style="list-style-type: none"> (a) Backfilling (b) Drainage works

Contract No.	Site Activities (December 2024 to February 2025)
	<ul style="list-style-type: none"> (c) Water works (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	<ul style="list-style-type: none"> (a) Road works at Portion 1, 4 and 5 (b) C&D waste disposal at Portion 1, 2 and 4 (c) Drainage works, Sewerage works at Portion 1, 2, 3 and 4 (d) Filling works at Portion 2 and 4 (e) Construction of site haul road at Portion 4 (f) Waterworks at Portion 1, 2 and 4 (g) Construction of noise barrier at Portion 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 61st EM&A Report which summarises the key findings of the EM&A programme in November 2024.

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** - summarises 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 egret sites in the FLN NDA and enhancement works to an existing egret 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 **2.1b**.

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 m ³ 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 3,600m ³ /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
<i>Supervisor / Supervisor's Representative</i> (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
<u>Contract No. ND/2019/01</u> Contractor (Build King – Richwell Engineering Joint Venture)	Site Agent	Mr. Ivan Leung	9640 8340	--
	Environmental Officer	Mr. Edward Tam	9287 8270	
<u>Contract No. ND/2019/02</u> Contractor (Chun Wo – Kwan Lee Joint Venture.)	Site Agent	Mr. Andy Chan	3485 9780	--
	Environmental Officer	Mr. Sofi So	9637 1667	
<u>Contract No. ND/2019/03</u> Contractor (Sang Hing Kuly Joint Venture)	Site Agent	Mr. Tang Wing Kai	9300 7037	--
	Environmental Officer	Mr. Ken Cheung	9803 5297	
<u>Contract No. ND/2019/04</u> Contractor (Daewoo – Chun Wo – Kwan Lee Joint Venture)	Site Agent	Mr. Eric Wu	9786 8630	--
	Environmental Officer	Mr. Sam Lam	6178 3179	
<u>Contract No. ND/2019/05</u> Contractor (CRCC – Paul Y. Joint Venture)	Site Agent	Mr. Darwin Lo	9467 5891	--
	Environmental Manager	Mr. Pan Fong	9436 9435	
	Environmental Officer	Mr. Kevin Cheung	6117 1344	
<u>Contract No. ND/2019/06</u> Contractor (New Concepts Engineering Development Ltd.)	Project Manager	Mr. Joe Cheng	9861 0060	--
	Environmental Officer	Mr. Alex Choy	6360 3236	
<u>Contract No. ND/2019/07</u> 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 (November 2024)
ND/2019/01	<ul style="list-style-type: none"> (a) Drainage works, watermain works, sheet piling and slope works in Portion 1a (b) Site formation, watermain and construction of noise barrier in Portion 1c (c) Site formation, construction of subway, drainage works, road works, slope work and soil nail in Portion 2 (d) Watermain works, drainage work and sheet piles in Portion 3 (e) Site formation, watermain works and drainage works in Portion 5 (f) Backfilling, drainage works, watermain works, slope works, road work 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 pavement construction, RC construction of fresh water service reservoir, drainage works, watermain works and backfilling works in Portion 8a (j) Trenchless work, watermain construction, ELS construction and ground treatment works in Portion 8b (k) Sheet piling, excavation, drainage, 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	<ul style="list-style-type: none"> (a) Pipe Jacking (b) Backfilling (c) Excavation (d) Concreting (e) Bedding and pipe laying (f) Sheet Piling (g) Cut and Fill of Slope
ND/2019/03	<ul style="list-style-type: none"> (a) Portion 2 to Portion 20C <ul style="list-style-type: none"> - Wetland creation & restoration, Dry agricultural land creation - Construction of Water Treatment Wetland
ND/2019/04	<ul style="list-style-type: none"> (a) Pile Cap (b) Back Filling (c) Excavation (d) Grouting (e) Road works (f) Formwork and Scaffolding Erection (g) Rebar Fixing (h) ELS
ND/2019/05	<ul style="list-style-type: none"> (a) <u>South Team</u> <ul style="list-style-type: none"> - BBI Toilet – Wall construction completed. Roof construction is in progress. - Lift LT01 – Installation of louvre and glasses in progress. - Lift LT02 – Lift shaft in progress. - Sign Gantry DS20 – Pile cap construction in progress. - E4 Retaining Wall – Base slab construction in progress. - Noise barrier NB109

Contract No.	Site Activities (November 2024)
	<ul style="list-style-type: none"> A. Bay 14 – Footing completed. Wall construction in progress. B. Bay 17, 18 – Walls are completed. Backfilling to formation level in progress. C. Bay 1 to 4 – Partially completed up to 1m below road level. Backfilling to suit TTA-423 in progress. - Noise barrier NB70 <ul style="list-style-type: none"> A. Bay 5, 6 – Footing and wall construction completed. B. Bay 2, 3, 4 - Excavation completed. Footing construction in progress. - Noise barrier NB69 <ul style="list-style-type: none"> A. Bay 1, 2 – Bay 2b wall construction to be resumed after Bridge E4 segment erection. - Noise barrier NB110 <ul style="list-style-type: none"> A. Bay 10 – Pile loading tests completed on 26 October 2024. Excavation for pile caps PC1 and PC2 is completed. Pile cap construction is in progress - Noise barrier NB 29 Through Bay 6-15 <ul style="list-style-type: none"> A. Footing is 90% completed B. Wall (exclude parapet) is 75% completed. Parapet section will cast after backfilling to formation. - Noise barrier NB 30 <ul style="list-style-type: none"> A. NB30 Predrilling works (13/28 nos) completed. B. Pre-bored Socket H pile construction (7/220 nos) completed. - Noise barrier NB 77 <ul style="list-style-type: none"> A. Pre-bored Socket H pile construction (1/16 nos) completed. <p>(b) <u>North Team</u></p> <ul style="list-style-type: none"> - B2-01 cross head construction concreting completed. - Rebar fixing for B1abutment wall in progress. - Reinstatement works & footpath in progress in C4-02 (HD) - C3-03b & C3-04b for viaduct drainage & water works in progress - Backfilling of C3-04a, C2-01, C1-02a & C1-02b in progress. - On Kui Street (near newly constructed DN 900 manhole) – reinstatement completed. - On Kui Street – Construction of FW 53 completed. - JCR: Construction of new central median & ducting works for traffic signal & road light were completed of 85%. - JCR & Tong Hang Village J/O improvement works (FS 25): slope works 90 % completed. - JCR & Tong Hang Village J/O (near bus-stop) : Ducting works for traffic signal & road light was in progress (75 % completed). - JCR near Wong Kong Shan Village– Trial pits to verify of proposed alignment of watermain diversion was completed. - JCR near F63 – Breaking of temporary pavement was in progress. Laying of DN 150 FWM was completed. <p>(c) <u>Bridges and Structures</u></p> <ul style="list-style-type: none"> - All 116 Type C segments casted in DongGuan Casting yard. - All Type A segment fabrication completed. Total 758 segments were delivered to site, and total 734 segments erected. - B2-02 T-span segment erection by LG completed, B2-03 T-span segment erection in progress. - Total 1106 pcs of parapet-skin fabricated; 920 pcs of parapet skin erected.

Contract No.	Site Activities (November 2024)
	<ul style="list-style-type: none"> - Installation of deck void drainage at Bridge C2 in progress. - Segment erection at E4-01 & E4-02 T-span in progress. - Bridge rotation at D2-01 in progress. - Reinstate of lifting tower NF83A in progress. (d) <u>Form Traveler</u> <ul style="list-style-type: none"> - Form traveler at 04th pair segment at E3-04 in progress. - Form traveler at 11th pair segment at E3-02 completed - Form traveler at 7th pair segment at D2-01 completed. - Mid stitching between E2-01 & E2-02 in progress. - Mid stitching between E3-02 & E3-03 completed. - Dismantling of form traveler at E3-02 in progress - Completed concreting E3-E3-02-E3-03-S10 & E3-E3-02-E3-01-S10, E3-E3-02-E3-01-S011. - Completed concreting E3-E3-04-E3-03-S02 & E3-E3-04-E3-05-S02, E3-E3-04-E3-03-S03 & E3-E3-04-E3-05-S03.
ND/2019/06	The construction phase was completed and handed over to AFCD since 4 April 2022.
ND/2019/07	<ul style="list-style-type: none"> (a) Road works at Portion 1, 4 and 5 (b) C&D waste disposal at Portion 1, 2 and 4 (c) Drainage works, Sewerage works at Portion 1, 2, 3 and 4 (d) Filling works at Portion 2 and 4 (e) Construction of site haul road at Portion 4 (f) Waterworks at Portion 1, 2 and 4 (g) Construction of noise barrier at Portion 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-RN0502-24	19/05/2024	18/11/2024	Renewed to GW-RN1257-24 In the reporting month
	GW-RN0751-24	16/07/2024	15/11/2024	Renewed to GW-RN1248-24 In the reporting month
	GW-RN0931-24	16/08/2024	15/11/2024	Renewed to GW-RN1247-24 In the reporting month
	GW-RN0957-24	26/08/2024	18/02/2025	Valid
	GW-RN0956-24	21/08/2024	20/11/2024	Renewed to GW-RN1385-24 In the reporting month
	GW-RN0983-24	31/08/2024	30/11/2024	Expired in reporting month
	GW-RN0988-24	01/09/2024	28/02/2025	Valid
	GW-RN1069-24	14/09/2024	13/12/2024	Renewed to GW-RN1274-24 In the reporting month
	GW-RN1113-24	25/09/2024	24/01/2025	Valid
	GW-RN1127-24	12/10/2024	11/01/2025	Valid
	GW-RN1247-24	16/11/2024	15/02/2025	Valid
	GW-RN1248-24	16/11/2024	15/04/2025	Valid
	GW-RN1385-24	24/11/2024	23/02/2025	Valid
	GW-RN1257-24	19/11/2024	18/02/2025	Valid
GW-RN1274-24	12/11/2024	11/02/2025	Valid	
ND/2019/02	GW-RN1058-24	12/09/2024	11/12/2024	Valid
	GW-RN1106-24	23/09/2024	22/12/2024	Valid
	GW-RN1186-24	10/10/2024	31/12/2024	Valid
ND/2019/03	--	--	--	--
ND/2019/04	GW-RN1016-24	26/09/2024	25/12/2024	Valid
	GW-RN1017-24	04/09/2024	03/12/2024	Valid
	GW-RN1088-24	14/09/2024	16/11/2024	Expired in reporting month
	GW-RN1179-24	13/10/2024	30/11/2024	Expired in reporting month
	GW-RN1312-24	10/11/2024	09/02/2025	Valid

ND/2019/05	GW-RN0662-24	01/07/2024	30/11/2024	Expired in reporting month
	GW-RN1019-24	04/09/2024	30/11/2024	Expired in reporting month
	GW-RN1033-24	04/09/2024	28/02/2025	Valid
	GW-RN1075-24	09/09/2024	08/12/2024	Valid
	GW-RN1185-24	11/10/2024	10/01/2025	Valid
	GW-RN1241-24	26/10/2024	25/01/2025	Valid
	GW-RN1242-24	01/11/2024	31/01/2025	Valid
	GW-RN1309-24	11/11/2024	10/02/2025	Valid
	GW-RN1311-24	12/11/2024	31/01/2025	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
	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
	WT00036414-2020	25/02/2021	28/02/2026	Valid
	WT00037771-2021	08/07/2021	31/07/2026	Valid
	WT00035984-2020	25/02/2021	28/02/2026	Valid
ND/2019/04	WT00037539-2021	02/06/2022	30/04/2026	Valid
ND/2019/05	WT00036996-2020	12/04/2020	31/12/2025	Valid
	WT00042471-2022	03/11/2022	31/11/2027	Valid
ND/2019/06	WT00035415-2019	20/03/2020	31/03/2025	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	9
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 $\pm 3^{\circ}\text{C}$; the relative humidity (RH) was $< 50\%$ and not variable by more than $\pm 5\%$. 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 m³/min. and 1.4 m³/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 $\pm 3^\circ\text{C}$; the RH should be $< 50\%$ and did not vary by more than $\pm 5\%$. 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 ($\mu\text{g}/\text{m}^3$)		Action Level, $\mu\text{g}/\text{m}^3$	Limit Level, $\mu\text{g}/\text{m}^3$
	Average	Range		
FLN-DMS1	93.4	49.6 – 168.2	303	500
FLN-DMS3	85.3	40.1 – 137.5	301	500
FLN-DMS5	63.0	33.9 – 107.0	279	500
KTN-DMS4(B)	71.2	35.1 – 198.4	297	500

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

Monitoring Station	Concentration ($\mu\text{g}/\text{m}^3$)		Action Level, $\mu\text{g}/\text{m}^3$	Limit Level, $\mu\text{g}/\text{m}^3$
	Average	Range		
FLN-DMS1	66.2	17.9 – 118.5	150	260
FLN-DMS3	35.1	11.8 – 50.6	165	260
FLN-DMS5A	67.9	44.0 – 110.6	153	260
KTN-DMS4(B)	56.2	45.9 – 67.1	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	Mobile crane, Excavator, piling, road traffic
FLN-DMS3	Excavator, piling, mobile crane, road traffic
FLN-DMS5	Road traffic
KTN-DMS4(B)	Excavator, piling, mobile crane, 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	3

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					
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.

L₁₀ is the level exceeded for 10% of the time. For 10% of the time, the sound or noise has a sound pressure level above L₁₀.

L₉₀ 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 : $L_{eq}(30 \text{ min.}) \text{ dB(A)}$
(as six consecutive $L_{eq, 5\text{min}}$ 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 – 69.1	69.9	75
ND/2019/04				
ND/2019/05	CP-FLN-NMS2 ^[2]	66.4 – 69.6	59.6	
ND/2019/01	CP-KTN-NMS2 ^[3]	56.0 – 60.8	58.6	
	CP-KTN-NMS3 ^[4]	49.2 – 55.0	51.6	
ND/2019/01	CP-KTN-NMS5	52.3 – 55.4	57.2	
ND/2019/02	CP-KTN-NMS6	57.1 – 64.2	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. One complaint on construction noise was received during the reporting month, therefore One Action Level exceedance was recorded. No Limit 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)	Excavator, dump truck, mobile crane, piling, road traffic
ND/2019/04			
ND/2019/05	CP-FLN-NMS2 ^[2]	Scattered Village House in Tong Hang (Existing)	Excavator, piling, dump truck, road traffic
ND/2019/01	CP-KTN-NMS2 ^[3]	Residential Buildings at Ma Tso Lung (Existing)	Dump truck, excavator, road traffic
ND/2019/01	CP-KTN-NMS3 ^[4]	Fung Kong Garden (Existing)	Road traffic
ND/2019/01	CP-KTN-NMS5	N/A	Road traffic
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

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
<ul style="list-style-type: none"> • Temperature(°C) • pH(pH unit) • turbidity (NTU) • water depth (m) • salinity (ppt) • DO (mg/L and % of saturation) • SS (mg/L) • Ammonia Nitrogen (NH₃-N) (mg NH₃-N/L) • Unionized Ammonia (UIA) (mg/L) • Nitrate-nitrogen (NO₃-N) (mg NO₃⁻-N/L) • Ortho-phosphate (PO₄) (mg PO₄³⁻-P/L) 	<ul style="list-style-type: none"> • 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 EquipmentInstrumentation

- 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	1

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	<ul style="list-style-type: none"> Temperature (°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) 	<ul style="list-style-type: none"> 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. 	3 days per week
River Indus and near Siu Hang San Tsuen Stream	NTR-CS1 NTR-IS1 SHST-IS2 MWR-IS3	<ul style="list-style-type: none"> Temperature (°C) pH (pH unit) Turbidity (NTU) Water depth (m) Salinity (ppt) Dissolved Oxygen (DO) (mg/L and % of saturation) Suspended Solids (SS) (mg/L) 	<ul style="list-style-type: none"> If water depth was less than 6m, mid-depth might be omitted. 	

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	1	0	0	2	0
NTR-IS1	Action Level	0	1	0	N/A	1	0
	Limit Level	1	0	0		1	0
SHST-IS2	Action Level	0	0	0		0	0
	Limit Level	1	0	0		1	0
MWR-IS3	Action Level	0	0	0		0	0
	Limit Level	2	1	0		3	0
Total	Action Level	0	1	0	0	1	0
	Limit Level	5	2	0	0	7	0

* Exceedances record date: 13/11/2024, 20/11/2024

Five (5) Limit Level for DO, One (1) Action Level and Two (2) Limit Level for turbidity of impact water quality monitoring were recorded. Exceedances were recorded on 13 and 20 November 2024. 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. Water mitigation measures at the nearby construction sites were observed implemented properly; and
3. No direct evidence showed that the exceedance was contributed by the works activities by ND/2019/02 as no related active construction works were undertaken on 20 November 2024 at the concerned location of the construction site.

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 10-3.1 Selection, Preparation and Extraction of Filter Material, Center for Environmental Research Information, Office of Research and Development, USEPA, June 1999; and
 - Compendium Method 10-3.5 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 m³/min. and 1.4 m³/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)
05/11/2024	KTN-DMS4(A)	4.99	9.36	11.7
11/11/2024		5.61		
15/21/2024		2.64		
21/11/2204		3.87		
27/11/2024		6.13		

- 6.15 All ambient arsenic monitoring was conducted as scheduled in the reporting month. During the reporting month, 1,226.1m³ of arsenic soil transported to soil treatment plant and 842.1m³ 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
Portable gas detector	Portable Biogas Analyzer IRCD4 (Serial No. M230814007)	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, construction vibration monitoring was conducted for built heritage features at HKT03 when 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)
EP-466/2013/A and EP-468/2013/A	ND/2019/02	HKT03	Entrance Gate	Home of Loving Faithfulness (Entrance Gate)

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
EP-466/2013/A and EP-468/2013/A	ND/2019/02	HKT03	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, 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 was 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 Copies of calibration certificates of the monitoring equipment employed by the Contractor of the construction vibration monitoring are attached in **Appendix C**.

Results and Observations

- 8.7 In the reporting month, construction vibration monitoring was carried out by the Contractor for the built heritage features at HKT03 on daily / bi-daily / weekly basis when 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: 4, 5, 12, 15, 19, 21, 28 and 29 November 2024

Date of night-time monitoring: 5 and 15 November 2024

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, 69 species of birds were recorded during the bird surveys within assessment area. Among the recorded birds, there were 28 species of waterbirds. The detailed list of waterbirds and all recorded birds are shown in **Appendices L1k and L1l** 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. In addition, Greater Painted-Snipe *Rostratula benghalensis* of Local Concern was also observed in shallow water habitat in the reporting month.

9.14 Minor defect 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	81	18	12	9
Mean abundance of <i>Ardeola bacchus</i> using Ng Tung River, Sheung Yue River and Shek Sheung River	26	8	6	4
Mean Abundance of Bird recorded in LVNP	1,564	772	540	386
Mean Abundance of <i>Ardeola bacchus</i> recorded in LVNP	25	14	10	7
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: <i>Ardea alba</i> , <i>Ardea cinerea</i> , <i>Egretta eulophotes</i> , <i>Egretta garzetta</i> , <i>Ardea intermedia</i> and <i>Phalacrocorax carbo</i>				

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. During the reporting Month, no aquatic fauna replicate surveys was carried out.

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

Monitoring Requirements and Protocol

- 9.28 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.
- 9.29 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

- 9.30 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 from the field signs observed.

- 9.31 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)

- 9.32 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.
- 9.33 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)

- 9.34 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

- 9.35 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: 20th & 26th November
2024

Monitoring Location

- 9.36 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.

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

Monitoring Parameters

- 9.38 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

- 9.39 During the survey, a total of 5 mammal species were recorded from transects. Two (2) species of conservation importance were recorded, namely *Cynopterus sphinx* and *Pipistrellus abramus*.
- 9.40 Domestic dogs, *Canis lupus familiaris*, were commonly found at T1, T4 and T6, where associated with human settlements, whilst domestic cats, *Felis catus*, were found at T1 and T5.
- 9.41 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).
- 9.42 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).
- 9.43 *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).
- 9.44 Bat species, *Cynopterus sphinx* was observed roosting in the tent-shaped shelter under fronds of Chinese Fan-palm during the monitoring at T1, whilst *Pipistrellus abramus* were recorded in flight at nighttime at all transects.

Herpetofauna (Amphibians and Reptiles)

- 9.45 Among the transects, a total of four (4) herpetofauna species were observed. No species of conservation importance was found. Species including frogs and geckos were recorded near wetland habitats and watercourse. Transects T1 had the highest species diversity among all transects.

Insects (Butterfly and Dragonfly)

- 9.46 During the insect survey, a total of thirty-four (34) butterfly species were recorded from transects. Four (4) species of butterfly recorded was of particular conservation interest. Transect T1 and T4 had recorded the highest butterfly diversity among all transects.
- 9.47 Ten (10) species of odonata were recorded in the reporting month. No species of particular conservation interest was found. Transects T1, T4, T5 & T6 had recorded 3 to 4 species of odonata. Transects T3 had the lowest species diversity among all transects.

9.48 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 L2 to L5**.

9.49 **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	Action Level	Limit Level
T1	2	1	NA	NA
T3	1	1	NA	NA
T4	1	1	NA	NA
T5	1	1	NA	NA
T6	1	1	NA	NA

9.50 **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	Action Level	Limit Level
T1	3	7	5	4
T3	2	3	2	1
T4	2	2	NA	1
T5	2	2	NA	1
T6	1	3	2	1

9.51 **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	Action Level	Limit Level
T1	21	8	6	4
T3	10	6	4	3
T4	21	5	4	3
T5	13	9	6	5
T6	10	8	6	4

9.52 **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	Action Level	Limit Level
T1	4	7	5	4
T3	1	6	4	3
T4	3	2	NA	1
T5	4	4	3	2
T6	4	6	4	3

9.53 Two (2) Action Level exceedance and Two (2) Limit Level exceedance was recorded in non-aquatic fauna monitoring during the reporting month.

9.54 For the monitoring conducted on 26th November 2024 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

9.55 Two (2) Action Level exceedance and Two (2) Limit Level exceedance for non-aquatic fauna were recorded at T1, T3 and T6. The exceedances recorded were for herpetofauna at T1 & T6, and for odonates at T1 & T3. 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. Future result will be continuously reviewed.

Details of the Influencing Factors

Major Activities

9.56 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.

- 9.57 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.
- 9.58 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.
- 9.59 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

- 9.60 According to the observation during survey, temperature and the rain flow records in the reporting month (Reference: <https://www.weather.gov.hk/wxinfo/pastwx/metob202411.htm>), weather conditions might pose influence towards the monitoring results.
- 9.61 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 <i>Supervisor's</i> Representative and the Contractor	5, 14, 19 and 26 Nov 24	6, 13, 20 and 27 Nov 24	5, 14, 19 and 26 Nov 24	7, 12, 21 and 27 Nov 24	4, 15, 21 and 25 Nov 24	N/A	4, 15, 18 and 25 Nov 24
Joint Site Audit with representative of the <i>Supervisor's</i> Representative, the Contractor and IEC	14 Nov 24	20 Nov 24	14 Nov 24	12 Nov 24	21 Nov 24	N/A	15 Nov 24

Remarks: 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.

- 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. The outstanding installation works were the short-duration works which would be completed within 2 months during the 1-year defect correction period, originally estimated.
- 10.4 Due to problems in material deliveries from Mainland China in 2022, the completion date of the outstanding works would be extended to June 2023 tentatively. However, in June 2023, more defects were found during the handover inspection so the rectification works were undertaken until July 2023 when all works were completed.
- 10.5 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.

Table 10.2 Observations and Recommendations during Site Audits

Parameters	Date	Observations and Recommendations	Follow-up
Contract No.: ND/2019/01			
<i>Air Quality</i>	29/10/2024	Mitigation measures i.e. Water Tank Truck patrol should be enhanced at the exposed site of Portion 8A.	Improvement/Rectification was observed during follow-up audit session on 5 November 2024.
	19/11/2024	Haul road at Portion 6A should be kept clean.	Improvement/Rectification was observed during follow-up audit session on 26 November 2024.
<i>Water Quality</i>	26/11/2024	The construction materials at the drainage channel at Portion 7/13 should be cleared.	Follow-up action is needed to be reported in the following month.
Contract No.: ND/2019/02			
<i>Water Quality</i>	30/10/2024	Contractors were reminded to immediately establish proper drainage system for pumped groundwater at Portion 7.	Item remarked as 241106-O01. Follow-up action is needed to be review.
	06/11/2024		Item remarked as 241113-O01. Follow-up action is needed to be review.
	13/11/2024		Item remarked as 241120-O01. Follow-up action is needed to be review.
	20/11/2024		Item remarked as 241127-O01. Follow-up action is needed to be review.
	27/11/2024		Follow-up action is needed to be reported in the following month.
	30/10/2024	Provide complete drainage system to treat wastewater. (Shek Wu Hui Treatment Plant works area)	Item remarked as 241106-R02. Follow-up action is needed to be review.
	06/11/2024		Item remarked as 241113-R02. Follow-up action is needed to be review.
	13/11/2024		Item remarked as 241120-R02. Follow-up action is needed to be review.
	20/11/2024		Item remarked as 241127-R02. Follow-up action is needed to be review.
	27/11/2024		Follow-up action is needed to be reported in the following month.

Parameters	Date	Observations and Recommendations	Follow-up
	30/10/2024	Enhance water mitigation measures to avoid surface runoff out of site boundary. (Portion 6)	Item remarked as 241106-R03. Follow-up action is needed to be review.
	06/11/2024		Item remarked as 241113-R03. Follow-up action is needed to be review.
	13/11/2024		Item remarked as 241120-R03. Follow-up action is needed to be review.
	20/11/2024		Item remarked as 241127-R03. Follow-up action is needed to be review.
	27/11/2024		Follow-up action is needed to be reported in the following month.
Air Quality	27/11/2024	Wheel washing facilities at Portion 11 near Ho Sheung Heung Pai Fung Road should be maintained properly to avoid dust and debris exceeds the site area.	Follow-up action is needed to be reported in the following month.
Ecology	30/10/2024	Dull green hoarding should be erected along the site boundary as according to the submitted location plan.	Item remarked as 241106-R01. Follow-up action is needed to be review.
	06/11/2024		Item remarked as 241113-R01. Follow-up action is needed to be review.
	13/11/2024		Item remarked as 241120-R01. Follow-up action is needed to be review.
	20/11/2024		Item remarked as 241127-R01. Follow-up action is needed to be review.
	27/11/2024		Follow-up action is needed to be reported in the following month.
Waste/Chemical Management	30/10/2024	Oil leakage was observed with no drip tray provided at Shek Wu Hui Treatment Plant works area. Potential risk of leakage exceeds site boundary.	Item remarked as 241106-O02. Follow-up action is needed to be review.
	06/11/2024		Item remarked as 241113-O02. Follow-up action is needed to be review.
	13/11/2024		Item remarked as 241120-O02. Follow-up action is needed to be review.
	20/11/2024		Improvement/Rectification was observed during follow-up audit session on 27 November 2024.
Contract No.: ND/2019/03			
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Parameters	Date	Observations and Recommendations	Follow-up
Contract No.: ND/2019/04			
<i>Air Quality</i>	12/11/2024	Site exit at Sha Tau Kok Road should be kept clean and free from tyre marks etc.	Improvement/Rectification was observed during follow-up audit session on 21 November 2024.
<i>Water Quality</i>	12/11/2024	Old drainage hole leads to Ng Tung River should be sealed to prevent seepage.	Improvement/Rectification was observed during follow-up audit session on 21 November 2024.
<i>Waste / Chemical Management</i>	07/11/2024	Drip tray should be provided for Fuel/Chemical containers at A2.	Improvement/Rectification was observed during follow-up audit session on 12 November 2024.
Contract No.: ND/2019/05			
<i>Waste / Chemical Management</i>	21/11/2024	Drip tray should be provided for fuel/chemical containers.	Improvement/Rectification was observed during follow-up audit session on 25 November 2024.
<i>Air Quality</i>	28/10/2024	Dusty stockpile near Bridge C1 should be covered by tarpaulin sheets entirely to prevent dust generation.	Improvement/Rectification was observed during follow-up audit session on 4 November 2024.
Contract No.: ND/2019/06			
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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 (October 2024)	Deficiencies recorded in the reporting month (November 2024)								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 (December 2024)								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	2	/	/	1	/	/	/	/	/	1
ND/2019/02	5	1	/	12	3	/	/	4	/	20	1	1	/	3	/	/	/	1	/	5
ND/2019/03	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
ND/2019/04	/	1	/	1	1	/	/	/	/	3	3	/	/	/	/	/	/	/	/	/
ND/2019/05	1	/	/	/	1	/	/	/	/	1	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.

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
<p><u>EP-466/2013/</u> <u>A</u></p>	<p>2.9</p>	 <p>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.</p>	<p>^_[1]</p>
<p><u>EP-467/2013/</u> <u>A</u></p>	<p>2.9</p>	 <p>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.</p>	<p>^_[1]</p>
<p><u>EP-468/2013/</u> <u>A</u></p>	<p>2.11</p>	 <p>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.</p>	<p>^_[1]</p>
<p><u>EP-469/2013</u></p>	<p>2.7</p>	 <p>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.</p>	<p>^_[1]</p>

<p>EP- 473/2013/ A</p>	<p>2.13</p>	 <p>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.</p>	<p>^_[1]</p>
<p>EP- 475/2013/ A</p>	<p>2.7</p>	 <p>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.</p>	<p>^_[1]</p>
<p>Implementation status:</p>		<p>^ 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</p>	

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	 <p data-bbox="448 808 820 842">Hard paved exposed slope surface</p>	 <p data-bbox="936 819 1394 882">Provision of maintenance for the drainage and sump pit around the construction site</p>
ND/2019/02	 <p data-bbox="480 1263 815 1296">Hard paved exposed haul road</p>	 <p data-bbox="1007 1263 1378 1296">Hard paved exposed slope surface</p>
ND/2019/03	 <p data-bbox="491 1675 826 1709">Hard paved exposed haul road</p>	 <p data-bbox="970 1675 1394 1709">Watering the main haul road regularly.</p>
ND/2019/04	 <p data-bbox="443 2087 874 2121">Concrete barrier along the site hoarding</p>	 <p data-bbox="948 2065 1442 2125">Deployment of silt curtain around works area in Ng Tung River</p>

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

Solid and Liquid Waste Management Status

- 10.8 Waste generated from Contract Nos. ND/2019/01, ND/2019/02, ND/2019/03, 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.
- 10.9 The amount of wastes generated by the construction works of the Contract Nos. ND/2019/01, ND/2019/02, ND/2019/03, 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.
- 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 was expected to be completed in 2023. 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

	
<p>Continuing agricultural practice in existing farmland to maintain habitats in Long Valley</p>	
	
<p><i>Open water Habitat</i> Creation of wetland with designated habitat for biodiversity conservation</p>	<p><i>Open water Habitat</i> Creation of wetland with designated habitat for biodiversity conservation</p>
	
<p>Planting of paddy rice to provide foraging ground for Yellow-breasted Bunting</p>	
	
<p>Enhancement of irrigation channel to provide reliable water source for farmland in Long Valley</p>	



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



Tundra Bean Goose, *Anser serrirostris*



Wet agricultural land

11 ENVIRONMENTAL NON-CONFORMANCE

Summary of Exceedances

- 11.1 Five (5) Limit Level for DO, One (1) Action Level and Two (2) 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, ambient arsenic, built heritage and landfill gas monitoring was recorded in the reporting month.
- 11.3 One (1) Action Level for construction noise monitoring was recorded. The summary of exceedance record in the reporting month is shown in **Appendix O**.
- 11.4 Ecological monitoring was carried out in the reporting month. Two (2) Action Level exceedance and Two (2) Limit Level exceedance for non-aquatic fauna were recorded at T1, T3 and T6. The exceedances recorded were for herpetofauna at T1 & T6, and for odonates at T1 & T3. 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 Three (3) environmental complaints were 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 (December 2024 to February 2025)	Location/ Working Period	Potential Environmental Impact	Recommended Mitigation Measures
ND/2019/01	(a) Excavation / Backfilling	Portion 6a, 7, 8a, 9b	<ul style="list-style-type: none"> - Construction Dust impact - Noise Impact (Construction Phase) - Water Quality Impact (Construction Phase) - Waste Management (Construction Waste) 	<p>Air</p> <ul style="list-style-type: none"> - 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. <p>Noise</p> <ul style="list-style-type: none"> - Regular inspect of construction plants in good condition.
	(b) Site formation	Portion 1c, 2, 5		
	(c) Construction of noise barrier	Portion 1c		
	(d) Construction of subway	Portion 2		
	(e) Sewage Works	Portion 7		
	(f) RC Construction of fresh water service reservoir	Portion 8a		
	(g) Construction of receiving pit	NIL		
	(h) Operation of HAC treatment facility	Portion 6b		
	(i) Drainage works / watermains works	Portion 1a, 1c, 2, 3, 5, 6a, 7, 8a, 8b, 9b		

	(j) Road works/ Road pavement construction	Portion 2, 6a,7, 8a		<ul style="list-style-type: none"> - 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. <p>Water</p> <ul style="list-style-type: none"> - 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. <p>Waste / Chemical Management</p> <ul style="list-style-type: none"> - 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	Portion 8b			
(m) Ground treatment	Portion 8b			
(n) Sheet piling/ ELS & pipe pile	Portion 1a, 3, 9b			
(o) Stockpile of soil	Portion 13			

				<ul style="list-style-type: none"> - 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	<ul style="list-style-type: none"> - 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	Portion 10, 4, 8	Air, Noise, Waste	
	(c) Concreting	Portions 4, 8, 10	Air, Noise, Water, Waste, Ecology	
	(d) Bedding & Pipe Laying	Portion 5, 6	Air, Noise, Water, Waste, Ecology	
	(e) ELS	Portions 4, 10	Air, Noise, Water, Waste, Ecology	
	(f) Sheet Pile Removal	NIL	NIL	
	(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	(a) Excavation & ELS	Portion 1, 1A, 2, 3, 4, 4A, 4B, 5, 5A	<ul style="list-style-type: none"> - Waste - Air pollution - Noise pollution 	<ul style="list-style-type: none"> - Dusty works should be sprayed with water or stockpile should be covered by Tarpaulin properly.

	(b) Site Clearance	Sections 7, 8 and 9	- Waste - Air pollution - Noise pollution	- Plants should have maintenance to prevent dark smoke and oil leakage. Idle plant should be turned off.
	(c) Tree Felling	Sections 6, 7, 8 and 9	- Waste - Air pollution - Noise pollution	- 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.
ND/2019/04	(a) Rebar Fixing, formwork erection and scaffolding erection	Bridge F, A1, A2, A3, Portion J, K, H	- Air, Noise, Waste	- Dusty works should be sprayed with water or stockpile should be covered by tarpaulin properly.
	(b) Pile cap	Bridge G, Portion J and K	- Air, Noise, Water, Waste	- Plants should have maintenance to prevent dark smoke and oil leakage. Idle plant should be turned off.
	(c) Grouting	Bridge F, A1, A2, A3 and Portion J, K, H	- Air, Noise, Water, Waste	- Drip tray should be provided for all chemical and stationary plants.
	(d) Sheet piling removal	NIL	- NIL	- No construction works shall be carried out in restricted hours (7:00 pm to 7:00 am) unless CNP is granted.
	(e) Excavation & ELS	Portion J, H, K	- Air, Noise, Waste	- Waste should be sorted and disposed according to Waste Management Plan.
	(f) Road works	Portion B, J, H	- Air, Noise, Waste	- No direct discharge of wastewater into storm water drains is allowed. Wastewater must be desilted before discharging according to water discharge license.
	(g) Pre-drilling	NIL	- NIL	

	(h) Sheet piling	Bridge A1, A2	- Air, Noise, Waste	
	(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	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 50m ³ 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
	(b) Cap Construction	E3-04a, E3-04b, E4-01 and E4-02	- Noise Impact - Water Quality Impact	
	(c) Cross head construction	B2-01, B2-02 and B2-03	(Construction Phase)	
	(d) Pier / Pier head Construction	D2-01 and E305M	- Waste Management (Construction Waste)	
	(e) Fabrication for segment	C2, C1, D1, D2, E1, E4	- Landscape and Visual	
	(f) Form Traveler	E3-01 construction 3 rd to 6 th pair E2-02 construction 14 th pair & dismantling of FT1 D2-02 construction 6 th to 8 th pair D2-03 construction 2 nd pair to 4 th pair E2-01 erection of 5 th set of form traveler.	- Cultural Heritage	
	(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		<p>stockpiles to enhance reuse or recycling of materials and their proper disposal.</p> <ul style="list-style-type: none"> - Sort out demolition debris and excavated 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 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. - Conducting Construction Vibration Monitoring - Tree Protection & Preservation Existing trees to be retained within the Project Site should be carefully protected during construction. In particular OVTs will be
	(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		

				<p>preserved according to ETWB Technical Circular (Works) No. 29/2004.</p> <ul style="list-style-type: none"> - 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, 4, 5	<ul style="list-style-type: none"> - Construction Dust Impact - Noise Impact - Water Quality Impact (Construction Phase) - Waste Management (Construction Waste) - Landscape and Visual 	<ul style="list-style-type: none"> - 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,
	(b) C&D waste disposal	Portion 1, 2, 4		
	(c) Filling works	Portions 2, 4		
	(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, 4		

				<p>construction materials or debris being washed into the drainage system.</p> <ul style="list-style-type: none"> - 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. - 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
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				<p>with the Waste Disposal (Chemical Waste) (General) Regulation.</p> <ul style="list-style-type: none"> - Tree Protection & Preservation – Existing 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.
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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 November 2024 in accordance with the Updated EM&A Manual.
- 13.2 Five (5) Limit Level for DO, One (1) Action Level and Two (2) Limit Level for turbidity of impact water quality monitoring were recorded.
- 13.3 One (1) Action Level for Construction Noise Monitoring was recorded in the reporting month. No Action/Limit Level exceedance for air quality, water quality, ambient arsenic, landfill gas monitoring and build heritage monitoring was recorded in the reporting month.
- 13.4 Two (2) Action Level exceedance and two (2) Limit Level exceedance for non-aquatic fauna were recorded at T1, T3 and T6.

Contract No. ND/2019/01

- 13.5 Environmental site inspections were conducted on 5, 14, 19 and 26 Nov 24 by ET in the reporting month.

Contract No. ND/2019/02

- 13.6 Environmental site inspections were conducted on 6, 13, 20 and 27 Nov 24 by ET in the reporting month.

Contract No. ND/2019/03

- 13.7 Environmental site inspections were conducted on 5, 14, 19 and 26 Nov 24 by ET in the reporting month.

Contract No. ND/2019/04

- 13.8 Environmental site inspections were conducted on 7, 12, 21 and 27 Nov 24 by ET in the reporting month.

Contract No. ND/2019/05

- 13.9 Environmental site inspections were conducted on 4, 15, 21 and 25 Nov 24 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 4, 15, 18 and 25 Nov 24 by ET in the reporting month.
- 13.12 Three (3) environmental complaints were 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 banded. 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.

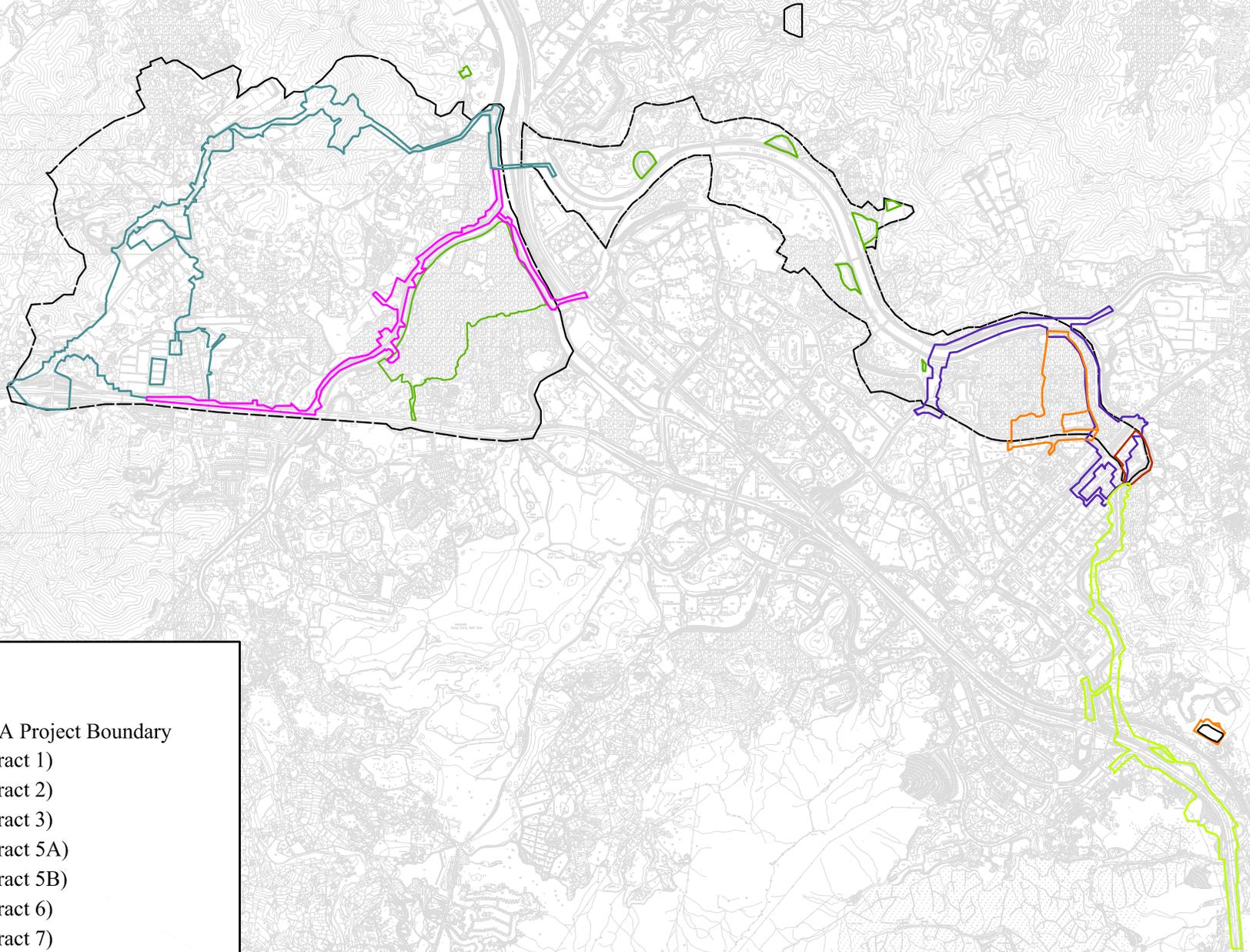
Ecology

- 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)

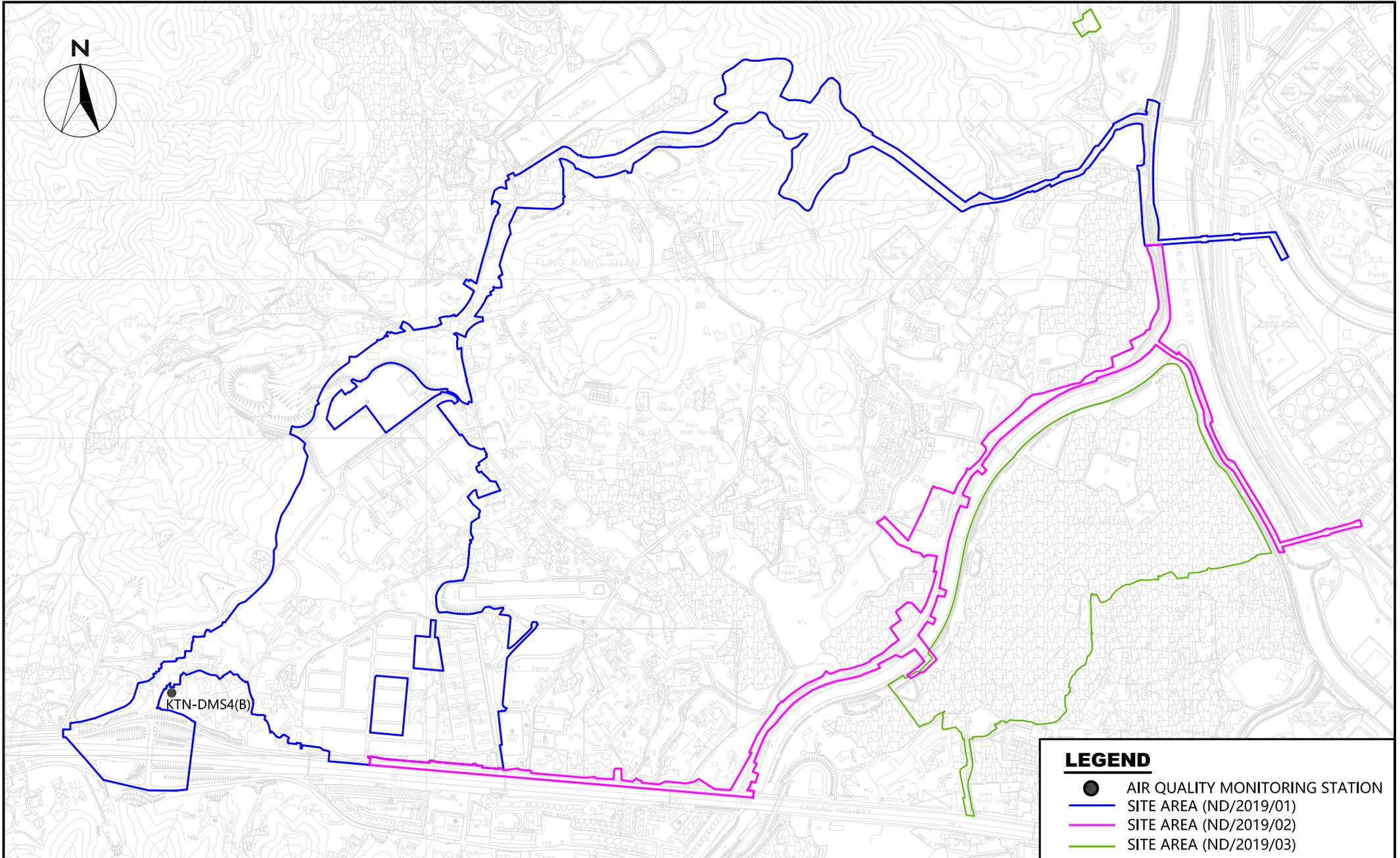


LEGEND

- KTN and FLN NDA Project Boundary
- ND/2019/01 (Contract 1)
- ND/2019/02 (Contract 2)
- ND/2019/03 (Contract 3)
- ND/2019/04 (Contract 5A)
- ND/2019/05 (Contract 5B)
- ND/2019/06 (Contract 6)
- ND/2019/07 (Contract 7)

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Project No.	WMA20002	Drawing No.	1
		REV	-

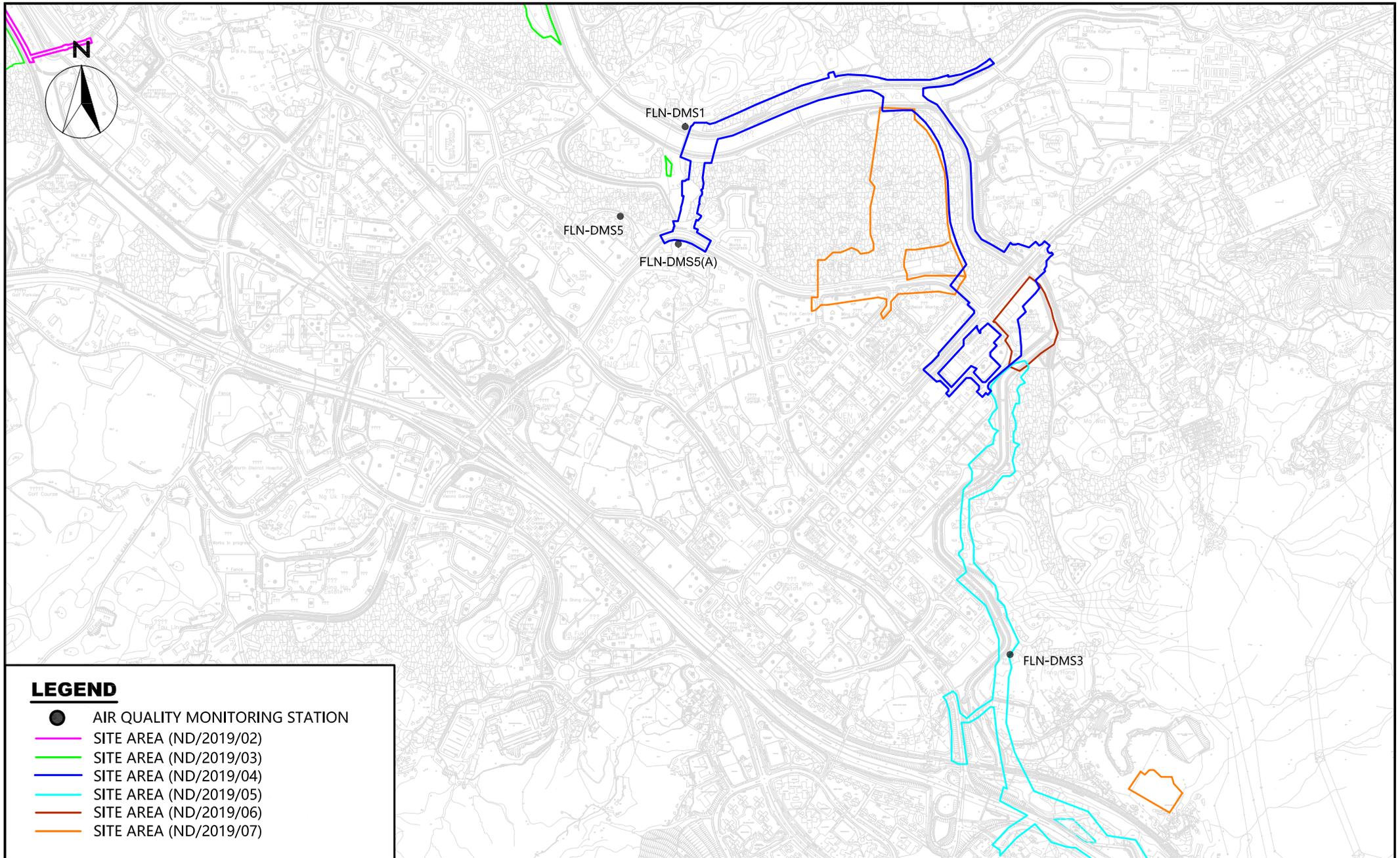
FIGURE(S)



LEGEND

- AIR QUALITY MONITORING STATION
- SITE AREA (ND/2019/01)
- SITE AREA (ND/2019/02)
- SITE AREA (ND/2019/03)

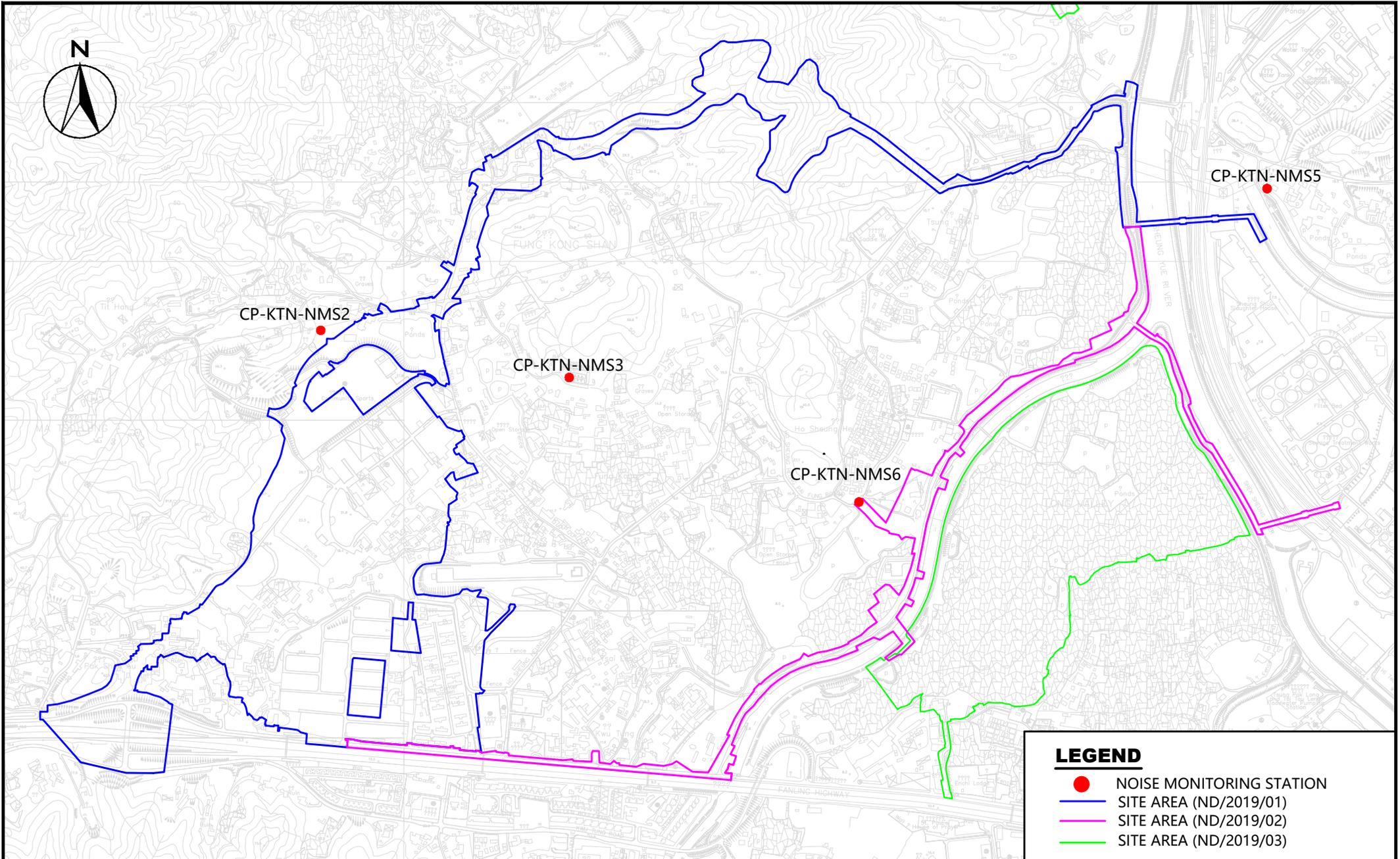
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PROJECT No.	WMA20002	FIGURE NO.	1	REV —



LEGEND

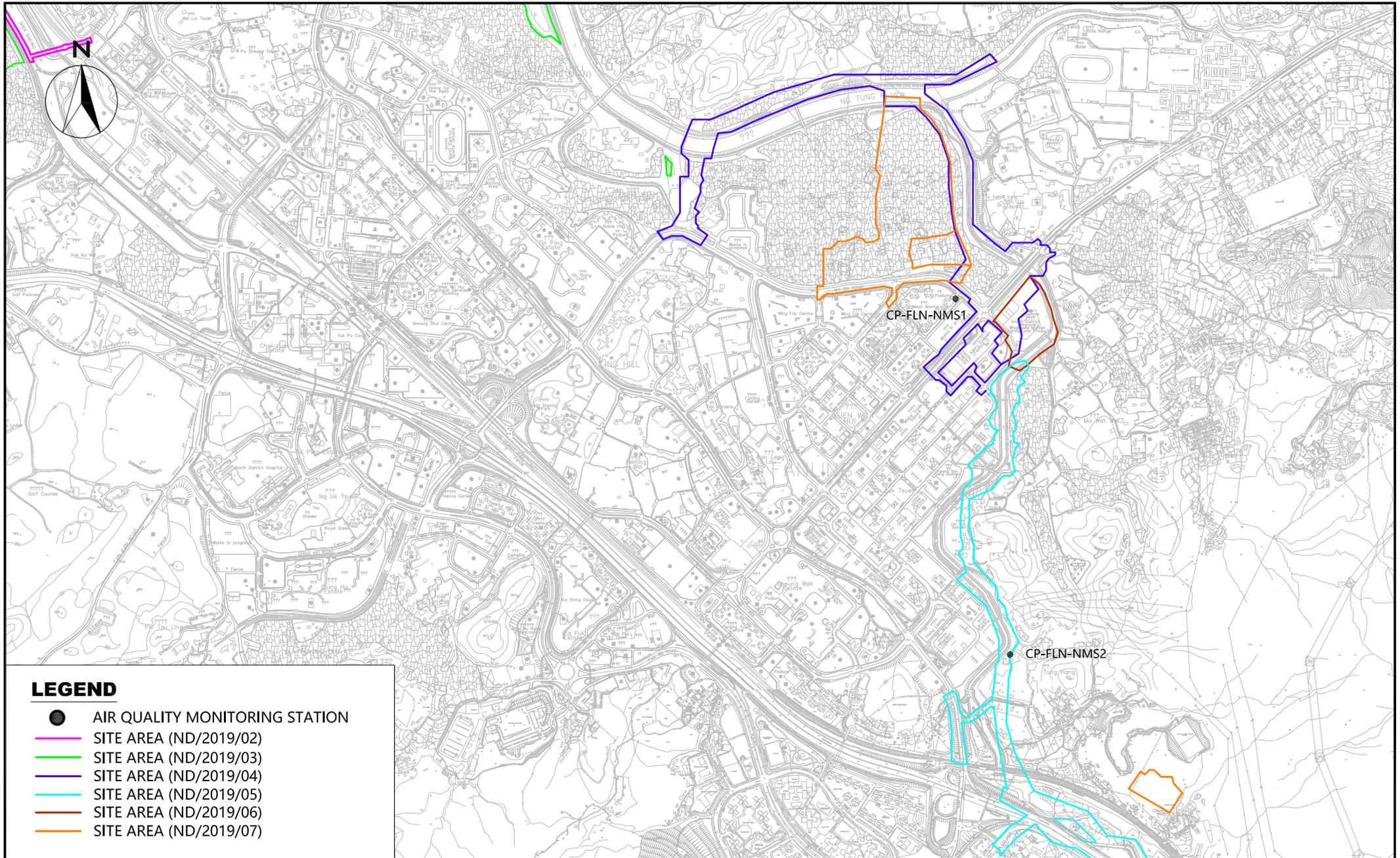
- AIR QUALITY MONITORING STATION
- SITE AREA (ND/2019/02)
- SITE AREA (ND/2019/03)
- SITE AREA (ND/2019/04)
- SITE AREA (ND/2019/05)
- SITE AREA (ND/2019/06)
- SITE AREA (ND/2019/07)

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



LEGEND			
●	NOISE MONITORING STATION		
—	SITE AREA (ND/2019/01)		
—	SITE AREA (ND/2019/02)		
—	SITE AREA (ND/2019/03)		

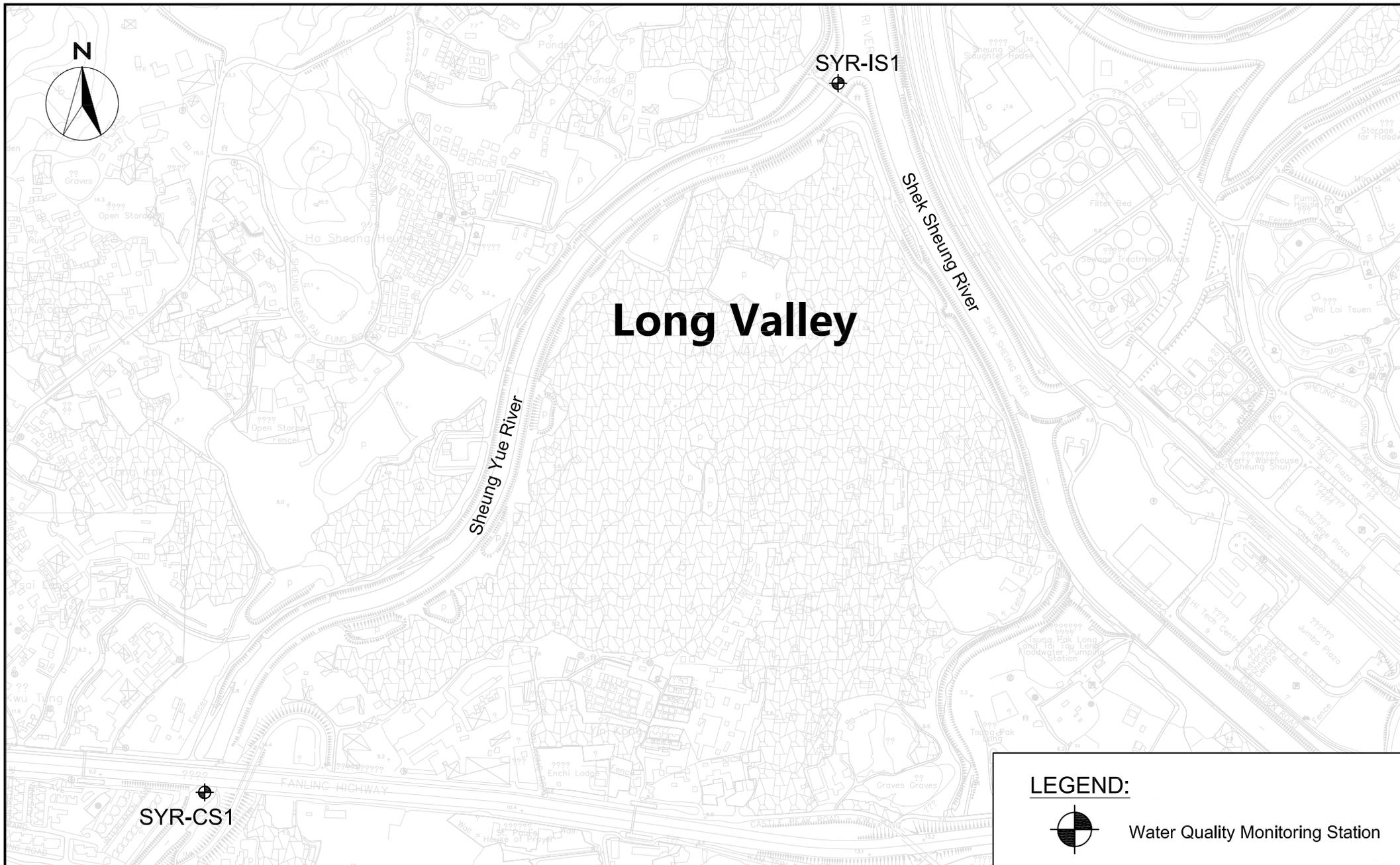
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PROJECT No.	WMA20002	FIGURE No.	3	REV —



LEGEND

- AIR QUALITY MONITORING STATION
- SITE AREA (ND/2019/02)
- SITE AREA (ND/2019/03)
- SITE AREA (ND/2019/04)
- SITE AREA (ND/2019/05)
- SITE AREA (ND/2019/06)
- SITE AREA (ND/2019/07)

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



Long Valley

LEGEND:



Water Quality Monitoring Station



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 —



Siu Hang San Tsuen Stream

SHST-IS2

NTR-CS1

MWR-IS3

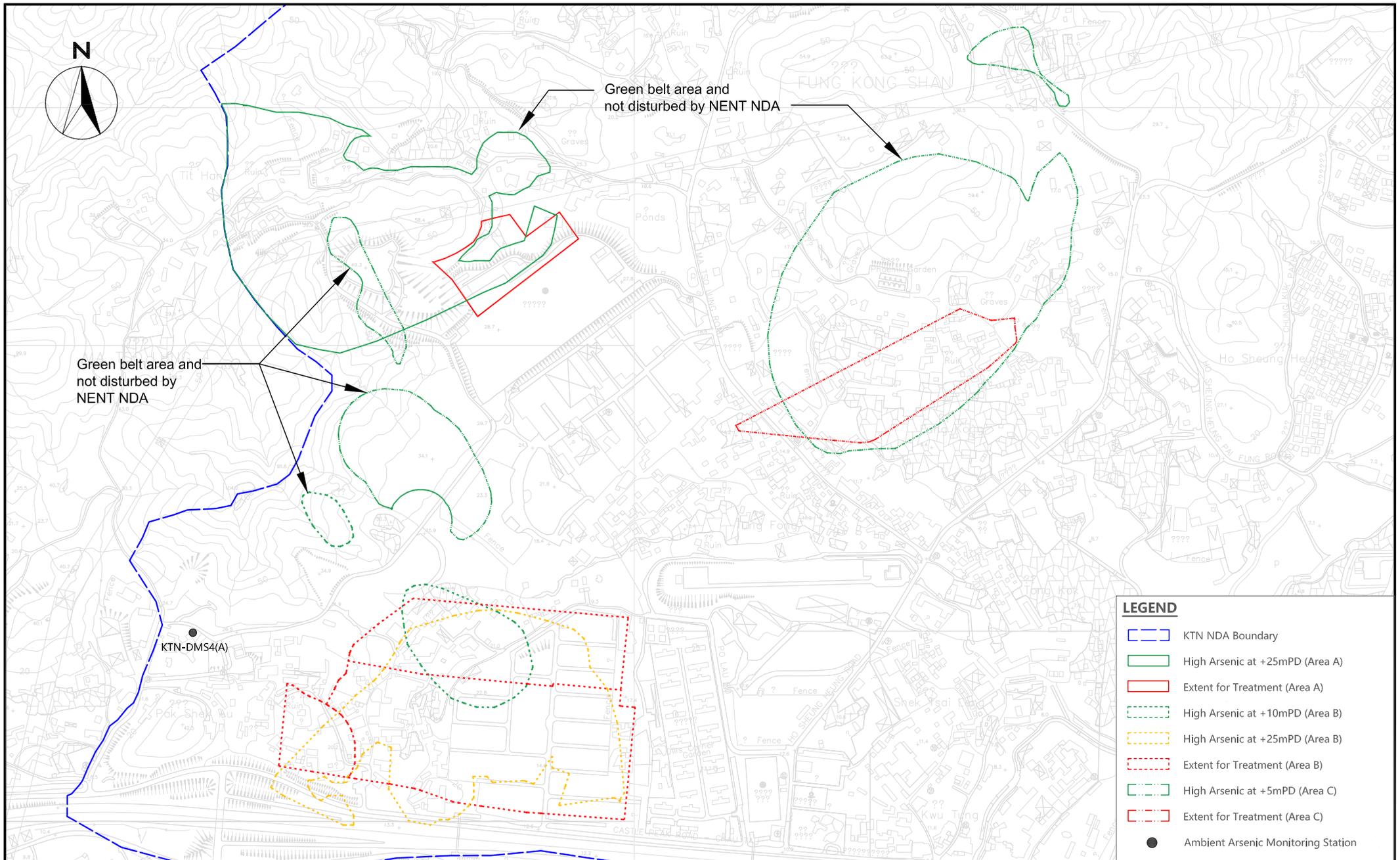
NTR-IS1

LEGEND:

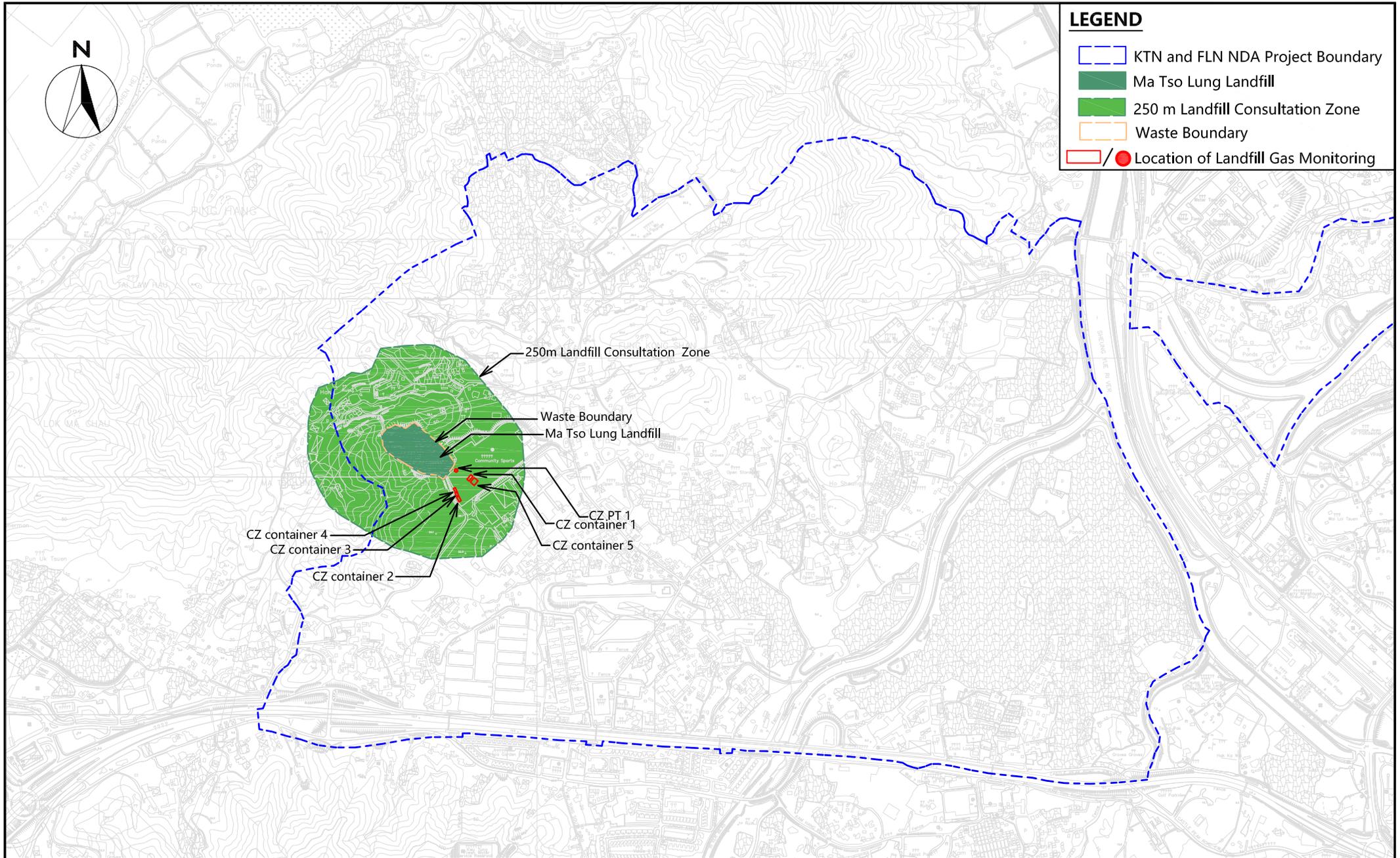


Water Quality Monitoring Station

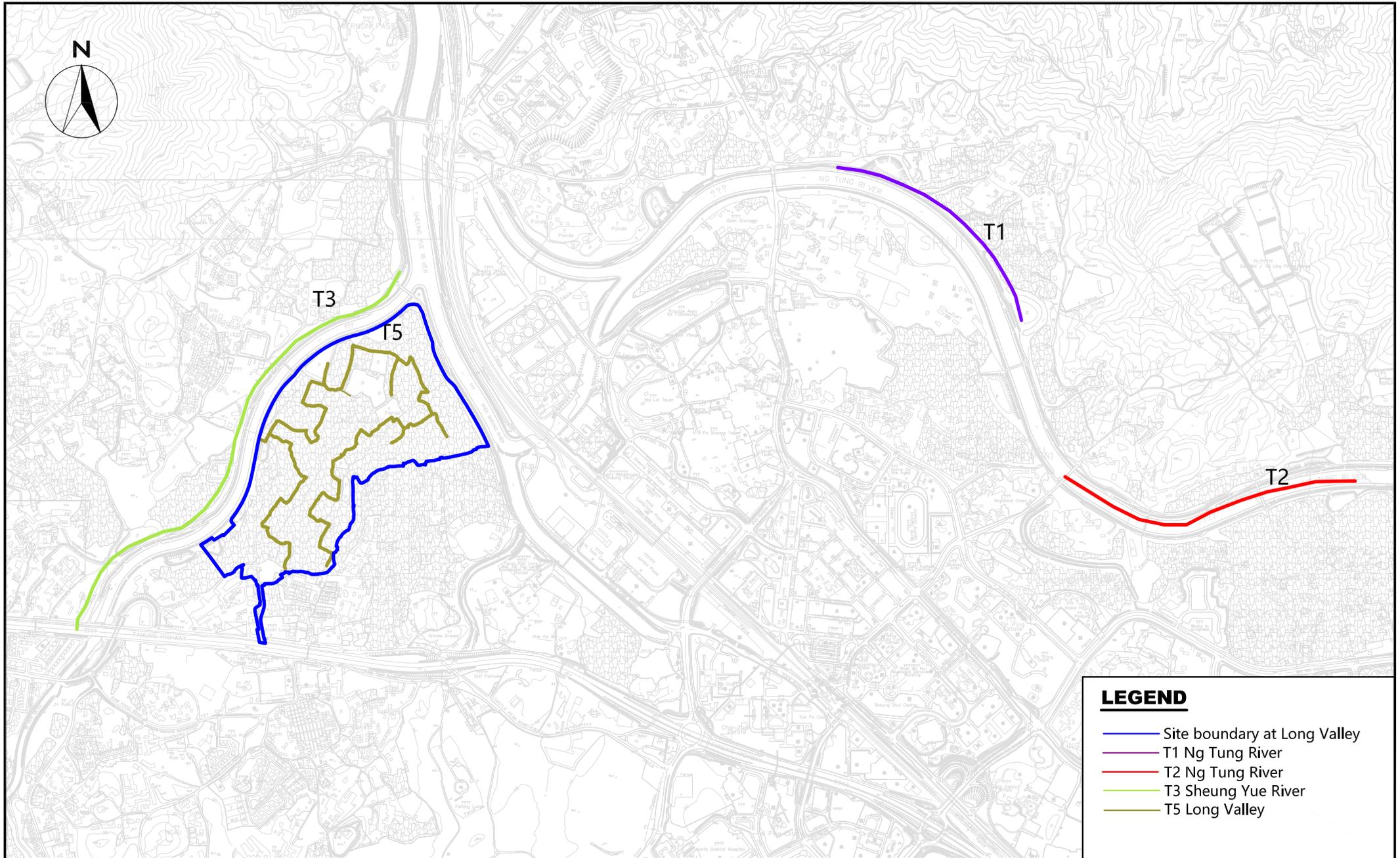
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PROJECT No.	WMA20002	FIGURE NO.	6	REV —



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



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



LEGEND

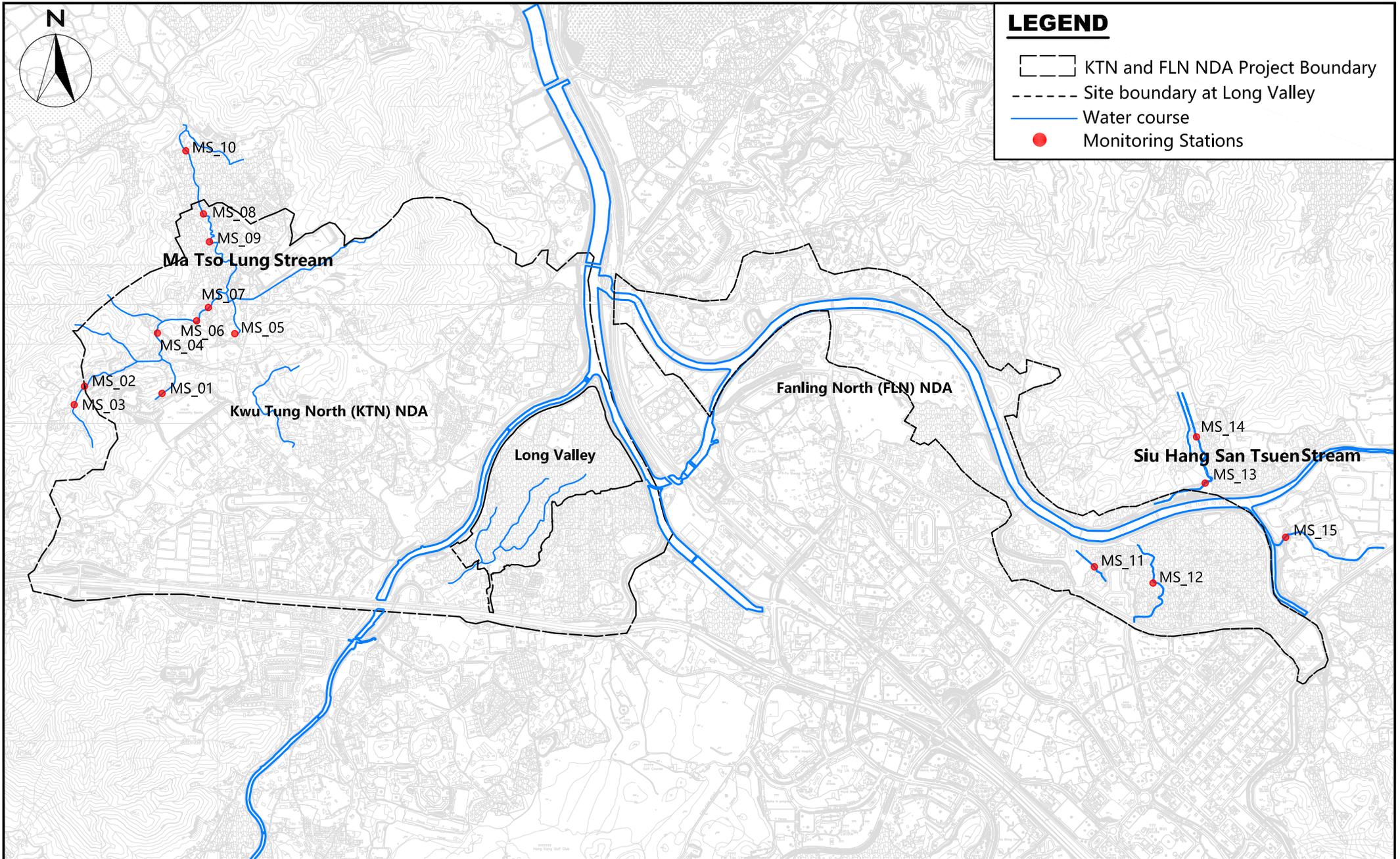
- Site boundary at Long Valley
- T1 Ng Tung River
- T2 Ng Tung River
- T3 Sheung Yue River
- T5 Long Valley

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PROJECT No.	WMA20002	FIGURE NO.	9	REV —

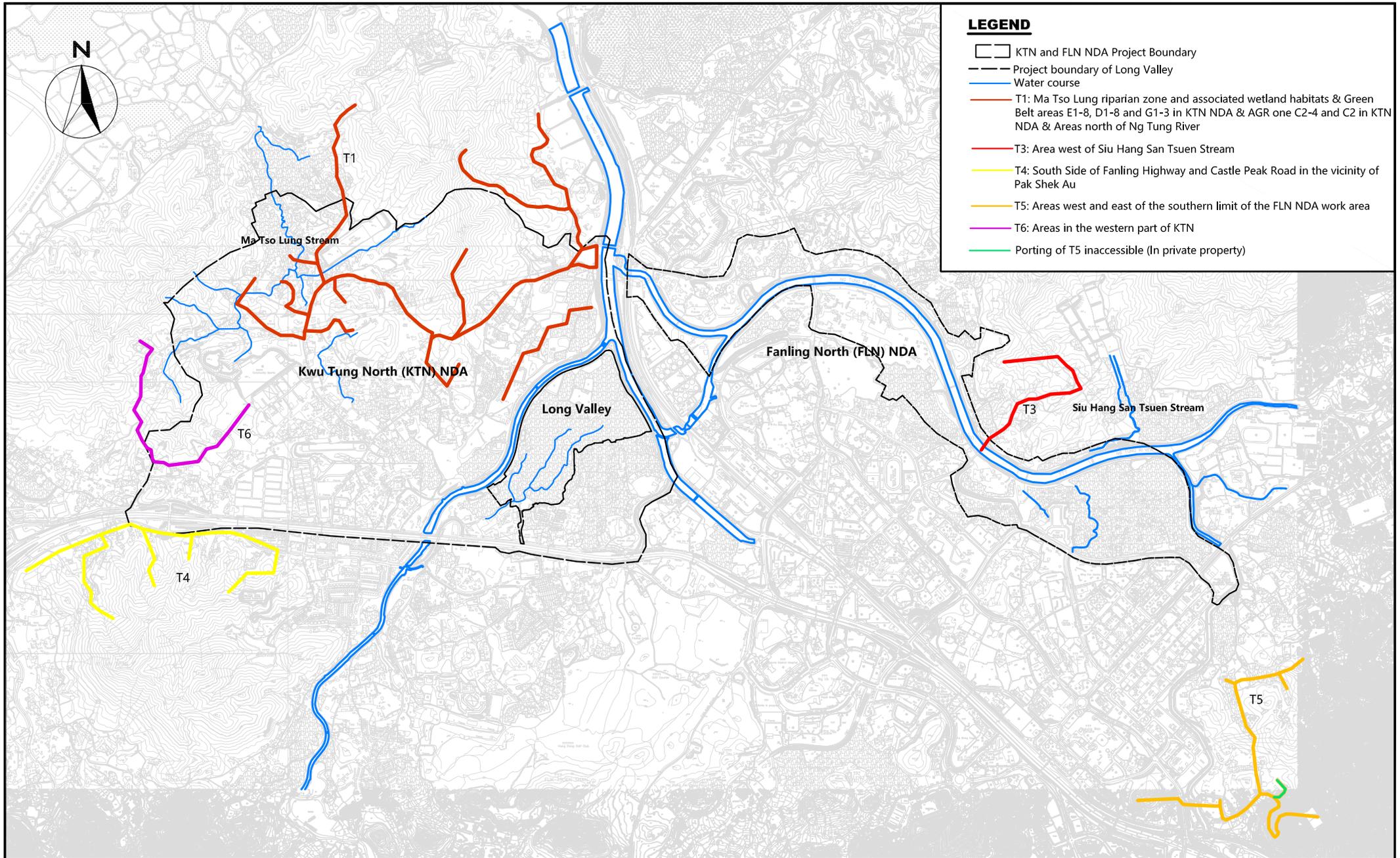


LEGEND

- KTN and FLN NDA Project Boundary
- Site boundary at Long Valley
- Water course
- Monitoring Stations



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PROJECT No.	WMA20002	FIGURE NO.	10	REV —

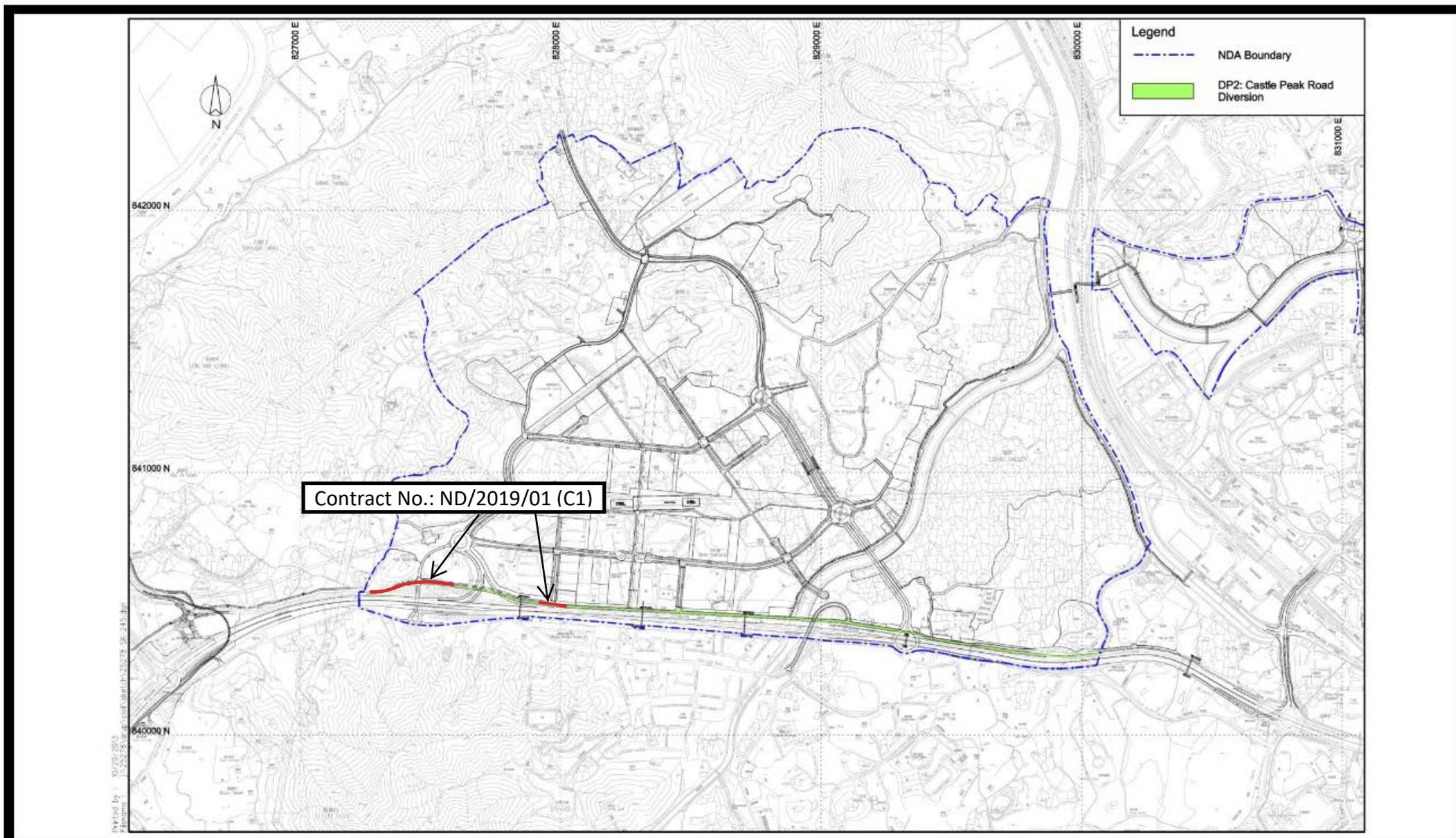


SCALE	A4 @ 1:70000	DATE	JUL 2021	
CHECK	KL	DRAWN	ML	
PROJECT No.	WMA20002	FIGURE NO.	11	REV —

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)

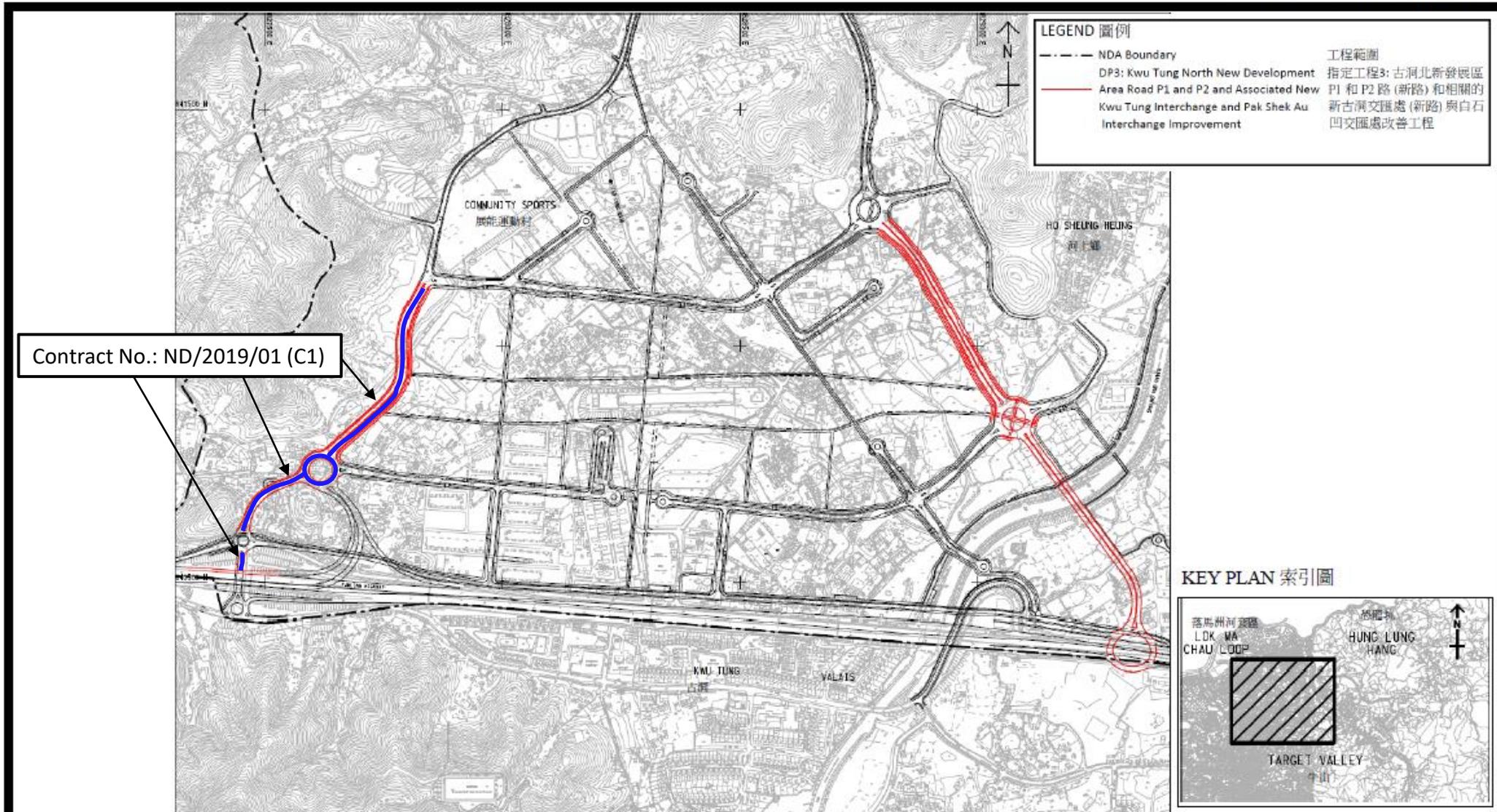
**Environmental Permit No:
EP-466/2013/A**



Figure 13

Site Layout Plan of Contract ND/2019/01

under EP-467/2013/A



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

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



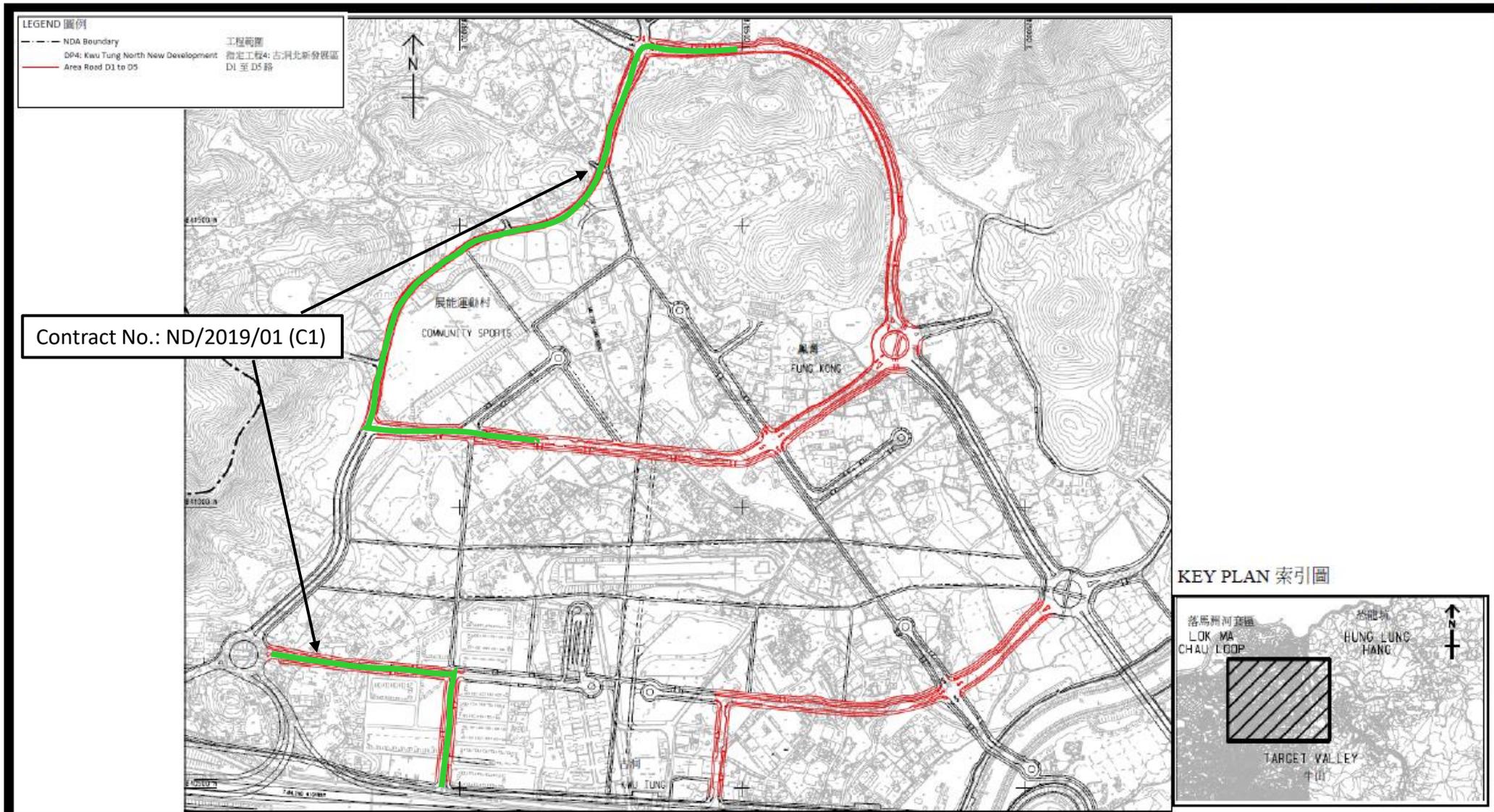
Figure 1: Location Plan for Interchange Improvement (Indicative)
 (This figure was prepared based on Figure 1.2 of VEP application (No.: VEP-523/2016))

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)

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



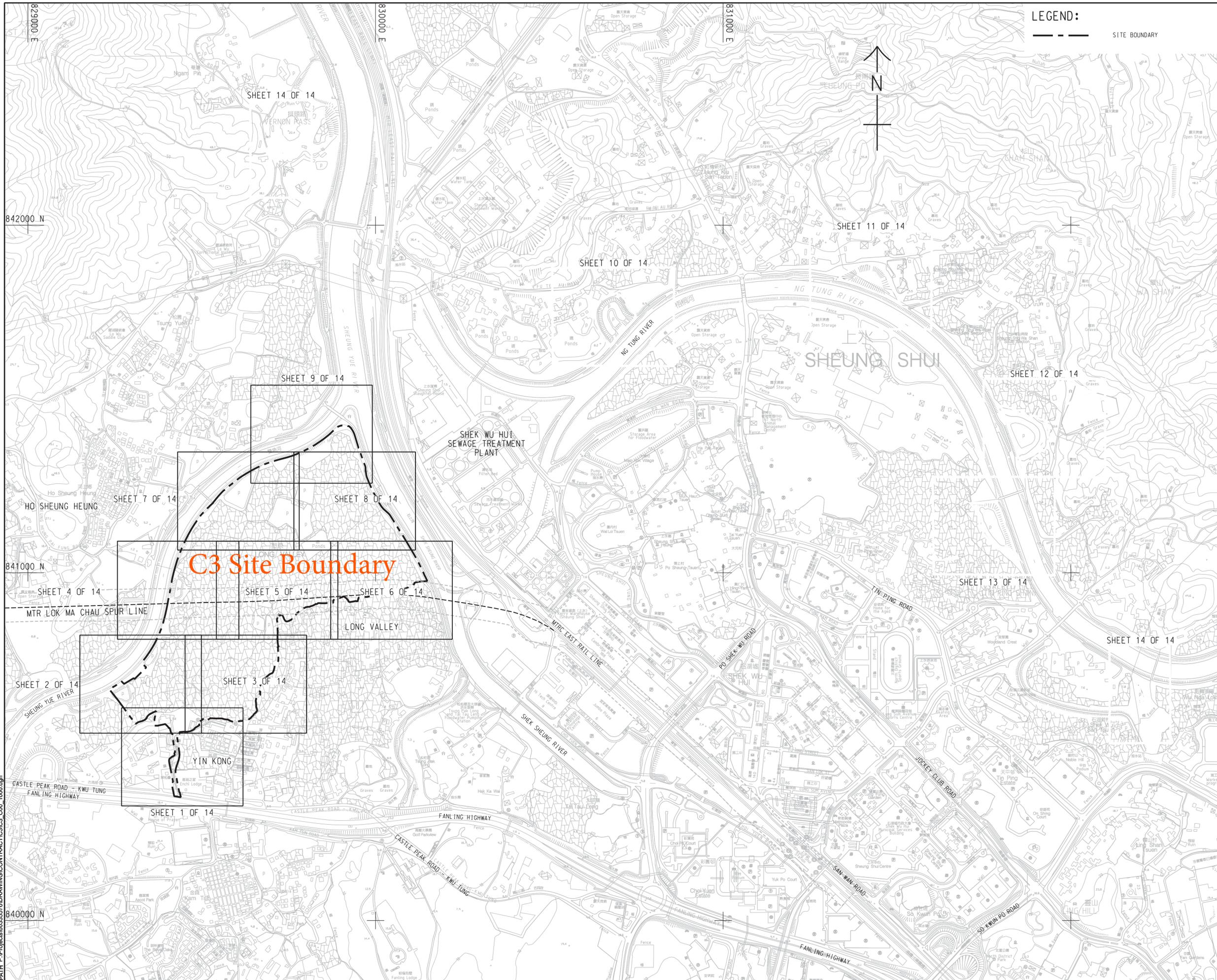
Figure 1: Location Plan for The Project (Indicative)
 (This figure was prepared based on Figure 1.4 of VEP application (No.: VEP-524/2016))

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



LEGEND:
 - - - - - SITE BOUNDARY

Sang Hing - Kuly Venture

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

CLIENT
 土木工務拓展署
CEDD Civil Engineering and Development Department

CONSULTANT
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ISSUE/REVISION

NO.	DATE	DESCRIPTION	CHK.
-	JUN-19	TENDER DRAWING	CYCH

STATUS
 備註

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

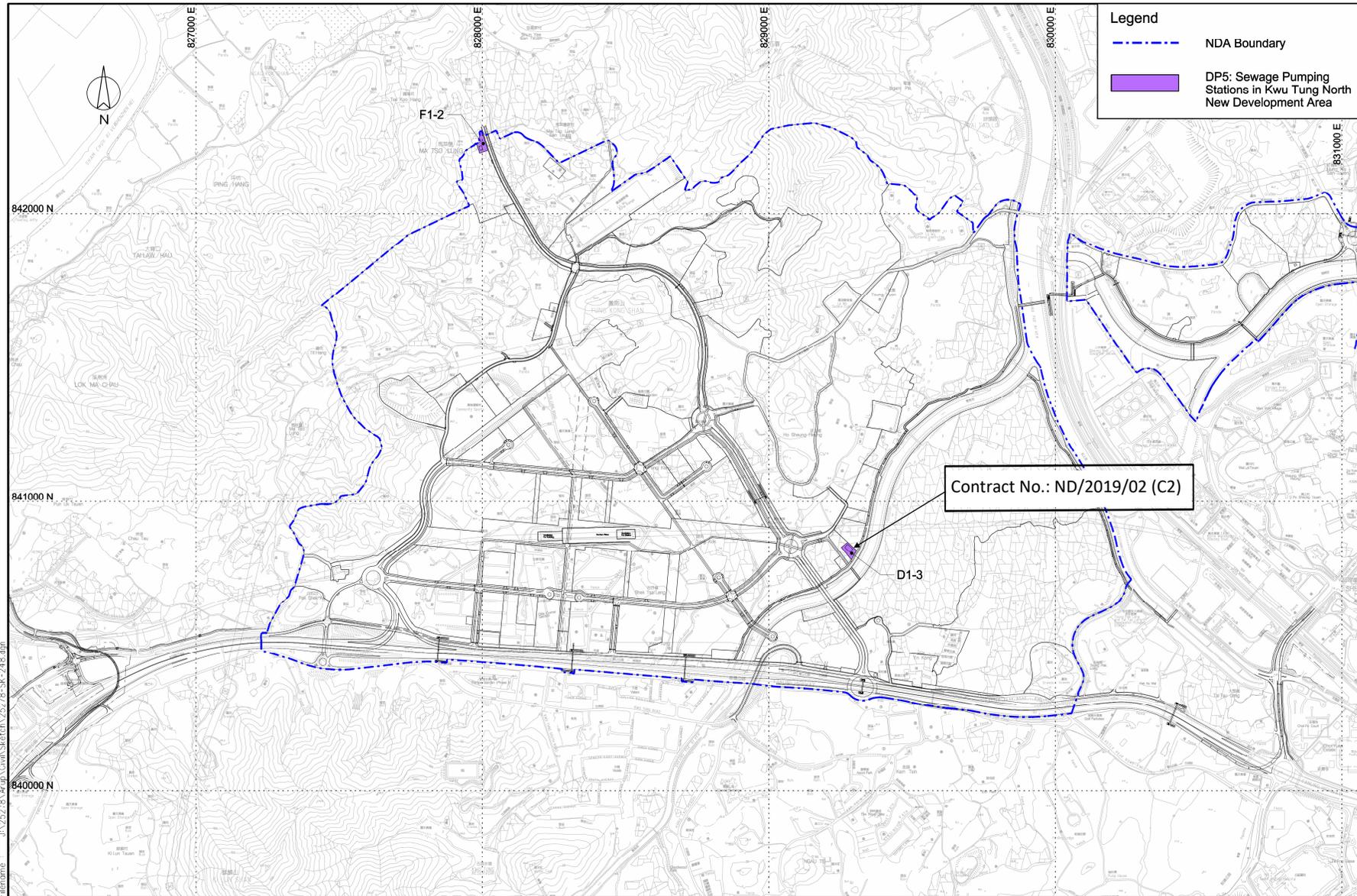
SHEET NUMBER
 圖紙編號: 60335576/C3/C00/1000

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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)

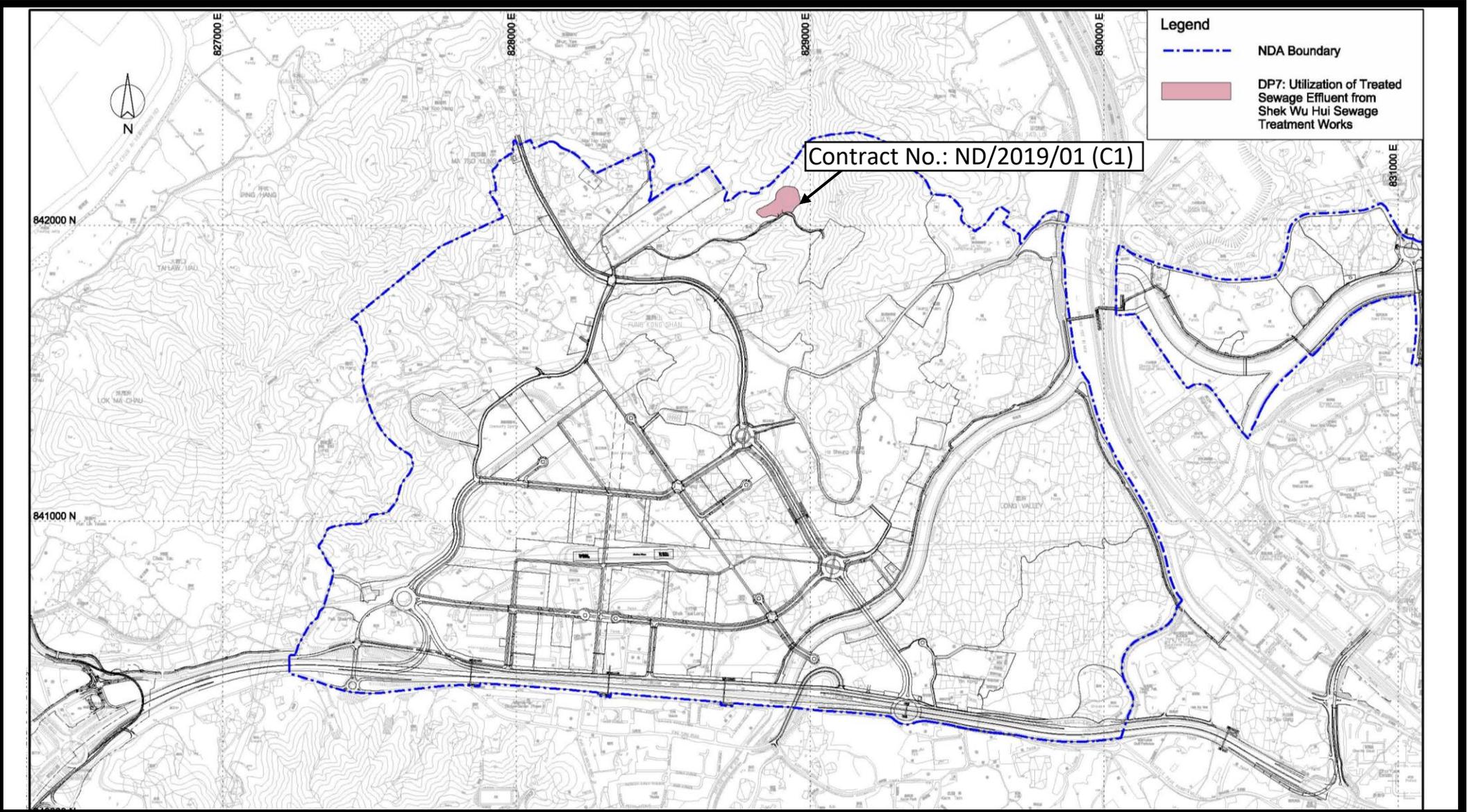
**Environmental Permit No:
EP-469/2013**



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)

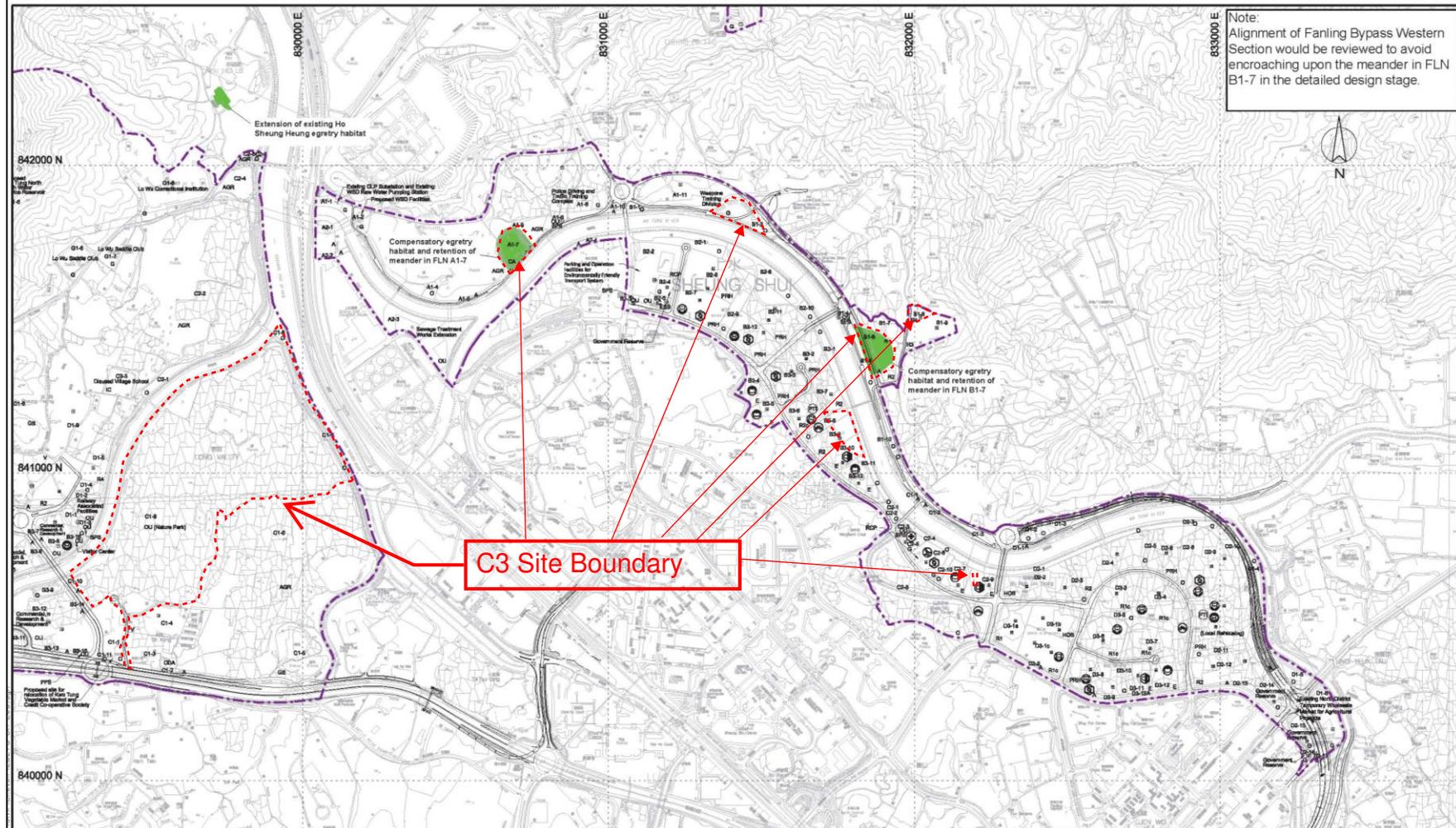
**Environmental Permit No:
EP-470/2013/A**



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 Egret 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

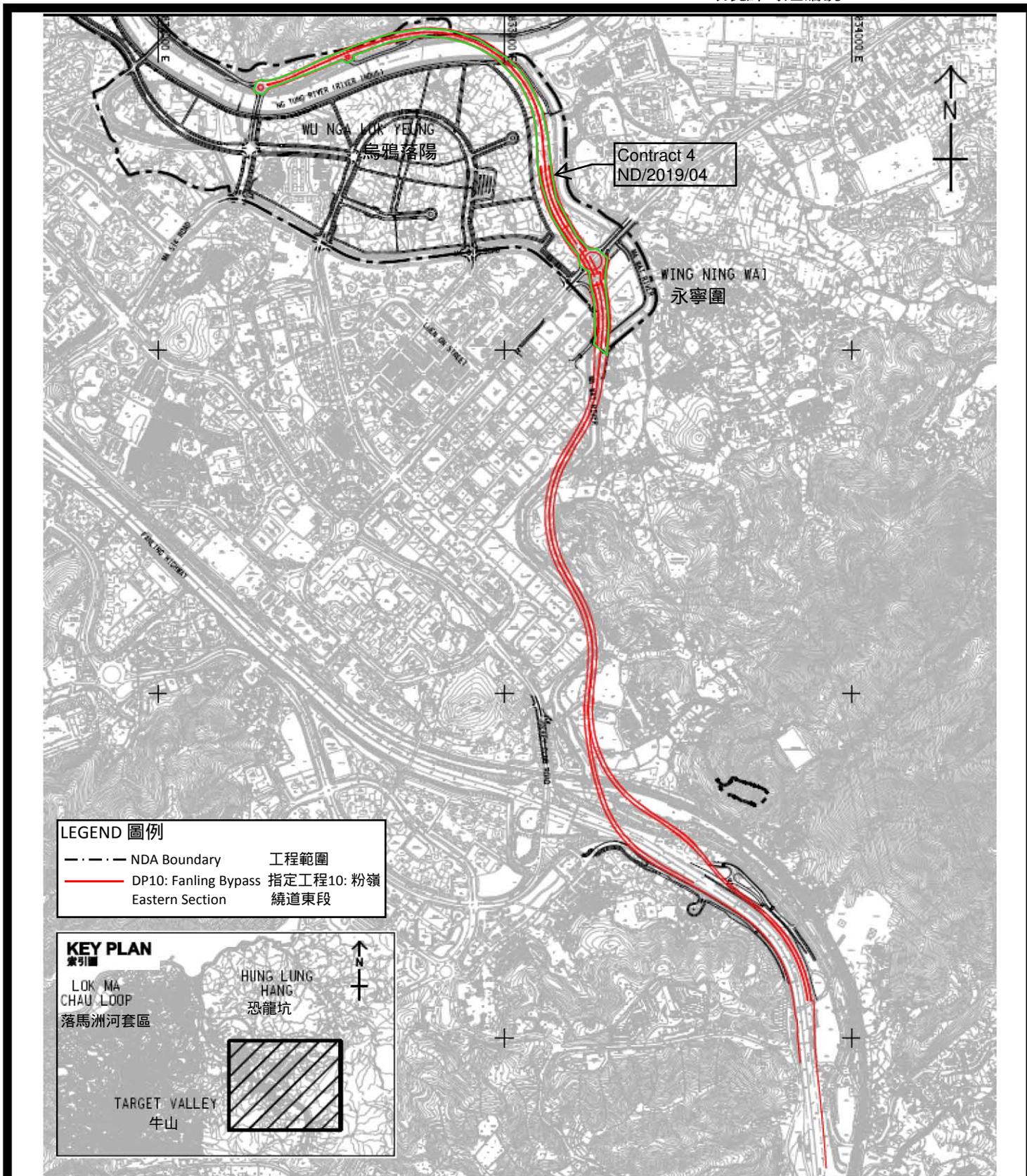
環境許可證編號: EP-473/2013/A



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

Environmental Permit No:

EP-473/2013/A

環境許可證編號:

EP-473/2013/A

Figure 1: Location Plan for the Project (Indicative)

圖 1: 工程項目位置 (示意圖)

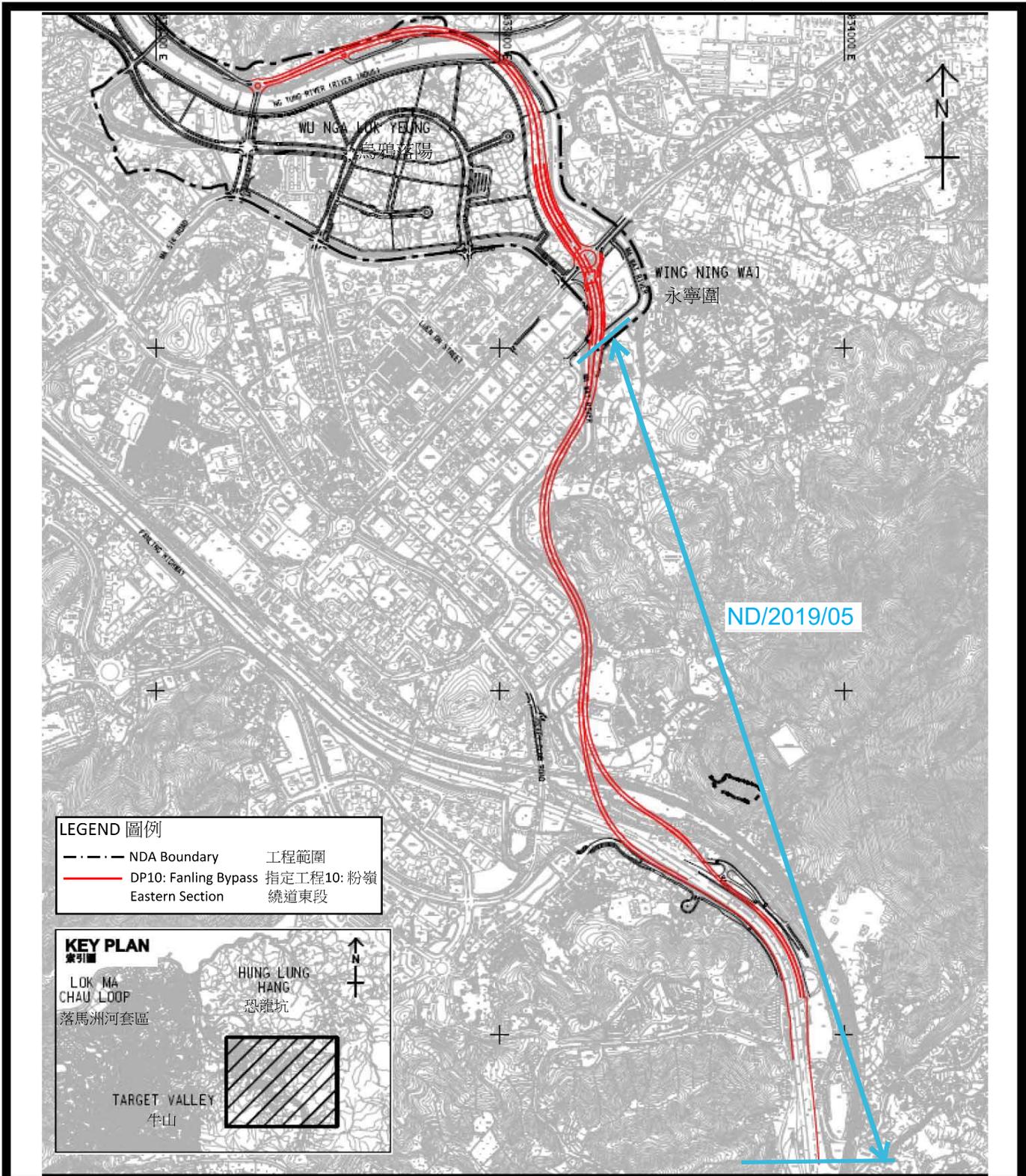
This figure was prepared based on Figure 1.1 of VEP application (No.:VEP-526/2016)
 本圖是根據申請更改環境許可證(編號: VEP-526/2016)圖1.1編制



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

Environmental Permit No:

EP-473/2013/A

環境許可證編號:

EP-473/2013/A

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

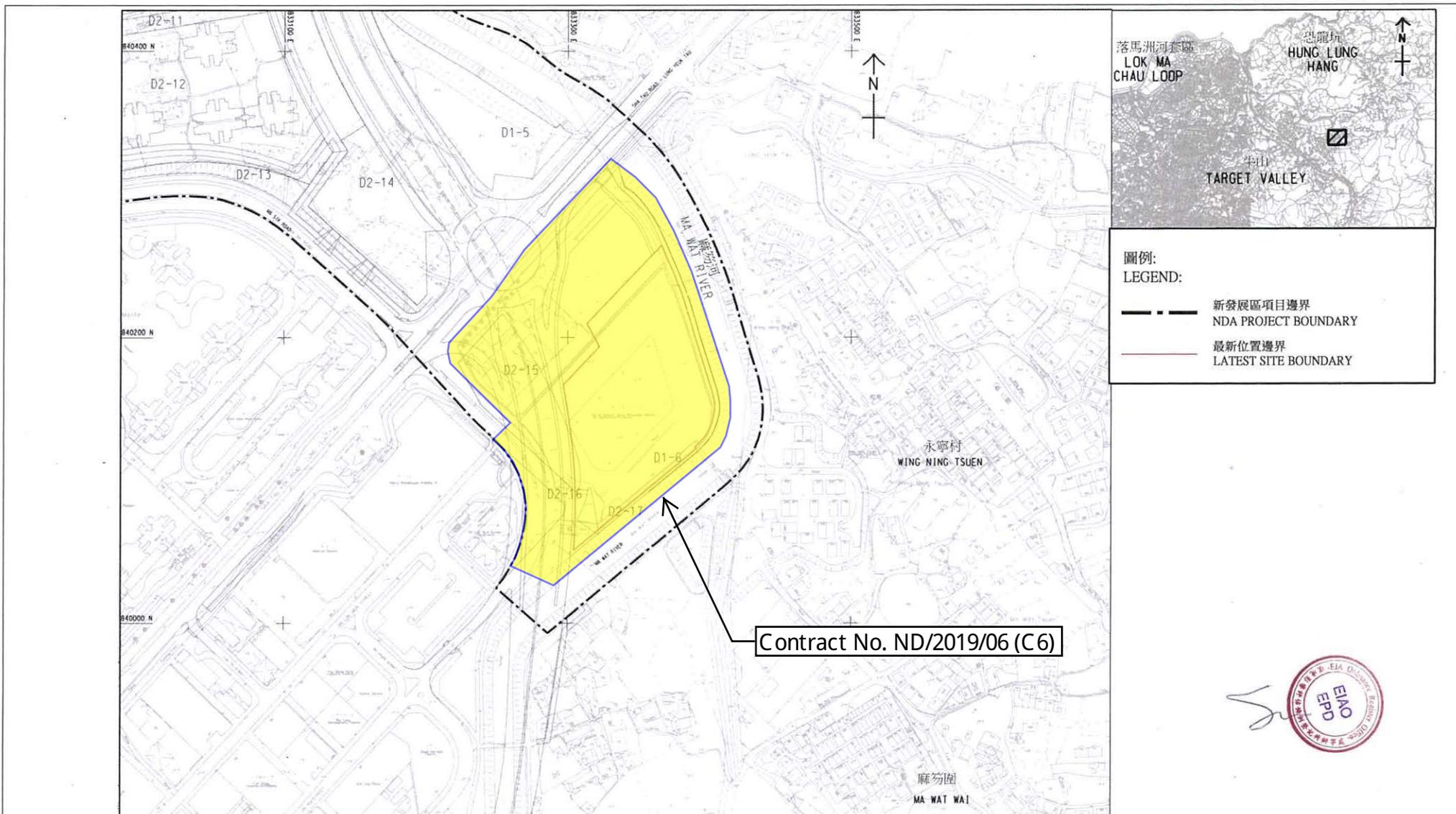
EP-473/2013/A



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)

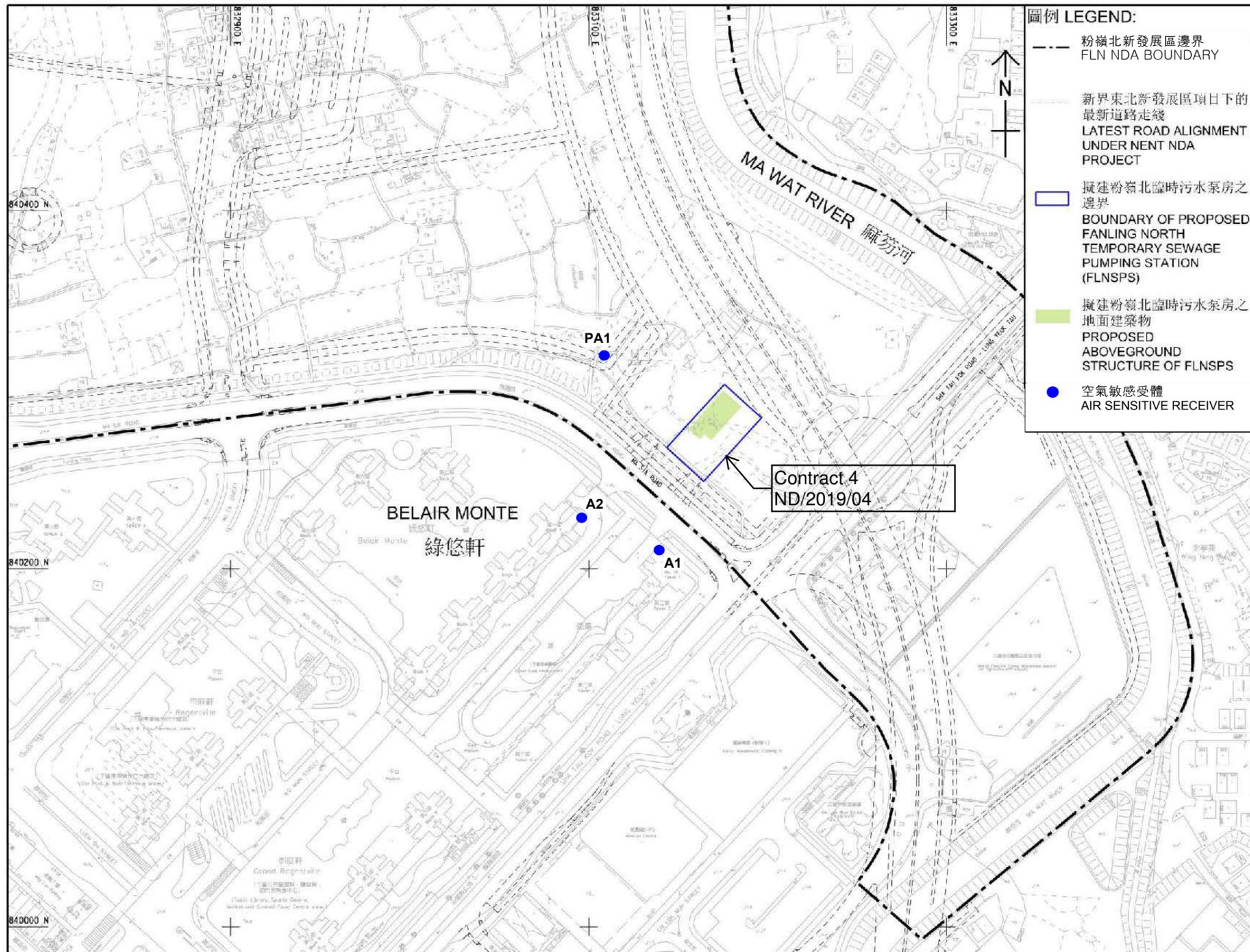
(This figure was prepared based on Figure 1.1 of VEP application (No.: VEP-516/2016))
 (本圖是根據申請更改環境許可證(編號 VEP-516/2016) 圖 1.1 編制)



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

Activity ID	Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar	November 2024					December 2024					January 2025					February 2025				
							27	03	10	17	24	01	08	15	22	29	05	12	19	26	02	09	16	23		
Revised Programme (2024-11-25) Rev.0																										
2.0 - Site Access Dates																										
AD-1020	Portion 1c - (Contract 6 Jan 2022)	0	25-Nov-24*		-1054	CD(7d)	◆ Portion 1c - (Contract 6 Jan 2022)																			
6.0 - Preliminaries and General Requirements																										
6.2 - General Submissions																										
GS-1290	Preparation and Submission of Fully Corod inated BIM	521	21-Aug-20 A	30-May-26	253	CD(7d)	[Green bar]																			
GS-1230	Submission of Major Method Statements	42	06-Dec-19 A	05-Jan-25	245	CD(7d)	[Green bar]																			
GS-1310.4	Water Supply to WSD for Irrigation System (Road D1-1) - WWO46 Part I II Approval	30	03-Jan-25	01-Feb-25	-13	CD(7d)	[Red bar]																			
GS-1310.2	Water Supply to WSD for Irrigation System (Road D1-1) - WWO46 Part I II Submission	15	19-Dec-24	02-Jan-25	-13	CD(7d)	[Red bar]																			
GS-1310.0	Water Supply to WSD for Irrigation System (Road D1-1) - WWO542 Approval	24	16-Aug-24 A	18-Dec-24	-13	CD(7d)	[Red bar]																			
GS-1390.4	Water Supply to WSD for Irrigation System (Road D3) - East Bound Footpath - WWO46 Part I II Approval	30	16-Feb-25	17-Mar-25	92	CD(7d)	[Green bar]																			
GS-1390.2	Water Supply to WSD for Irrigation System (Road D3) - East Bound Footpath - WWO46 Part I II Submission	15	01-Feb-25	15-Feb-25	92	CD(7d)	[Green bar]																			
GS-1390.0	Water Supply to WSD for Irrigation System (Road D3) - East Bound Footpath - WWO542 Approval	30	02-Jan-25	31-Jan-25	92	CD(7d)	[Green bar]																			
GS-1390	Water Supply to WSD for Irrigation System (Road D3) - East Bound Footpath - WWO542 Submission	15	18-Dec-24	01-Jan-25	92	CD(7d)	[Green bar]																			
GS-1400.4	Water Supply to WSD for Irrigation System (Road D3) - West Bound Footpath - WWO46 Part I II Approval	30	16-Feb-25	17-Mar-25	116	CD(7d)	[Green bar]																			
GS-1400.2	Water Supply to WSD for Irrigation System (Road D3) - West Bound Footpath - WWO46 Part I II Submission	15	01-Feb-25	15-Feb-25	116	CD(7d)	[Green bar]																			
GS-1400.0	Water Supply to WSD for Irrigation System (Road D3) - West Bound Footpath - WWO542 Approval	30	02-Jan-25	31-Jan-25	116	CD(7d)	[Green bar]																			
GS-1400	Water Supply to WSD for Irrigation System (Road D3) - West Bound Footpath - WWO542 Submission	15	18-Dec-24	01-Jan-25	116	CD(7d)	[Green bar]																			
GS-1420.4	Water Supply to WSD for Irrigation System (Road D5) - East Bound Footpath - WWO46 Part I II Approval	30	24-Jan-25	22-Feb-25	-185	CD(7d)	[Red bar]																			
GS-1420.2	Water Supply to WSD for Irrigation System (Road D5) - East Bound Footpath - WWO46 Part I II Submission	15	09-Jan-25	23-Jan-25	-185	CD(7d)	[Red bar]																			
GS-1420.0	Water Supply to WSD for Irrigation System (Road D5) - East Bound Footpath - WWO542 Approval	30	10-Dec-24	08-Jan-25	-185	CD(7d)	[Red bar]																			
GS-1420	Water Supply to WSD for Irrigation System (Road D5) - East Bound Footpath - WWO542 Submission	15	25-Nov-24	09-Dec-24	-185	CD(7d)	[Red bar]																			
GS-1430.4	Water Supply to WSD for Irrigation System (Road D5) - West Bound Footpath - WWO46 Part I II Approval	30	08-Feb-25	09-Mar-25	-181	CD(7d)	[Red bar]																			
GS-1430.2	Water Supply to WSD for Irrigation System (Road D5) - West Bound Footpath - WWO46 Part I II Submission	19	20-Jan-25	07-Feb-25	-181	CD(7d)	[Red bar]																			
GS-1430.0	Water Supply to WSD for Irrigation System (Road D5) - West Bound Footpath - WWO542 Approval	38	13-Dec-24	20-Jan-25	-181	CD(7d)	[Red bar]																			
GS-1430	Water Supply to WSD for Irrigation System (Road D5) - West Bound Footpath - WWO542 Submission	19	25-Nov-24	13-Dec-24	-181	CD(7d)	[Red bar]																			
GS-1380.0	Water Supply to WSD for Irrigation System (Road L1) - WWO542 Approval	30	17-Feb-25	18-Mar-25	-280	CD(7d)	[Red bar]																			
GS-1380	Water Supply to WSD for Irrigation System (Road L1) - WWO542 Submission	15	02-Feb-25	16-Feb-25	-280	CD(7d)	[Red bar]																			
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	100	12-Dec-24	21-Mar-25	102	CD(7d)	[Green bar]																			
Remaining Road works in Area H																										
S1P10a-2018	Road Works - Irrigation System Installation	60	03-Feb-25	14-Apr-25	-9	WD(6d)	[Red bar]																			
Section 6B																										
Portion 1e in Area G2 (Soil Treatment)																										
Soil Treatment																										
S6BP1e-2000	Construct & maintain Temporary drainage	142	09-Jan-25	05-Jul-25	0	WD(6d)	[Red bar]																			
S6BP1e-2010	Remove soil (original assumed 1422m3) (1 / 1 EGI completed, interim soil to be excavated / treated : 0m3 / 0m3)	24	09-Jan-25	08-Feb-25	0	WD(6d)	[Red bar]																			



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

ND/2019/01 - 3 Month Rolling Programme (2024-11)

Data Date: 25-Nov-24

Run Date: 30-Nov-2024

Project ID: ND201901-RP 57
 Layout: ND201901-3MRP with logo
 Page 1 of 15

REVISED PROGRAMME (2024-11)			
Date	Revision	Checked	Approved
30-Nov-24	Rev.0	SC	BY

Activity ID	Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar	November 2024					December 2024				January 2025				February 2025					
							27	03	10	17	24	01	08	15	22	29	05	12	19	26	02	09	16	23	
Portion 11b in Area G2 (Soil Treatment)																									
Soil Treatment																									
S6BP11b-2000	Construct & maintain Temporary drainage	142	09-Jan-25	05-Jul-25	0	WD(6d)																			
S6BP11b-2010	Remove soil (original assumed 1125m3) (1 / 1 EGI result received, soil to be excavated / treated : 0m3 / 0m3) Clean Soil	24	09-Jan-25	08-Feb-25	0	WD(6d)																			
Section 6C																									
Portion 11b in Area G3 (Soil Treatment)																									
Soil Treatment																									
S6CP11b-2000	Construct & maintain Temporary drainage	294	09-Jan-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	09-Jan-25	08-Feb-25	0	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	48	27-Dec-24	25-Feb-25	-147	WD(6d)																			
S8P2-2010	Remove soil (original assumed 6898m3) (2 / 2 EGI completed, interim soil to be excavated / treated : 0m3/0m3) Clean Soil	26	25-Nov-24	24-Dec-24	-147	WD(6d)																			
Civil Work																									
Construction of Pak Shek Au Junction																									
S8P2-4100.20	Cut slope KS34 - Cut Slope Lower Bench	24	19-Feb-25	18-Mar-25	-28	WD(6d)																			
S8P2-4100.12	Cut slope KS34 - Row AE & AD Remaining/Additional Soil Nail & Soil Nail head	12	05-Feb-25	18-Feb-25	-28	WD(6d)																			
S8P2-5000	New Formed Slope KS35 Compact fill	60	19-Feb-25	06-May-25	188	WD(6d)																			
Construction of Pak Shek Au Junction Stage 1																									
S8P2-4120.120	Back Filling and Laying Watermain (CHA 60 - CHA 140)	24	25-Jan-25	25-Feb-25	-141	WD(6d)																			
S8P2-4120.110	Construct Drainage SMHKT 1111a to KTRC1 (0 / 4 MH Complete)	24	16-Dec-24	15-Jan-25	-133	WD(6d)																			
S8P2-4120.115	Construct Rectangular Channel RC1	32	16-Dec-24	24-Jan-25	-141	WD(6d)																			
S8P2-4120.106	Detect and Exposure Underground Utilities	18	28-Oct-24 A	14-Dec-24	-133	WD(6d)																			
S8P2-4120.11	Preparation works for Construction of Rectangular Channel RC1 (Temp Drainage Management, Site Clearance, etc)	18	23-Nov-24 A	14-Dec-24	-141	WD(6d)																			
Construction of Pak Shek Au Junction Stage 2																									
S8P2-4120.122	Trial Pit Excavation / Detect and Exposure Underground Utilities	12	19-Feb-25	04-Mar-25	-177	WD(6d)																			
Portion 1a in Area A (Soil Treatment, Slope, Retaining Wall, Noise Barrier, Drainage & Roadwork)																									
Soil Treatment																									
S8P1a-2020	Backfilling to the formation levels	24	10-Oct-24 A	21-Dec-24	-103	WD(6d)																			
Civil Work																									
South of Roundabout C3																									
S8P1a-2330	Laying Fresh Watermains CHAA 150 to CH 246	36	27-Jan-25	12-Mar-25	-48	WD(6d)																			
S8P1a-2350	New Formed Rock Fill Slope KS33 (Stage 2) CH 40 to 135	48	21-Jan-25	20-Mar-25	-55	WD(6d)																			
S8P1a-2352	New Formed Rock Fill Slope KS33 (Stage 2) CH 40 to 135 - Slope Drainage	24	21-Feb-25	20-Mar-25	-31	WD(6d)																			
S8P1a-2502	New Formed Slope KS32 - Slope Drainage (CNE 168)	12	16-Dec-24	31-Dec-24	-3	WD(6d)																			
S8P1a-2520	New Formed Slope KS32 Compact fill - Hydroseeding (CNE 168)	12	02-Jan-25	15-Jan-25	-3	WD(6d)																			
S8P1a-2500	New Formed Slope KS32 Compacted fill / No fines concrete (CNE 168)	30	20-Jul-24 A	31-Dec-24	-3	WD(6d)																			
S8P1a-2048	Slopeworks for new feature KS34 Lower Bench - Slope Drainage and Maintenance Access (Stage 2)	24	19-Feb-25	18-Mar-25	49	WD(6d)																			
S8P1a-2050	Slopeworks for new feature KS34 Lower Bench - Soil Nail Installation & Soil Nail Head Rows BC+BB+BA (7 + 7 +7 Nos)	18	25-Jan-25	18-Feb-25	49	WD(6d)																			
S8P1a-2334	Watermain CHA - CCTV, Sterilization & Pressure Test	18	25-Nov-24	12-Dec-24	72	CD(7d)																			
Construction of Pak Shek Au Junction Stage 3																									
S8P1a-3010	Construct Secondary Drainage M6.11 to M6.14A (0 / 5 MH Complete)	24	02-Jan-25	01-Feb-25	-31	WD(6d)																			
S8P1a-3000	Demolish Existing Retaining Wall	24	02-Dec-24	31-Dec-24	-31	WD(6d)																			
S8P1a-0040	Preparation works & Man hole Construction (0 / 1 MH complete)	6	28-Oct-24 A	30-Nov-24	-77	WD(6d)																			



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

ND/2019/01 - 3 Month Rolling Programme (2024-11)

Data Date: 25-Nov-24

Run Date: 30-Nov-2024

Project ID: ND201901-RP 57
 Layout: ND201901-3MRP with logo
 Page 2 of 15

REVISED PROGRAMME (2024-11)			
Date	Revision	Checked	Approved
30-Nov-24	Rev.0	SC	BY

Activity ID	Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar	November 2024					December 2024				January 2025				February 2025											
							27	03	10	17	24	01	08	15	22	29	05	12	19	26	02	09	16	23							
S8P5-0102	Design Layout and Profile for the Water Supply Pipework (EWN 034)	0		25-Nov-24	-309	CD(7d)																									
S8P5-0108	Increased Risk for Damages to Existing Donjiang Raw Water Mains (DJRWMs) (CNE 060, CE 390)	0		25-Nov-24	-309	CD(7d)																									
S8P5-0110	Potential Changes of the Scope of Noise Barriers (AECOM EWN PM-003)	0		25-Nov-24	-17	CD(7d)																									
S8P5-0000	The footing detail for Roadside Directional Sign ADS30 at Portion 5 (EWN 043)	0		25-Nov-24	-17	CD(7d)																									
Construction according to CSD for Alternative on Bored Pile Wall																															
S8P5-2005	Construct & maintain Temporary drainage	334	25-Nov-24	10-Jan-26	-251	WD(6d)																									
Civil Work																															
S8P5-5010	DCS Works by Others - North bound CH 340 - CH 410 (Anticipated Start Date Oct 2024) "To be Confirmed"	292	15-Oct-24 A	12-Sep-25	-309	CD(7d)																									
S8P5-5000	DCS Works by Others - North bound CH 410 - CH 520 (Anticipated Start Date 26 Jun 2024) EWN 106	3	26-Jun-24 A	01-Dec-24	-86	CD(7d)																									
S8P5-4004.40	Remaining Secondary Drainage (South bound Carriageway CH 400 - CH 520)	20	24-Feb-25	18-Mar-25	-106	WD(6d)																									
S8P5-4014.02	Underground Fresh & Flushing watermains (South bound Carriageway) CHD 260 to 340 & CHQ 250 to 340 (CNE 212)	19	27-Jul-24 A	16-Dec-24	-103	WD(6d)																									
S8P5-4004.30	Underground Fresh & Flushing watermains (South bound Carriageway) CHD 417 to 473 & CHQ 421 to 465	60	24-Feb-25	10-May-25	-65	WD(6d)																									
S8P5-4012	Underground utilities (Handover to CLP, Towngas, HKT - 25 Nov 2024) (South bound CH 410 - CH 520)	78	29-Nov-24	14-Feb-25	-99	CD(7d)																									
S8P5-4014.020	Underground utilities (Handover to CLP, Towngas, HKT - 15 Oct 2024) (CH 340 - CH 410)	62	17-Dec-24	16-Feb-25	-124	CD(7d)																									
S8P5-4008	Watermain CHA - CCTV & Pressure Test	18	20-Dec-24	06-Jan-25	60	CD(7d)																									
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-Nov-24	-309	CD(7d)																									
Construction according to CSD for Alternative on Bored Pile Wall																															
S8P6a-2004	Construct & maintain Temporary drainage	253	25-Nov-24	02-Oct-25	-137	WD(6d)																									
Civil Work																															
S8P6a-6060	Construction of Concrete Barrier KB01 Stage 4 (Bay 14)	24	22-Feb-25	21-Mar-25	-137	WD(6d)																									
S8P6a-6052	Construction of Concrete Barrier KB01 Stage 4 (Bay 15)	24	22-Jan-25	21-Feb-25	-137	WD(6d)																									
S8P6a-6050	ELS & Excavation for KB01 Stage 4 (Bay 14 & 15) (EWN 107)	24	21-Dec-24	21-Jan-25	-137	WD(6d)																									
S8P6a-6048	Preparatory Works recommended by EPD before Commence ELS & Excavation for KB01 Stage 4 (Bay 14 & 15) (EWN 107)	7	08-Oct-24 A	02-Dec-24	-121	WD(6d)																									
S8P6a-7110	Road D3 / D4 Junction - ELS & Excavation for Sewerage (FMH KT1.02 Connection and KT103)	48	24-Feb-25	24-Apr-25	-88	WD(6d)																									
S8P6a-7090	Road D3 / D4 Junction - North Bound Lane Road Works & Divert traffic	6	17-Feb-25	22-Feb-25	-106	WD(6d)																									
S8P6a-7080	Road D3 / D4 Junction - North Bound Lane Site formation (including gulley construction)	24	16-Jan-25	15-Feb-25	-106	WD(6d)																									
S8P6a-7032	Road D4 - Backfill to Road Formation CH 345 to CH 400	23	08-Oct-24 A	20-Dec-24	-137	WD(6d)																									
S8P6a-6084	Road D4 - Underground Sewerage work (FMH KT1.02 to Plug in at KT1.01)	18	23-Dec-24	15-Jan-25	-106	WD(6d)																									
S8P6a-6076.0	Road D4 Backfill & Construct Fresh Watermain Chamber Construction (0 / 1 Complete)	14	06-Dec-24	21-Dec-24	-106	WD(6d)																									
S8P6a-6072.0	Road D4 Backfill & Laying Fresh Watermain CHD (CH 628 - 552)	18	25-Nov-24	14-Dec-24	-132	WD(6d)																									
S8P6a-6076	Road D4 Backfill & Laying Underground Fresh Watermain CHA 984 to CHA 1027	3	14-Oct-24 A	27-Nov-24	-106	WD(6d)																									
S8P6a-6090	Road D4 Remaining Flushing Watermains CHQ	24	23-Dec-24	22-Jan-25	-100	WD(6d)																									
S8P6a-7000	Road D4 Swabbing & Pressure test for Fresh watermains CHD & CHQ	12	23-Jan-25	08-Feb-25	-52	WD(6d)																									
S8P6a-6076.20	Watermain CHA - CCTV & Pressure Test	6	16-Dec-24	21-Dec-24	-32	CD(7d)																									
Portion 9b & 9d in Area A (Soil Treatment, Slope, Retaining Wall, Drainage & Roadwork)																															
S8P9b-3128	Additional Sewerage Pipes clash with the Proposed Watermains along Road D4 and D5 (EWN 065)	0		25-Nov-24	-301	CD(7d)																									
S8P9b-3162	Additional Works for Installation of Watermains by Trenchless Construction Method along Road D4 (EWN 095) (CNE 136)	0		25-Nov-24	-139	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-Nov-24	-301	CD(7d)																									
S8P9b-3140	Delay to the Diversion/Modification of Existing HKT Pillar Boxes & Associated ducts in Ma Tso Lung Rd (EWN 075) (CNE 096)	0		25-Nov-24	-307	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-Nov-24	-301	CD(7d)																									
S8P9b-0004	Design Layout and Profile for the Water Supply Pipework (EWN 034)	0		25-Nov-24	-301	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-Nov-24	-307	CD(7d)																									
S8P9b-3126	Increased Risk for Damages to Existing Donjiang Raw Water Mains (DJRWMs) (CNE 060)	0		25-Nov-24	-301	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-Nov-24	-278	CD(7d)																									
S8P9b-3130	Part of Portion 9b of the Site (near eastern end of Road D5) occupied by the Local Villagers (EWN 066)	0		25-Nov-24	-151	CD(7d)																									
S8P9b-3132	Potential Changes of the Scope of Noise Barriers (AECOM EWN PM-003)	0		25-Nov-24	-193	CD(7d)																									



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

ND/2019/01 - 3 Month Rolling Programme (2024-11)

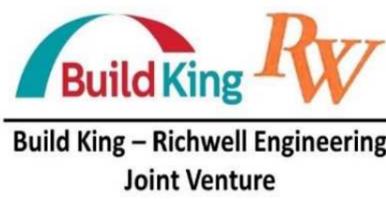
Data Date: 25-Nov-24

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REVISED PROGRAMME (2024-11)			
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Activity ID	Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar	November 2024					December 2024				January 2025				February 2025							
							27	03	10	17	24	01	08	15	22	29	05	12	19	26	02	09	16	23			
S8P9b-3156	Provision of Spare Pipes for the Proposed Watermains adopting Trenchless Construction Method at Road D4 (EWN 091)	0		25-Nov-24	-301	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-Nov-24	-301	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-Nov-24	34	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-Nov-24	-307	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-Nov-24	-301	CD(7d)																					
Preparation work/Tree Survey/Site Clearance/GI																											
S8P9b-0006	Removal of Existing CLP Facilities (EWN No. 018)	0		25-Nov-24	76	CD(7d)																					
Civil Work																											
S8P9b-3292.0	Additional Land Adjacent to Pipe Jacking - Approval of TTA Scheme from TMLG	0	03-Sep-24 A	05-Nov-24 A		CD(7d)																					
S8P9b-3294.0	Additional Land Adjacent to Pipe Jacking - Construct Temporary Road (Subject to WSD Approval)	13	25-Nov-24 A	09-Dec-24	-177	WD(6d)																					
S8P9b-3290	Additional Land Adjacent to Pipe Jacking - Initial / Tree Survey and prepare Tree Felling and Transplant Report	29	30-Aug-24 A	30-Dec-24	-76	WD(6d)																					
S8P9b-3294.10	Additional Land Adjacent to Pipe Jacking - Preparation works & Divert Traffic (Subject to WSD Approval)	6	10-Dec-24	16-Dec-24	-177	WD(6d)																					
S8P9b-3292	Additional Land Adjacent to Pipe Jacking - Seek Approval for Tree Felling and Transplant Report	30	31-Dec-24	29-Jan-25	-94	CD(7d)																					
S8P9b-3294	Additional Land Adjacent to Pipe Jacking - Tree Felling and Site Clearance	6	01-Feb-25	07-Feb-25	-77	WD(6d)																					
S8P9b-3000	Construct & maintain Temporary drainage	363	25-Nov-24	13-Feb-26	-250	WD(6d)																					
S8P9b-3260	Construct & maintain Temporary drainage	186	25-Nov-24	15-Jul-25	-207	WD(6d)																					
S8P9b-3108.50	Construct Temp Road and Implement TTA (After Road D5 Works by DCS Contractor)	24	17-Feb-25	15-Mar-25	-250	WD(6d)																					
S8P9b-3012.20	Duration of TTA	211	25-Nov-24	23-Jun-25	-158	CD(7d)																					
S8P9b-3101	Duration of TTA	120	25-Nov-24	24-Apr-25	-250	WD(6d)																					
S8P9b-3262.052	Jacking Pit - Drilling works for Sewerage (DN600) (CNE 060, CE 246)	15	22-Feb-25	11-Mar-25	-244	WD(6d)																					
S8P9b-3262.042	Jacking Pit - Drilling works for DCS (2500 dia) (CNE 060, CE 246)	24	07-Dec-24	07-Jan-25	-244	WD(6d)																					
S8P9b-3262.032	Jacking Pit - Drilling works for Watermain (2800 dia) (CNE 060, CE 246)	0	30-Oct-24 A	25-Nov-24 A		WD(6d)																					
S8P9b-3262.05	Jacking Pit - Erect Platform and TBM Set up for Sewerage (DN600) (CNE 060, CE 246)	24	22-Jan-25	21-Feb-25	-244	WD(6d)																					
S8P9b-3262.04	Jacking Pit - TBM Set up for DCS (2500 dia) (CNE 060, CE 246)	11	20-Nov-24 A	06-Dec-24	-244	WD(6d)																					
S8P9b-3262.03	Jacking Pit - TBM Set up for Watermain (2800 dia) (CNE 060, CE 246)	0	15-Oct-24 A	29-Oct-24 A		WD(6d)																					
S8P9b-3302	North of Receiving Pit - Construct DCS Buried Pit @ CH 770 & Laying Pipes Across Road D4	36	10-Jan-25	24-Feb-25	-177	WD(6d)																					
S8P9b-3300.0	North of Receiving Pit - ELS/Excavation for DCS Pipes and Buried Pit @ CH 770	18	17-Dec-24	09-Jan-25	-177	WD(6d)																					
S8P9b-3262.094	Pipe Jacking - Pressure Test and Grouting of Sleeve Pipe for Watermains (CNE 060, CE 246)	7	15-Feb-25	22-Feb-25	-200	WD(6d)																					
S8P9b-3262.22	Receiving Pit - Dismantle, Lift TBM & Annular grout After Drilling for DCS (CNE 060, CE 246)	12	08-Jan-25	21-Jan-25	-244	WD(6d)																					
S8P9b-3262.20	Receiving Pit - Dismantle, Lift TBM & Annular grout After Drilling for Watermain (CNE 060, CE 246)	11	25-Nov-24 A	06-Dec-24	-244	WD(6d)																					
S8P9b-3262.15	Receiving Pit - Excavation & ELS works for cofferdam (CNE 060, CE 246)	0	02-Aug-24 A	07-Nov-24 A		WD(6d)																					
S8P9b-3262.222	Receiving Pit - Installation for DCS (CNE 060, CE 246)	54	22-Jan-25	28-Mar-25	-236	WD(6d)																					
S8P9b-3262.202	Receiving Pit - Installation for Watermain CHA & CHD (CNE 060, CE 246)	54	07-Dec-24	14-Feb-25	-200	WD(6d)																					
S8P9b-3262.150	Receiving Pit - Structural Blinding, Erect Platform and remove 4th & 5th Waling & Struts (CNE 060, CE 246)	0	08-Nov-24 A	12-Nov-24 A		WD(6d)																					
S8P9b-3262.111	Receiving Pit - Duration of TTA (CNE 060, CE 246)	194	25-Nov-24	24-Jul-25	-244	WD(6d)																					
S8P9b-3040.26	Retaining wall KW02, KW03 & KW04 - Footpath Construction	12	28-Jan-25	13-Feb-25	-65	WD(6d)																					
S8P9b-3040.22	Retaining wall KW02, KW03 & KW04 - SRT, smart Lighting, (Footpath)	10	02-Dec-24	12-Dec-24	-65	WD(6d)																					
S8P9b-3040.24	Retaining wall KW02, KW03 & KW04 - UU by others	36	13-Dec-24	27-Jan-25	-65	WD(6d)																					
S8P9b-3040.14	Retaining wall KW03 - Drainage Construction (Remaining)	18	14-Feb-25	06-Mar-25	-65	WD(6d)																					
S8P9b-3534	Road A4 - Approval of Tree Felling and Transplant Report	11	01-Aug-24 A	05-Dec-24	-289	CD(7d)																					
S8P9b-3542	Road A4 - Construct Temporary Village Access Road and Implement TTA	30	07-Jan-25	13-Feb-25	-237	WD(6d)																					
S8P9b-3530	Road A4 - Duration of TTA (Stage 1)	156	25-Nov-24	29-Apr-25	-292	CD(7d)																					
S8P9b-3540	Road A4 - Tree Felling and Site Clearance	24	06-Dec-24	06-Jan-25	-237	WD(6d)																					
S8P9b-3544	Road A4 - UU Detection, Trial Trench Excavation on Existing Ma Tso Lung Road to locate Existing UU	60	14-Feb-25	29-Apr-25	-237	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	17-Feb-25	14-Apr-25	-77	WD(6d)																					
S8P9b-3057.14	Road D4 (CH 400 - CH 630) - Backfill to Road Formation	36	17-Feb-25	29-Mar-25	-182	WD(6d)																					
S8P9b-3057.30	Road D4 (CH 400 - CH 630) - Backfilling & Laying Watermain CHD & CHQ	36	02-Jan-25	15-Feb-25	-182	WD(6d)																					



- Planned Work
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- Actual Work
- ◆ Milestone
- ◆ Milestone Critical
- Summary LOE
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ND/2019/01 - 3 Month Rolling Programme (2024-11)

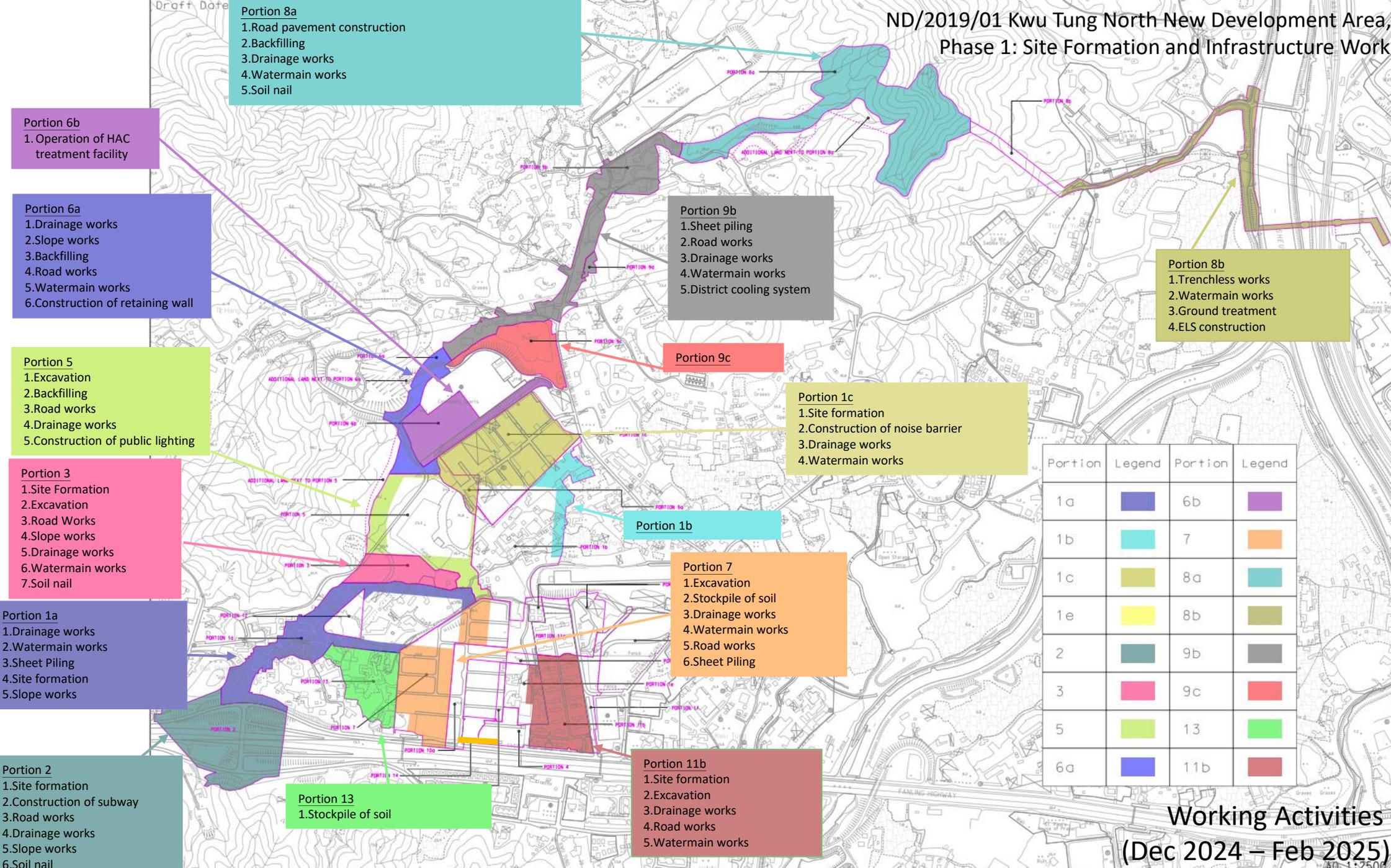
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REVISED PROGRAMME (2024-11)			
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ND/2019/01 Kwu Tung North New Development Area, Phase 1: Site Formation and Infrastructure Work



Portion 6b
1. Operation of HAC treatment facility

Portion 6a
1. Drainage works
2. Slope works
3. Backfilling
4. Road works
5. Watermain works
6. Construction of retaining wall

Portion 5
1. Excavation
2. Backfilling
3. Road works
4. Drainage works
5. Construction of public lighting

Portion 3
1. Site Formation
2. Excavation
3. Road Works
4. Slope works
5. Drainage works
6. Watermain works
7. Soil nail

Portion 1a
1. Drainage works
2. Watermain works
3. Sheet Piling
4. Site formation
5. Slope works

Portion 2
1. Site formation
2. Construction of subway
3. Road works
4. Drainage works
5. Slope works
6. Soil nail

Portion 8a
1. Road pavement construction
2. Backfilling
3. Drainage works
4. Watermain works
5. Soil nail

Portion 9b
1. Sheet piling
2. Road works
3. Drainage works
4. Watermain works
5. District cooling system

Portion 9c

Portion 1c
1. Site formation
2. Construction of noise barrier
3. Drainage works
4. Watermain works

Portion 1b

Portion 7
1. Excavation
2. Stockpile of soil
3. Drainage works
4. Watermain works
5. Road works
6. Sheet Piling

Portion 11b
1. Site formation
2. Excavation
3. Drainage works
4. Road works
5. Watermain works

Portion 8b
1. Trenchless works
2. Watermain works
3. Ground treatment
4. ELS construction

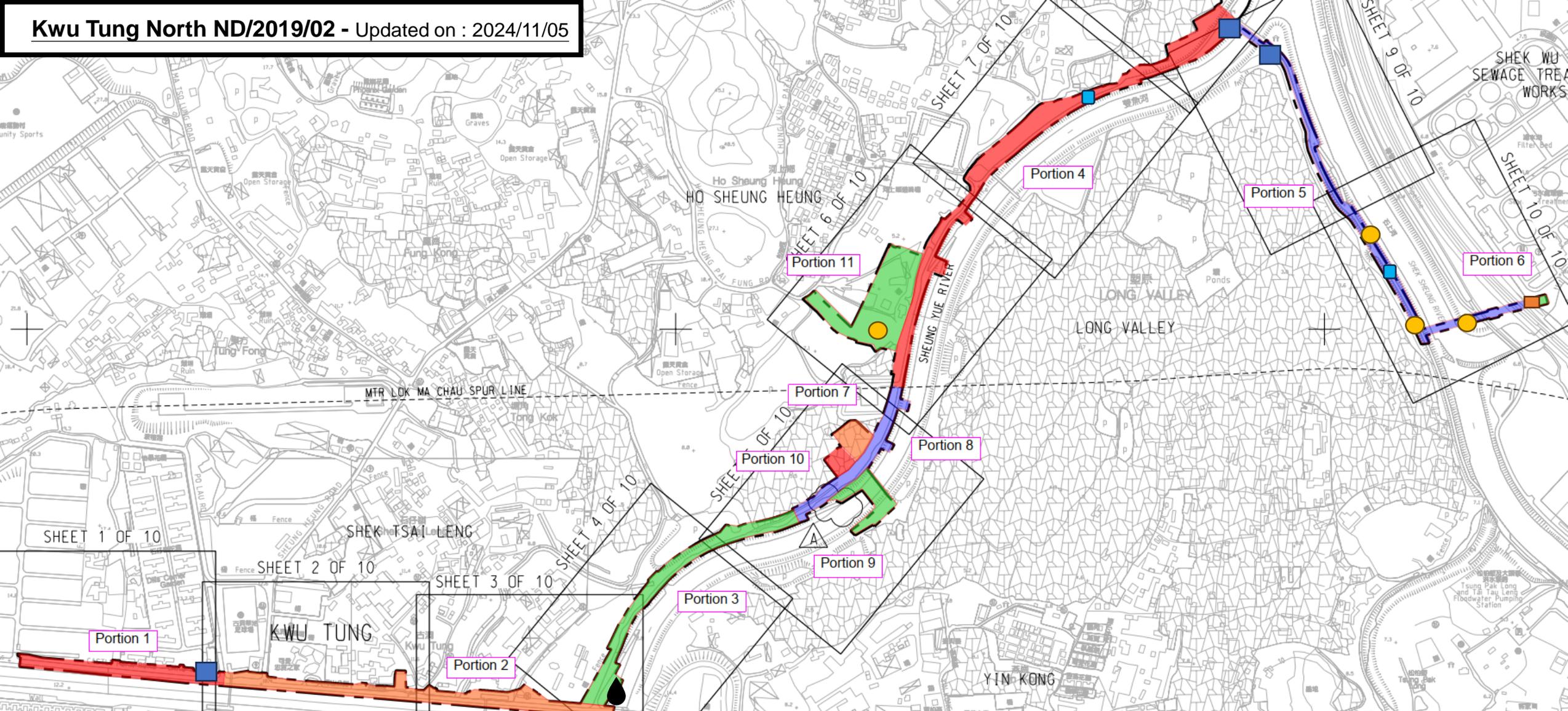
Portion 13
1. Stockpile of soil

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

Working Activities
(Dec 2024 – Feb 2025)

Construction Programme of ND/2019/02

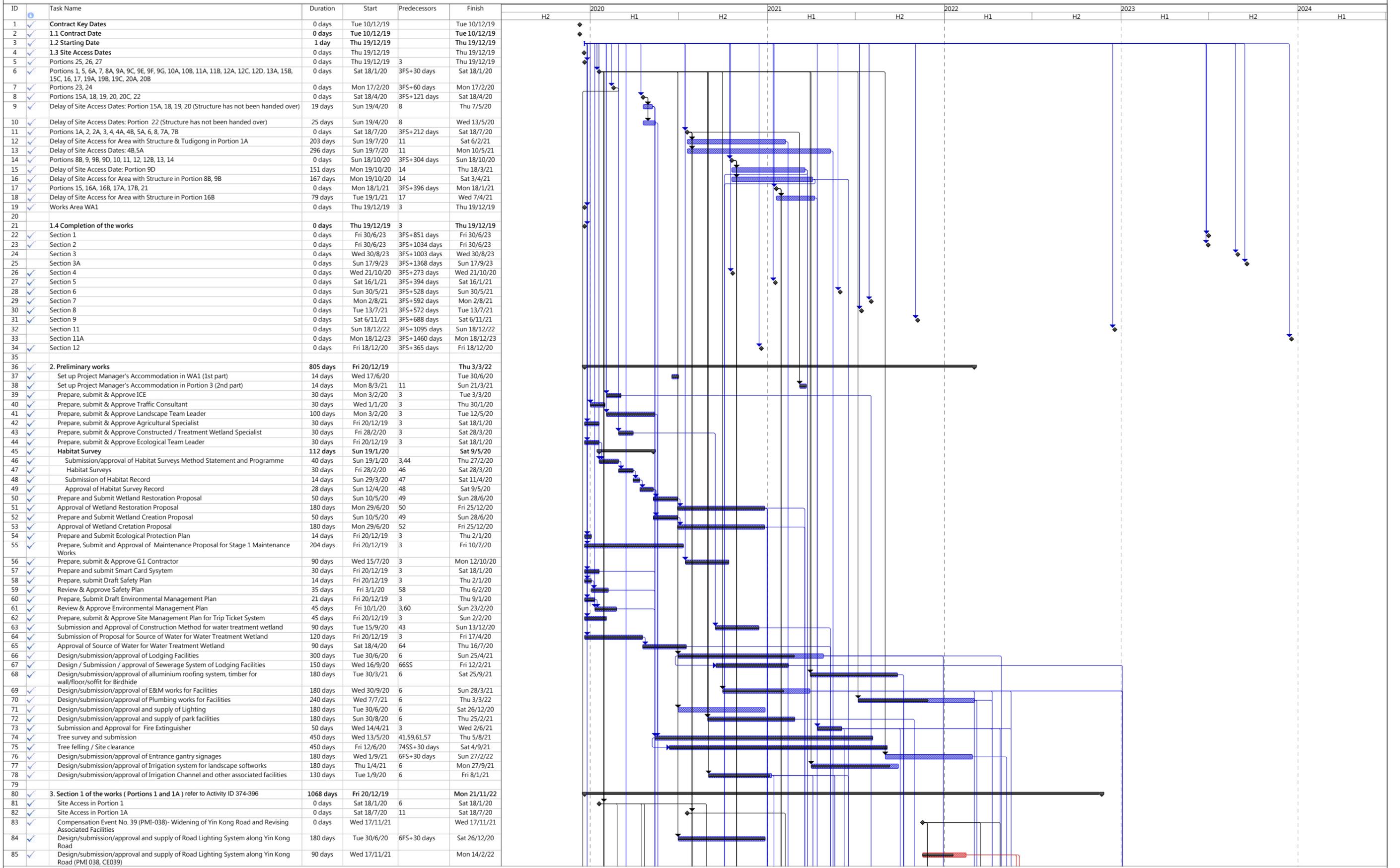
Kwu Tung North ND/2019/02 - Updated on : 2024/11/05



Legend	Item	Legend	Item
	Pipe jacking		Drilling
	Wastewater Treatment Plant		Sheet piling
	Excavation		
	Pipe pile		

Construction Programme of ND/2019/03

Kwu Tung North and Fanling North New Development Areas, Phase 1 : Development of Long Valley Nature Park
Project Programme of the Contract



Revised Programme: Nov 2023
Date: 2023-11-3

Task	Summary	Rolled Up Milestone	External Tasks	Inactive Milestone	Duration-only	Start-only	External Milestone
Critical Task	Rolled Up Task	Rolled Up Progress	Project Summary	Inactive Summary	Manual Summary Rollup	Finish-only	Progress
Milestone	Rolled Up Critical Task	Split	Group By Summary	Manual Task	Manual Summary	External Tasks	Deadline

Kwu Tung North and Fanling North New Development Areas, Phase 1 : Development of Long Valley Nature Park
Project Programme of the Contract

ID	Task Name	Duration	Start	Predecessors	Finish	Gantt Chart (2020-2024)											
86	Application for XP for construction of Yin Kong Road	90 days	Thu 18/11/21	83	Tue 15/2/22	[Gantt bar: 18/11/21 to 15/2/22]											
87	Prepare TTA for TMLG and approval from TD and RMO	90 days	Mon 16/3/20	86	Fri 1/4/22	[Gantt bar: 16/3/20 to 1/4/22]											
88	Application of Traffic Advice and Road Work Advice	30 days	Sat 2/4/22	87	Sun 1/5/22	[Gantt bar: 2/4/22 to 1/5/22]											
89	Submission of Utilities Detection Report	30 days	Wed 29/7/20	81	Thu 27/8/20	[Gantt bar: 29/7/20 to 27/8/20]											
90	Additional Widening works for Yin Kong Road (to be approved by Relevant Department)	30 days	Thu 1/7/21		Fri 30/7/21	[Gantt bar: 1/7/21 to 30/7/21]											
91	Relocation of CLP Pole (by Others)	335 days	Sun 1/3/20	81FS+30 days	Fri 29/1/21	[Summary bar: 1/3/20 to 29/1/21]											
92	Relocation of CLP Pole at Yin Kong Road in (Portion 1)	195 days	Sun 1/3/20		Fri 11/9/20	[Summary bar: 1/3/20 to 11/9/20]											
93	Planning for Relocation	60 days	Sun 1/3/20		Wed 29/4/20	[Gantt bar: 1/3/20 to 29/4/20]											
94	Construction of New Pole	60 days	Thu 30/4/20	93	Sun 28/6/20	[Gantt bar: 30/4/20 to 28/6/20]											
95	Outage and Diversion of Underground Cable	75 days	Mon 29/6/20	94	Fri 11/9/20	[Gantt bar: 29/6/20 to 11/9/20]											
96																	
97	Relocation of CLP Pole at Yin Kong Road (Portion 1A)	195 days	Sun 19/7/20		Fri 29/1/21	[Summary bar: 19/7/20 to 29/1/21]											
98	Planning for Relocation	60 days	Sun 19/7/20	82	Wed 16/9/20	[Gantt bar: 19/7/20 to 16/9/20]											
99	Construction of New Pole	60 days	Thu 17/9/20	98	Sun 15/11/20	[Gantt bar: 17/9/20 to 15/11/20]											
100	Outage and Diversion of Underground Cable	75 days	Mon 16/11/20	99	Fri 29/1/21	[Gantt bar: 16/11/20 to 29/1/21]											
101																	
102	Site Works (under Portion 1)	975 days	Fri 20/12/19		Sat 20/8/22	[Summary bar: 20/12/19 to 20/8/22]											
103	Compensation Event No. 002 - Construction of Chain Link Fence and Gate adjacent to Yin Kong Road	21 days	Thu 16/4/20	81	Wed 6/5/20	[Gantt bar: 16/4/20 to 6/5/20]											
104	Compensation Event No. 003 - Reprovision of Hoarding and gate at Enchi Lodge	30 days	Wed 22/4/20	81	Thu 21/5/20	[Gantt bar: 22/4/20 to 21/5/20]											
105	Remove existing fencing and site clearance	30 days	Fri 28/8/20	81,89,95,103,104	Sat 26/9/20	[Gantt bar: 28/8/20 to 26/9/20]											
106	Road widening	120 days	Sat 16/4/22	107,109	Sat 13/8/22	[Gantt bar: 16/4/22 to 13/8/22]											
107	Drainage works	150 days	Wed 5/5/21	83FF+150 days	Fri 15/4/22	[Gantt bar: 5/5/21 to 15/4/22]											
108	Lighting and installation of street furniture	76 days	Mon 30/5/22	85,106FF	Sat 13/8/22	[Gantt bar: 30/5/22 to 13/8/22]											
109	Additional Dwarf Wall	30 days	Thu 17/3/22	83,107FF	Fri 15/4/22	[Gantt bar: 17/3/22 to 15/4/22]											
110	Construction of Pai Lau	975 days	Fri 20/12/19		Sat 20/8/22	[Summary bar: 20/12/19 to 20/8/22]											
111	Instruction from PM	365 days	Fri 20/12/19	3	Fri 18/12/20	[Gantt bar: 20/12/19 to 18/12/20]											
112	Compensation Event No. 36 (PMI-036)- Design and Construction of Yin Kong Village Pai Lau	0 days	Fri 24/12/21	111	Fri 24/12/21	[Milestone: 24/12/21]											
113	Design/Submission/approval	90 days	Fri 24/12/21	112	Wed 23/3/22	[Gantt bar: 24/12/21 to 23/3/22]											
114	Construction of Pai Lau	150 days	Thu 24/3/22	113	Sat 20/8/22	[Gantt bar: 24/3/22 to 20/8/22]											
115	Site Works (under Portion 1A) (refer to ID374 to 396)	523 days	Sun 7/2/21		Thu 14/7/22	[Summary bar: 7/2/21 to 14/7/22]											
116	General site clearance / demolition work / Removal of Asbestos Containing Material & Dioxin Contaminated	120 days	Sun 7/2/21	82,12	Sun 6/6/21	[Gantt bar: 7/2/21 to 6/6/21]											
117	Road Widening	120 days	Thu 17/3/22	118	Thu 14/7/22	[Gantt bar: 17/3/22 to 14/7/22]											
118	Drainage works	120 days	Wed 17/11/21	83	Wed 16/3/22	[Gantt bar: 17/11/21 to 16/3/22]											
119	Lighting and installation of street furniture	40 days	Sun 5/6/22	85,117FF	Thu 14/7/22	[Gantt bar: 5/6/22 to 14/7/22]											
120	Paving block on footway	60 days	Sun 14/8/22	108,119	Wed 12/10/22	[Gantt bar: 14/8/22 to 12/10/22]											
121	bituminous pavement on carriageway	40 days	Thu 13/10/22	120	Mon 21/11/22	[Gantt bar: 13/10/22 to 21/11/22]											
122	Completion of Section 1 of the works	0 days	Mon 18/4/22	121,114	Mon 18/4/22	[Milestone: 18/4/22]											
123																	
124	4. Section 2 of the works (Portions 2 and 2A) refer to Activity ID 398-422	1051 days	Sat 18/7/20		Sun 4/6/23	[Summary bar: 18/7/20 to 4/6/23]											
125	Site Access in Portions 2 and 2A	0 days	Sat 18/7/20	11	Sat 18/7/20	[Milestone: 18/7/20]											
126	General site clearance / demolition work / Removal of Asbestos Containing Material	60 days	Sun 19/7/20	125	Wed 16/9/20	[Gantt bar: 19/7/20 to 16/9/20]											
127	Construction of lodging facility & associated facilities (refer to ID398 to 422)	642 days	Wed 1/9/21		Sun 4/6/23	[Summary bar: 1/9/21 to 4/6/23]											
128	Excavation and formation preparation	120 days	Wed 1/9/21	126	Wed 29/12/21	[Gantt bar: 1/9/21 to 29/12/21]											
129	Construction of foundation / pavement	120 days	Thu 30/12/21	128,66	Thu 28/4/22	[Gantt bar: 30/12/21 to 28/4/22]											
130	Supply of logging units	200 days	Fri 29/4/22	129,66	Mon 14/11/22	[Gantt bar: 29/4/22 to 14/11/22]											
131	Installation of lodging units	100 days	Mon 26/9/22	130FS-50 days	Tue 3/1/23	[Gantt bar: 26/9/22 to 3/1/23]											
132	Installation of furniture / facility	120 days	Wed 4/1/23	131	Wed 3/5/23	[Gantt bar: 4/1/23 to 3/5/23]											
133	Installation of E&M works	125 days	Wed 4/1/23	69,67,131	Mon 8/5/23	[Gantt bar: 4/1/23 to 8/5/23]											
134	Installation of Fire Services	125 days	Wed 4/1/23	131	Mon 8/5/23	[Gantt bar: 4/1/23 to 8/5/23]											
135	Installation of plumbing works	125 days	Wed 4/1/23	69,131	Mon 8/5/23	[Gantt bar: 4/1/23 to 8/5/23]											
136	Testing and commissioning	27 days	Tue 9/5/23	135,133,134,132	Sun 4/6/23	[Gantt bar: 9/5/23 to 4/6/23]											
137	Completion of Section 2 of the works	0 days	Tue 18/10/22	136	Tue 18/10/22	[Milestone: 18/10/22]											
138																	
139	5. Section 3 of the works (Portions 3, 4, 4A, 4B, 5, 5A, 6 & 6A) refer to Activity ID424-444	1246 days	Sat 18/1/20		Sat 17/6/23	[Summary bar: 18/1/20 to 17/6/23]											
140	Site Access in Portions 5 and 6A	0 days	Sat 18/1/20	6	Sat 18/1/20	[Milestone: 18/1/20]											
141	Site Access in Portions 3, 4, 4A, 4B, 5A and 6	0 days	Sat 18/7/20	11	Sat 18/7/20	[Milestone: 18/7/20]											
142	General site clearance / demolition work / Removal of Asbestos Containing Material	300 days	Sun 19/1/20	140SS,141FF+20 days	Fri 13/11/20	[Gantt bar: 19/1/20 to 13/11/20]											
143	Construction of water treatment wetland	618 days	Tue 11/5/21		Wed 18/1/23	[Summary bar: 11/5/21 to 18/1/23]											
144	Excavation for sedimentation pond	120 days	Tue 11/5/21	63,140,141,65,13	Tue 7/9/21	[Gantt bar: 11/5/21 to 7/9/21]											
145	Excavation for macrophyte zones - down stream	71 days	Wed 8/9/21	144	Wed 17/11/21	[Gantt bar: 8/9/21 to 17/11/21]											
146	Bedding preparation	45 days	Thu 18/11/21	145	Sat 1/1/22	[Gantt bar: 18/11/21 to 1/1/22]											
147	Excavation for macrophyte zones - mid stream	72 days	Sun 2/1/22	146	Mon 14/3/22	[Gantt bar: 2/1/22 to 14/3/22]											
148	Bedding preparation	45 days	Tue 15/3/22	147	Thu 28/4/22	[Gantt bar: 15/3/22 to 28/4/22]											
149	Excavation for macrophyte zones - upstream	72 days	Sun 2/1/22	146	Mon 14/3/22	[Gantt bar: 2/1/22 to 14/3/22]											
150	Bedding preparation	45 days	Tue 15/3/22	149	Thu 28/4/22	[Gantt bar: 15/3/22 to 28/4/22]											
151	Excavation for open water zone	115 days	Fri 29/4/22	150	Sun 21/8/22	[Gantt bar: 29/4/22 to 21/8/22]											
152	Construction of wetland broadwalk	205 days	Thu 18/11/21	145	Fri 10/6/22	[Gantt bar: 18/11/21 to 10/6/22]											
153	Construction of Inlet and outlet structures	120 days	Mon 22/8/22	151	Mon 19/12/22	[Gantt bar: 22/8/22 to 19/12/22]											
154	Reed Planting	30 days	Tue 20/12/22	153	Wed 18/1/23	[Gantt bar: 20/12/22 to 18/1/23]											
155	Construction of birdhide	528 days	Mon 21/12/20		Wed 1/6/22	[Summary bar: 21/12/20 to 1/6/22]											
156	Excavation and formation preparation	21 days	Mon 21/12/20	141,142	Sun 10/1/21	[Gantt bar: 21/12/20 to 10/1/21]											
157	Construction of base slab	120 days	Mon 12/4/21	156	Mon 9/8/21	[Gantt bar: 12/4/21 to 9/8/21]											
158	Installation of steel structural frame	60 days	Tue 10/8/21	157	Fri 8/10/21	[Gantt bar: 10/8/21 to 8/10/21]											
159	Installation of timber wall / roof	120 days	Sat 9/10/21	158,68	Sat 5/2/22	[Gantt bar: 9/10/21 to 5/2/22]											
160	Installation of timber rised flooring	100 days	Sun 6/2/22	159	Mon 16/5/22	[Gantt bar: 6/2/22 to 16/5/22]											
161	Installation of E&M, Fire Services System	120 days	Sat 9/10/21	158,69,73	Sat 5/2/22	[Gantt bar: 9/10/21 to 5/2/22]											
162	Testing & commissioning	90 days	Fri 4/3/22	69,70,161	Wed 1/6/22	[Gantt bar: 4/3/22 to 1/6/22]											
163	Construction of farmer's forum / open area	251 days	Sun 31/10/21		Fri 8/7/22	[Summary bar: 31/10/21 to 8/7/22]											
164	Construction of tea house pavilion	251 days	Sun 31/10/21		Fri 8/7/22	[Summary bar: 31/10/21 to 8/7/22]											
165	Construction of base slab	21 days	Sun 31/10/21	142,180,72	Sat 20/11/21	[Gantt bar: 31/10/21 to 20/11/21]											
166	Construction of walls with columns	35 days	Sun 21/11/21	165	Sat 25/12/21	[Gantt bar: 21/11/21 to 25/12/21]											
167	Installation of roof steel structure	45 days	Sun 26/12/21	166	Tue 8/2/22	[Gantt bar: 26/12/21 to 8/2/22]											
168	Installation of recycled timber strip for roof	30 days	Wed 9/2/22	167	Thu 10/3/22	[Gantt bar: 9/2/22 to 10/3/22]											
169	Installation of recycled timber strip for walls	30 days	Fri 11/3/22	168	Sat 9/4/22	[Gantt bar: 11/3/22 to 9/4/22]											
170	Supply and installation of bench	30 days	Fri 11/3/22	169SS	Sat 9/4/22	[Gantt bar: 11/3/22 to 9/4/22]											

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Task		Summary		Rolled Up Milestone		External Tasks		Inactive Milestone		Duration-only		Start-only		External Milestone
Critical Task		Rolled Up Task		Rolled Up Progress		Project Summary		Inactive Summary		Manual Summary Rollup		Finish-only		Progress
Milestone		Rolled Up Critical Task		Split		Group By Summary		Manual Task		Manual Summary		External Tasks		Deadline

Kwu Tung North and Fanling North New Development Areas, Phase 1 : Development of Long Valley Nature Park

Project Programme of the Contract

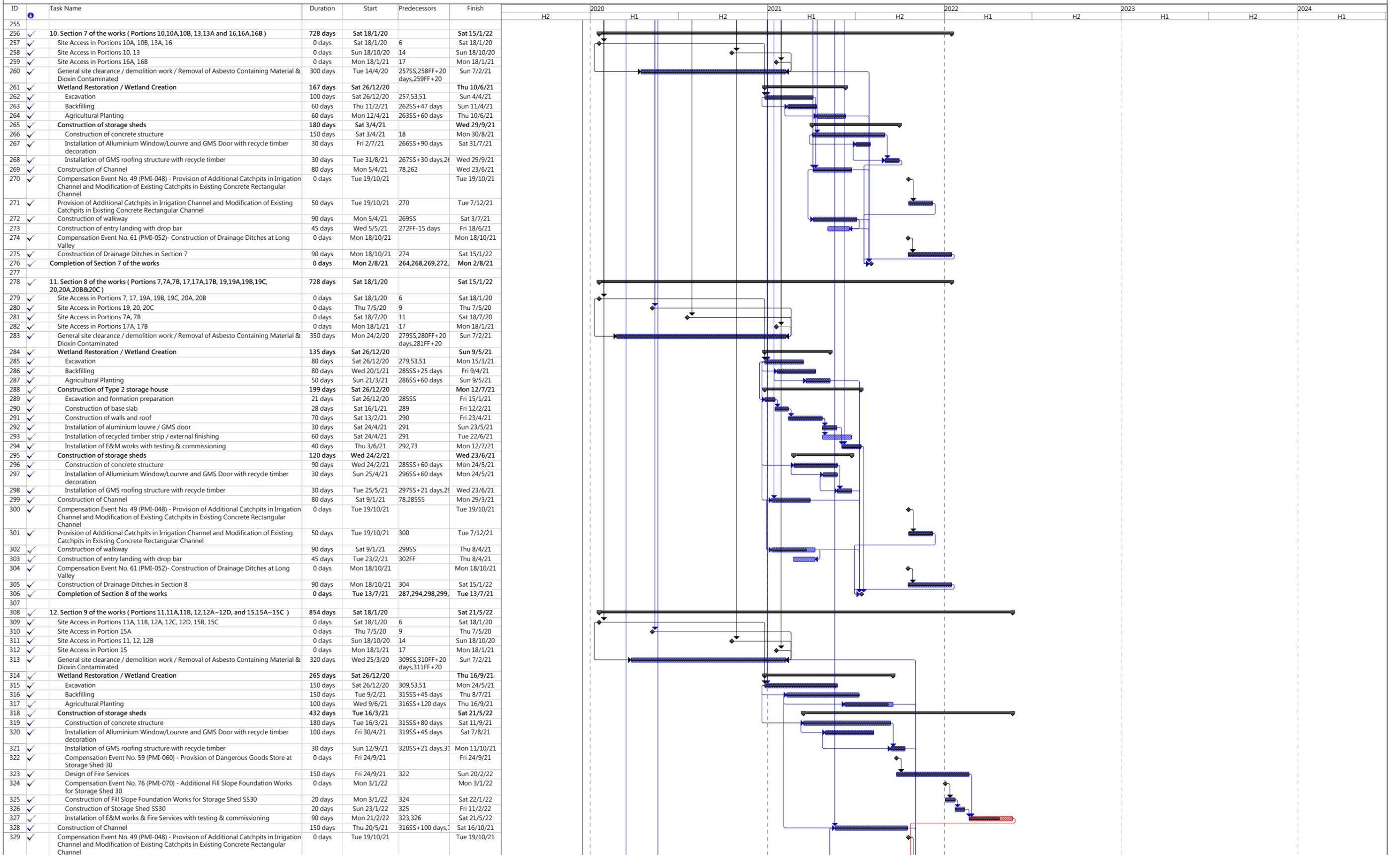
ID	Task Name	Duration	Start	Predecessors	Finish	Gantt Chart (2020-2024)											
171	Installation of plumbing works / E&M works with testing & commissioning	90 days	Sun 10/4/22	170,69,70,73	Fri 8/7/22	[Gantt bar for task 171]											
172	Construction of paving slab for open area	90 days	Wed 9/2/22	167	Mon 9/5/22	[Gantt bar for task 172]											
173	Construction of entrance gantry signages	60 days	Tue 10/5/22	172,76	Fri 8/7/22	[Gantt bar for task 173]											
174	Construction of Type 1 storage house	469 days	Tue 3/8/21		Mon 14/11/22	[Gantt bar for task 174]											
175	Compensation Event No. 58 (PMI-059)-Type 1 Storage House Revision	0 days	Thu 21/10/21		Thu 21/10/21	[Gantt bar for task 175]											
176	Design of Fire Services (CE No. 058)	150 days	Thu 21/10/21	175	Sat 19/3/22	[Gantt bar for task 176]											
177	Design of Plumbing Works (CE No. 058) & Approval by WSD	150 days	Thu 21/10/21	175	Sat 19/3/22	[Gantt bar for task 177]											
178	Excavation and formation preparation	21 days	Tue 3/8/21	39,196	Mon 23/8/21	[Gantt bar for task 178]											
179	Construction of base slab	28 days	Tue 24/8/21	178	Mon 20/9/21	[Gantt bar for task 179]											
180	Construction of walls and roof	40 days	Tue 21/9/21	179	Sat 30/10/21	[Gantt bar for task 180]											
181	Installation of aluminium louvre / GMS door	28 days	Sun 31/10/21	180	Sat 27/11/21	[Gantt bar for task 181]											
182	Installation of recycled timber strip / external finishing	73 days	Sun 28/11/21	181	Tue 8/2/22	[Gantt bar for task 182]											
183	Installation of Plumbing Works (CE No. 058)	60 days	Sun 20/3/22	182,177	Wed 18/5/22	[Gantt bar for task 183]											
184	Installation of E&M works & Fire Services with testing & commissioning	180 days	Thu 19/5/22	69,73,183	Mon 14/11/22	[Gantt bar for task 184]											
185	Construction of outdoor classroom shelter	455.2 days	Mon 26/4/21		Mon 25/7/22	[Gantt bar for task 185]											
186	Excavation and formation preparation	21 days	Mon 26/4/21	158	Wed 13/10/21	[Gantt bar for task 186]											
187	Construction of base slab	42 days	Wed 13/10/21	186	Wed 24/11/21	[Gantt bar for task 187]											
188	Construction of concrete columns	63 days	Wed 24/11/21	187	Wed 26/1/22	[Gantt bar for task 188]											
189	Installation of steel roof frame with corrugated sheet	30 days	Wed 26/1/22	188	Fri 25/2/22	[Gantt bar for task 189]											
190	Installation of recycled timber strip roofing	60 days	Fri 25/2/22	189,182	Tue 26/4/22	[Gantt bar for task 190]											
191	Installation of E&M works and Fire Services with testing & commissioning	90 days	Tue 26/4/22	190,73	Mon 25/7/22	[Gantt bar for task 191]											
192	Construction of storage composting facility	319 days	Mon 15/2/21		Thu 30/12/21	[Gantt bar for task 192]											
193	Excavation and formation preparation	22 days	Mon 15/2/21	158	Mon 8/3/21	[Gantt bar for task 193]											
194	Construction of base slab	54 days	Tue 9/3/21	193	Sat 1/5/21	[Gantt bar for task 194]											
195	Construction of concrete columns	63 days	Sun 2/5/21	194	Sat 3/7/21	[Gantt bar for task 195]											
196	Installation of steel roof frame with corrugated sheet	30 days	Sun 4/7/21	195	Mon 2/8/21	[Gantt bar for task 196]											
197	Installation of recycled timber strip roofing	60 days	Tue 3/8/21	196	Fri 1/10/21	[Gantt bar for task 197]											
198	Installation of E&M works & Fire Services with testing & commissioning	90 days	Sat 2/10/21	197,73	Thu 30/12/21	[Gantt bar for task 198]											
199	Construction of Car Park and Farmer's Forum (refer to ID426 to 444)	90 days	Sat 2/10/21	197	Thu 30/12/21	[Gantt bar for task 199]											
200	Construction of walkway	210 days	Sun 31/10/21		Sat 28/5/22	[Gantt bar for task 200]											
201	Landscaping softworks	180 days	Tue 20/12/22	150,153	Sat 17/6/23	[Gantt bar for task 201]											
202	Weeding	30 days	Tue 20/12/22		Wed 18/1/23	[Gantt bar for task 202]											
203	Soil Backfilling	60 days	Thu 19/1/23	202	Sun 19/3/23	[Gantt bar for task 203]											
204	Mutching provision	30 days	Mon 20/3/23	203	Tue 18/4/23	[Gantt bar for task 204]											
205	Planting	60 days	Wed 19/4/23	204	Sat 17/6/23	[Gantt bar for task 205]											
206	Completion of Section 3 of the works	0 days	Sat 17/9/22	152,153,162,171,	Sat 17/9/22	[Gantt bar for task 206]											
207																	
208	6. Section 3A of the works (Establishment works for Section 2 and 3)	365 days	Fri 29/12/23		Fri 27/12/24	[Gantt bar for task 208]											
209	Establishment works for landscape softworks	365 days	Fri 29/12/23	443	Fri 27/12/24	[Gantt bar for task 209]											
210	Completion of Section 3A of the Works	0 days	Fri 27/12/24	209FF	Fri 27/12/24	[Gantt bar for task 210]											
211																	
212	7. Section 4 of the works (Portion 18)	167 days	Thu 7/5/20		Wed 21/10/20	[Gantt bar for task 212]											
213	Site Access in Portion 18	0 days	Thu 7/5/20	9	Thu 7/5/20	[Gantt bar for task 213]											
214	General site clearance / demolition work / Removal of Asbestos Containing Material & Dioxin Contaminated	20 days	Fri 8/5/20	213	Wed 27/5/20	[Gantt bar for task 214]											
215	General maintenance to existing wetland	80 days	Thu 28/5/20	213,214	Sat 15/8/20	[Gantt bar for task 215]											
216	Compensation Event No. 020 - Inclement Weather Conditions in August 2020	8.5 days	Fri 18/9/20	213	Sat 26/9/20	[Gantt bar for task 216]											
217	Compensation Event No. 021 - Inclement Weather Conditions in September 2020	14.5 days	Sat 26/9/20	216	Sat 10/10/20	[Gantt bar for task 217]											
218	Compensation Event No. 028 - Inclement Weather Conditions in October 2020	3 days	Sun 11/10/20	217	Tue 13/10/20	[Gantt bar for task 218]											
219	Compensation Event No. 026 - Provision of Root Barriers behind Gabion Walls of Irrigation Channel	8 days	Wed 14/10/20	220	Wed 21/10/20	[Gantt bar for task 219]											
220	Construction of Irrigation Channel	56 days	Wed 19/8/20	213	Tue 13/10/20	[Gantt bar for task 220]											
221	Construction of Metal Wire Railing	65 days	Mon 10/8/20	213	Tue 13/10/20	[Gantt bar for task 221]											
222	Completion of Section 4 of the works	0 days	Wed 21/10/20	215,221,218,219	Wed 21/10/20	[Gantt bar for task 222]											
223	Compensation Event No. 69 (PMI-055)- Additional Stairway at Portion 18	0 days	Tue 14/12/21		Tue 14/12/21	[Gantt bar for task 223]											
224	Additional Stairway at Portion 18	90 days	Tue 14/12/21	223	Sun 13/3/22	[Gantt bar for task 224]											
225																	
226	8. Section 5 of the works (Portion 14)	90 days	Sun 18/10/20		Sat 16/1/21	[Gantt bar for task 226]											
227	Site Access in Portion 14	0 days	Sun 18/10/20	14	Sun 18/10/20	[Gantt bar for task 227]											
228	General site clearance / demolition work / Removal of Asbestos Containing Material	60 days	Mon 19/10/20	227	Thu 17/12/20	[Gantt bar for task 228]											
229	General maintenance to existing wetland	45 days	Mon 19/10/20	227	Wed 2/12/20	[Gantt bar for task 229]											
230	Boundary Structure - Metal Wire Railing	90 days	Mon 19/10/20	227	Sat 16/1/21	[Gantt bar for task 230]											
231	Completion of Section 5 of the works	0 days	Sat 16/1/21	230FF,229FF,228	Sat 16/1/21	[Gantt bar for task 231]											
232	Compensation Event No. 32 (PMI-032) - Soil Replacement Works in Portion 14	0 days	Sat 16/10/21		Sat 16/10/21	[Gantt bar for task 232]											
233	Soil Replacement Works	10 days	Sat 16/10/21	232	Mon 25/10/21	[Gantt bar for task 233]											
234																	
235	9. Section 6 of the works (Portions 8,8A,8B and 9,9A-9G)	728 days	Sat 18/1/20		Sat 15/1/22	[Gantt bar for task 235]											
236	Site Access in Portions 8A, 9A, 9C, 9E, 9F, 9G	0 days	Sat 18/1/20	6	Sat 18/1/20	[Gantt bar for task 236]											
237	Site Access in Portion 8	0 days	Sat 18/7/20	11	Sat 18/7/20	[Gantt bar for task 237]											
238	Site Access in Portions 8B, 9, 9B, 9D	0 days	Sun 18/10/20	15,16	Sun 18/10/20	[Gantt bar for task 238]											
239	General site clearance / demolition work / Removal of Asbestos Containing Material & Dioxin Contaminated	150 days	Fri 3/7/20	236SS,237FF+10 days,238FF+10	Sun 29/11/20	[Gantt bar for task 239]											
240	Wetland Restoration / Wetland Creation	200 days	Fri 19/3/21		Mon 4/10/21	[Gantt bar for task 240]											
241	Excavation	90 days	Fri 19/3/21	236,53,51,237,238	Wed 16/6/21	[Gantt bar for task 241]											
242	Backfilling	60 days	Sun 18/4/21	241SS+30 days	Wed 16/6/21	[Gantt bar for task 242]											
243	Agricultural Planting	80 days	Sat 17/7/21	242SS+90 days	Mon 4/10/21	[Gantt bar for task 243]											
244	Construction of Storage Sheds	190 days	Thu 17/6/21		Thu 23/12/21	[Gantt bar for task 244]											
245	Construction of concrete structure	150 days	Thu 17/6/21	242,238,16	Sat 13/11/21	[Gantt bar for task 245]											
246	Installation of Aluminium Window/Louvre and GMS Door with recycle timber decoration	60 days	Fri 15/10/21	245FS-30 days	Mon 13/12/21	[Gantt bar for task 246]											
247	Installation of GMS roofing structure with recycle timber	40 days	Sun 14/11/21	245	Thu 23/12/21	[Gantt bar for task 247]											
248	Construction of Channel	70 days	Thu 17/6/21	242,78	Wed 25/8/21	[Gantt bar for task 248]											
249	Compensation Event No. 49 (PMI-048) - Provision of Additional Catchpits in Irrigation Channel and Modification of Existing Catchpits in Existing Concrete Rectangular Channel	0 days	Tue 19/10/21		Tue 19/10/21	[Gantt bar for task 249]											
250	Provision of Additional Catchpits in Irrigation Channel and Modification of Existing Catchpits in Existing Concrete Rectangular Channel	50 days	Tue 19/10/21	249	Tue 7/12/21	[Gantt bar for task 250]											
251	Construction of walkway	100 days	Thu 17/6/21	242	Fri 24/9/21	[Gantt bar for task 251]											
252	Compensation Event No. 61 (PMI-052)- Construction of Drainage Ditches at Long Valley	0 days	Mon 18/10/21		Mon 18/10/21	[Gantt bar for task 252]											
253	Construction of Drainage Ditches in Section 6	90 days	Mon 18/10/21	252	Sat 15/1/22	[Gantt bar for task 253]											
254	Completion of Section 6 of the works	0 days	Sun 30/5/21	243,247,248,251,	Sun 30/5/21	[Gantt bar for task 254]											

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Task		Summary		Rolled Up Milestone		External Tasks		Inactive Milestone		Duration-only		Start-only		External Milestone	
Critical Task		Rolled Up Task		Rolled Up Progress		Project Summary		Inactive Summary		Manual Summary Rollup		Finish-only		Progress	
Milestone		Rolled Up Critical Task		Split		Group By Summary		Manual Task		Manual Summary		External Tasks		Deadline	

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Project Programme of the Contract

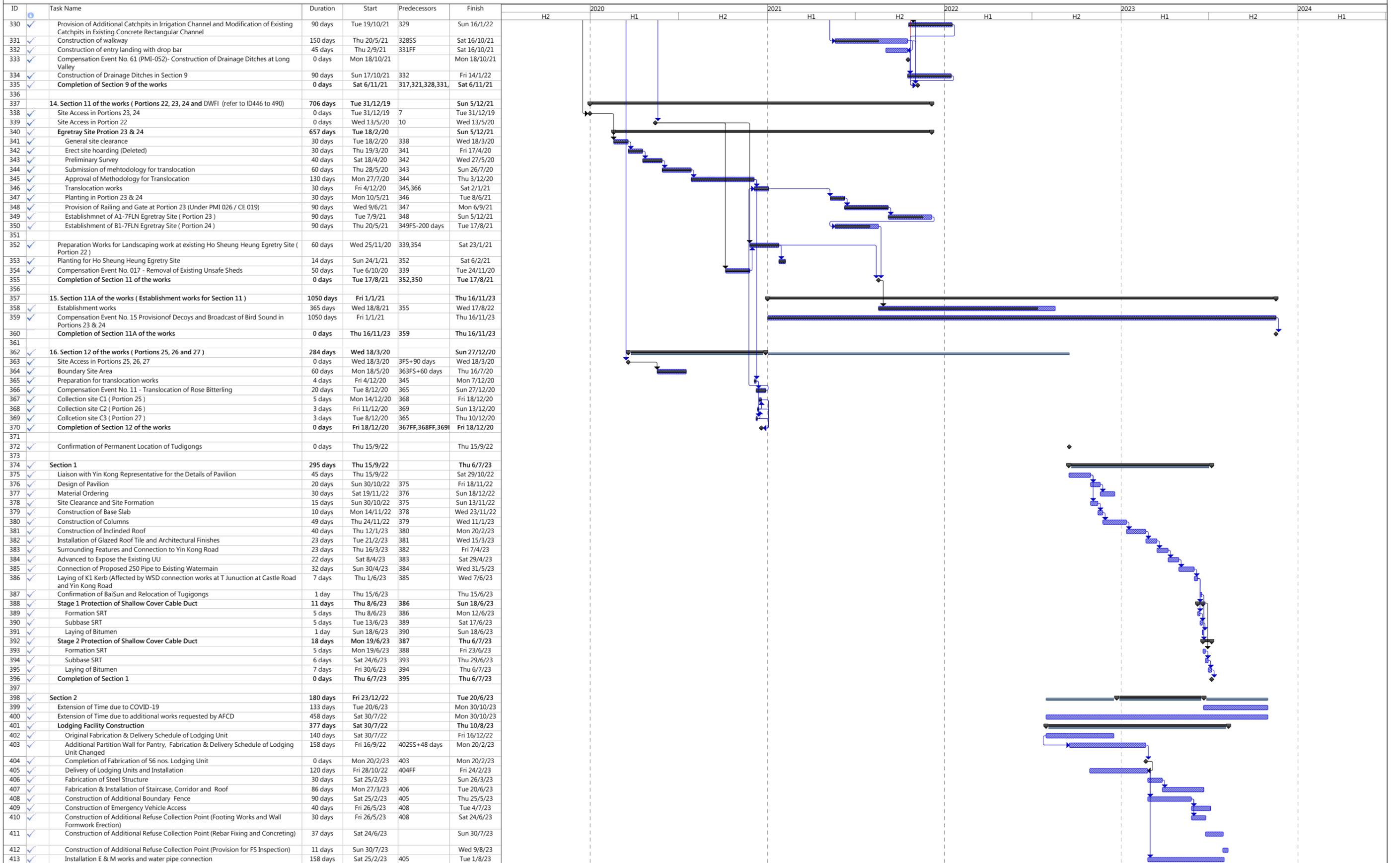


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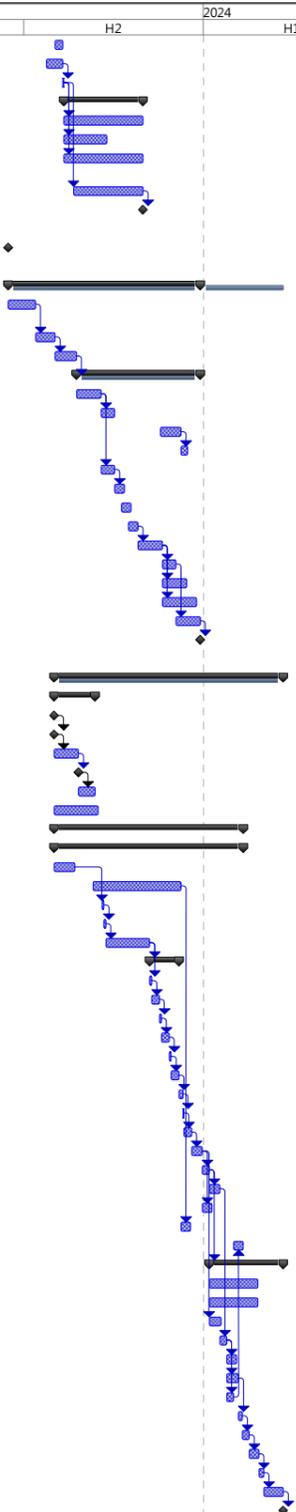
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Task	Summary	Rolled Up Milestone	External Tasks	Inactive Milestone	Duration-only	Start-only	External Milestone
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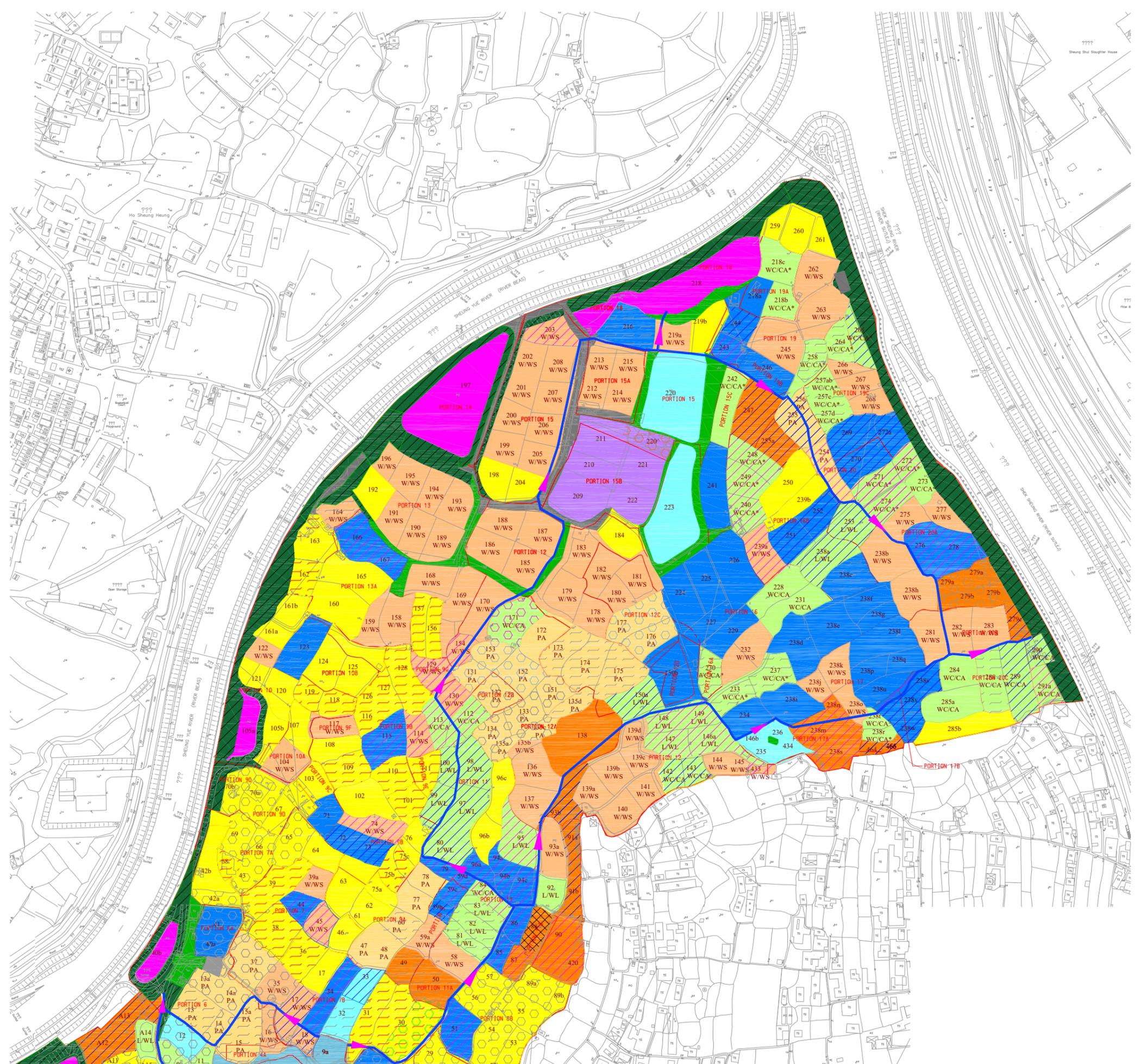
Project Programme of the Contract

ID	Task Name	Duration	Start	Predecessors	Finish	2020		2021		2022		2023		2024	
						H2	H1	H2	H1	H2	H1	H2	H1		
414	CLP Energization	8 days	Wed 2/8/23		Wed 9/8/23										
415	FS Submission 314/501 and FSD Approval	17 days	Mon 24/7/23		Wed 9/8/23										
416	FS Inspection	1 day	Thu 10/8/23	415	Thu 10/8/23										
417	Remaining Works of Section 2	81 days	Fri 11/8/23		Mon 30/10/23										
418	Remaining Works for Block A to Block E	81 days	Fri 11/8/23	416	Mon 30/10/23										
419	Construction of Guard House (Remaining Works)	44 days	Fri 11/8/23	416	Sat 23/9/23										
420	Construction of Additional Refuse Collection Point (E&M Works and ABWF Works)	81 days	Fri 11/8/23	416	Mon 30/10/23										
421	Construction of Additional Boundary Fence (Remaining Works)	71 days	Mon 21/8/23	416	Mon 30/10/23										
422	Completion of Section 2 Works	0 days	Mon 30/10/23	421	Mon 30/10/23										
423															
424	Confirmation of BaiSun and Relocation of Tudigongs	0 days	Thu 15/6/23		Thu 15/6/23										
425															
426	Section 3	197 days	Thu 15/6/23		Thu 28/12/23										
427	Advance Works for Removal of Asbesto Roof Panel (scaffolding) -- No work is allowed before Relocation of Tudigongs	28 days	Thu 15/6/23		Wed 12/7/23										
428	Removal of Asbesto Roof Panel	20 days	Thu 13/7/23	427	Tue 1/8/23										
429	Demolition of Village House and Site Clearance	22 days	Wed 2/8/23	428	Wed 23/8/23										
430	Construction of Car Park	127 days	Thu 24/8/23	429	Thu 28/12/23										
431	Preparation of Formation	25 days	Thu 24/8/23		Sun 17/9/23										
432	Laying of Cable Duct and Drawpit	14 days	Mon 18/9/23	431	Sun 1/10/23										
433	Installation of Lighting Pole & Pillar Box	21 days	Sat 18/11/23		Fri 8/12/23										
434	CLP Energise	7 days	Sat 9/12/23	433	Fri 15/12/23										
435	Laying of Sewerage Pipe	14 days	Mon 18/9/23	431	Sun 1/10/23										
436	Formation Layer	10 days	Mon 2/10/23	435	Wed 11/10/23										
437	Subbase	10 days	Mon 9/10/23		Wed 18/10/23										
438	Final Layer	10 days	Mon 16/10/23		Wed 25/10/23										
439	Construction of Road Kerb	25 days	Thu 26/10/23	438	Sun 19/11/23										
440	Construction of U-channel	14 days	Mon 20/11/23	439	Sun 3/12/23										
441	Construction of Boundary Structure	25 days	Mon 20/11/23	439	Thu 14/12/23										
442	Construction of Entrance Gantry	35 days	Mon 20/11/23	439	Sun 24/12/23										
443	Construction of Pavement and remaining Landscape Works	25 days	Mon 4/12/23	440	Thu 28/12/23										
444	Completion of Section 3	0 days	Thu 28/12/23	443	Thu 28/12/23										
445															
446	Section 11 - Remaining Works for DWFI	235 days	Tue 1/8/23		Fri 22/3/24										
447	Revised DWFI Design due to Objection by Yin Kong Villagers	42 days	Tue 1/8/23		Mon 11/9/23										
448	Received Yin Kong Villagers Objection of Pillar Box Location	0 days	Tue 1/8/23		Tue 1/8/23										
449	Site Meeting with Yin Kong Village Representative and AECOM	0 days	Tue 1/8/23	448	Tue 1/8/23										
450	Re-design of Pillar Box Location and DWFI Pumping Chamber	25 days	Tue 1/8/23	449	Fri 25/8/23										
451	Site Meeting with Yin Kong Village Representative, DSD, CEDD and AECOM	0 days	Fri 25/8/23	450	Fri 25/8/23										
452	Construct Demonstration Panel for Village Representative Agreement	17 days	Sat 26/8/23	451	Mon 11/9/23										
453	ELS Design and Method Statement Approval	45 days	Tue 1/8/23		Thu 14/9/23										
454	Construction of DWFI	194 days	Tue 1/8/23		Sat 10/2/24										
455	Civil Works	194 days	Tue 1/8/23		Sat 10/2/24										
456	Moved away the Pillar Box and Trimmed off the concrete plinth	21 days	Tue 1/8/23		Mon 21/8/23										
457	Materials Ordering of Multi Part Cover	90 days	Sun 10/9/23		Fri 8/12/23										
458	Dismantle installed DI pipe and E&M equipment in Pumping Chamber	2 days	Tue 19/9/23	456	Wed 20/9/23										
459	Saw cut the Pumping Chamber	2 days	Thu 21/9/23	458	Fri 22/9/23										
460	Remove concrete debris and site clearance	45 days	Sat 23/9/23	459	Mon 6/11/23										
461	Top Down Construction Method for Retaining Wall	30 days	Tue 7/11/23	460	Wed 6/12/23										
462	Excavation of 1st Layer (from +7.00 to +6.00mPD)	2 days	Tue 7/11/23	460	Wed 8/11/23										
463	Construct Layer 1 Retaining Wall (from +7.00 to +6.00mPD)	8 days	Thu 9/11/23	462	Thu 16/11/23										
464	Excavation of 2nd Layer (from +6.00 to +5.00mPD)	2 days	Fri 17/11/23	463	Sat 18/11/23										
465	Construct Layer 2 Retaining Wall (from +6.00 to +5.00mPD)	8 days	Sun 19/11/23	464	Sun 26/11/23										
466	Excavation of 3rd Layer (from +5.00 to +4.40mPD)	2 days	Mon 27/11/23	465	Tue 28/11/23										
467	Construct Layer 3 Retaining Wall (from +5.00 to +4.40mPD)	8 days	Wed 29/11/23	466	Wed 6/12/23										
468	Dismantle formwork and site clearance	4 days	Thu 7/12/23	467	Sun 10/12/23										
469	Cast bottom blinding layer	1 day	Mon 11/12/23	468	Mon 11/12/23										
470	Construction of Base Slab of Pumping Chamber	8 days	Tue 12/12/23	469	Tue 19/12/23										
471	Construction of Wall for Pumping Chamber	11 days	Wed 20/12/23	470	Sat 30/12/23										
472	Excavation for the Pillar Box concrete plinth	7 days	Sun 31/12/23	471	Sat 6/1/24										
473	Construction of the Pillar Box concrete plinth	11 days	Sun 7/1/24	472	Wed 17/1/24										
474	Waterproofing Coating for internal Slab and Wall	10 days	Sun 31/12/23	471	Tue 9/1/24										
475	Install Multi Part Cover	10 days	Sat 9/12/23	457	Mon 18/12/23										
476	Construct GMS Fencing	10 days	Thu 1/2/24	484	Sat 10/2/24										
477	E&M / Drainage Works	76 days	Sun 7/1/24	472	Fri 22/3/24										
478	Materials Ordering of Puddle Flange	50 days	Sun 7/1/24		Sun 25/2/24										
479	CLP Cable Wiring	50 days	Sun 7/1/24		Sun 25/2/24										
480	Install DI pipe and E&M equipment in Pumping Chamber	12 days	Sun 7/1/24	471	Thu 18/1/24										
481	Reserve uPVC pipe for cable works	7 days	Thu 18/1/24	473	Wed 24/1/24										
482	Connect PE pipe to existing Manhole DC1	10 days	Thu 25/1/24	481	Sat 3/2/24										
483	Construct Pillar Box	12 days	Thu 25/1/24	481	Mon 5/2/24										
484	Construction of Davit for Pumping Chamber	7 days	Thu 25/1/24	481	Wed 31/1/24										
485	CLP cut-out and meter installation	4 days	Tue 6/2/24	483	Fri 9/2/24										
486	HKT cable wiring	7 days	Sat 10/2/24	485	Fri 16/2/24										
487	Installation of SCADA System and CCTV	10 days	Sat 17/2/24	486	Mon 26/2/24										
488	Testing of Pumps	5 days	Tue 27/2/24	487	Sat 2/3/24										
489	Testing for Signal Transmitting to DSD	20 days	Sun 3/3/24	488	Fri 22/3/24										
490	Completion of DWFI Works (Section 11)	0 days	Fri 22/3/24	489	Fri 22/3/24										



Revised Programme: Nov 2023
Date : 2023-11-3

Task		Summary		Rolled Up Milestone		External Tasks		Inactive Milestone		Duration-only		Start-only		External Milestone	
Critical Task		Rolled Up Task		Rolled Up Progress		Project Summary		Inactive Summary		Manual Summary Rollup		Finish-only		Progress	
Milestone		Rolled Up Critical Task		Split		Group By Summary		Manual Task		Manual Summary		External Tasks		Deadline	

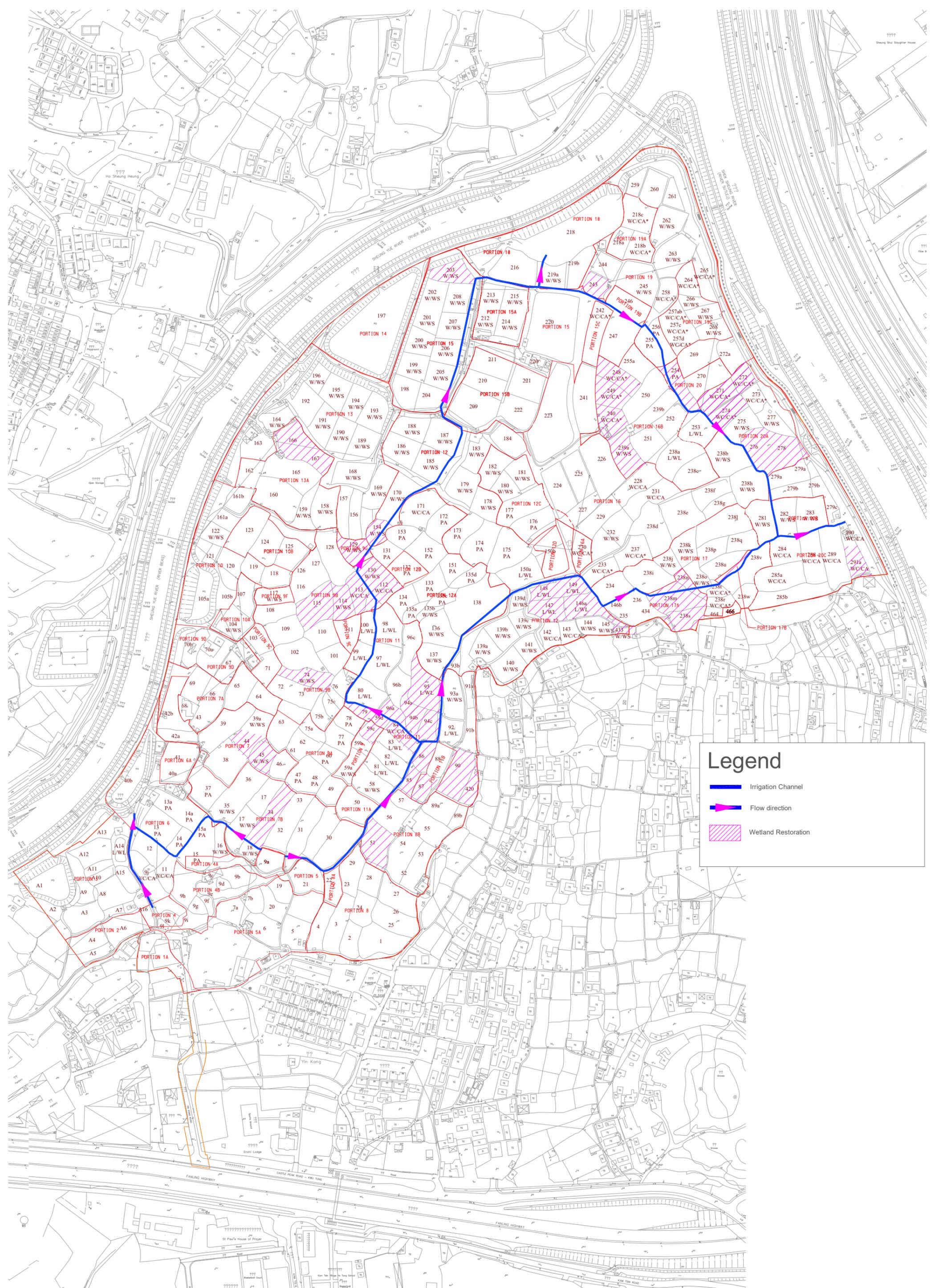


Legend

 W/W/S	Intensive Wet Agricultural Land - Watercress/Water Spinach	 	Mitigation Plantation
 WC/CA	Less Intensive Wet Agricultural Land - Water Chestnut/ Chinese Arrowhead	 	Village Area/ Urban/Residential Area
 LWL	Less Intensive Wet Agricultural Land - Lotus/Water Lily	 	Water Treatment Wetland
 PA	Intensive Wet Agricultural Land - Paddy Field	 	Irrigation Channel
 	Marsh - Open Water	 	Flow direction
 	Marsh		
 	Marsh - Reedbed		
 	Pond		
 	Water Flea Pond		
 	Mitigation Wetland		
 	Dry Agricultural Land		
 	Plantation		

(*) Habitat planted with low density of wet crops (<20% coverage) that concentrate at the centre

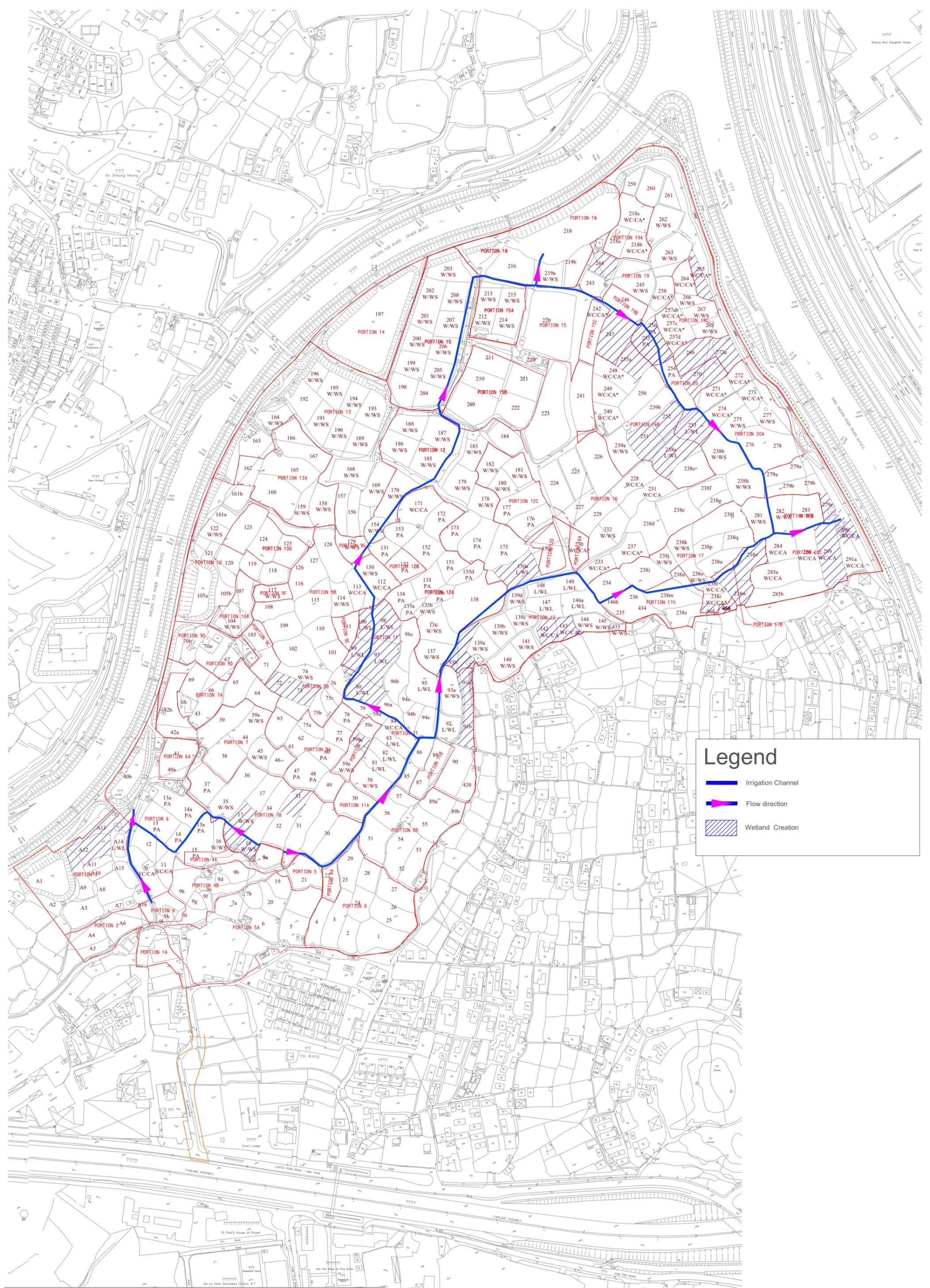
Figure 3. LVNP proposed layout plan



Legend

-  Irrigation Channel
-  Flow direction
-  Wetland Restoration

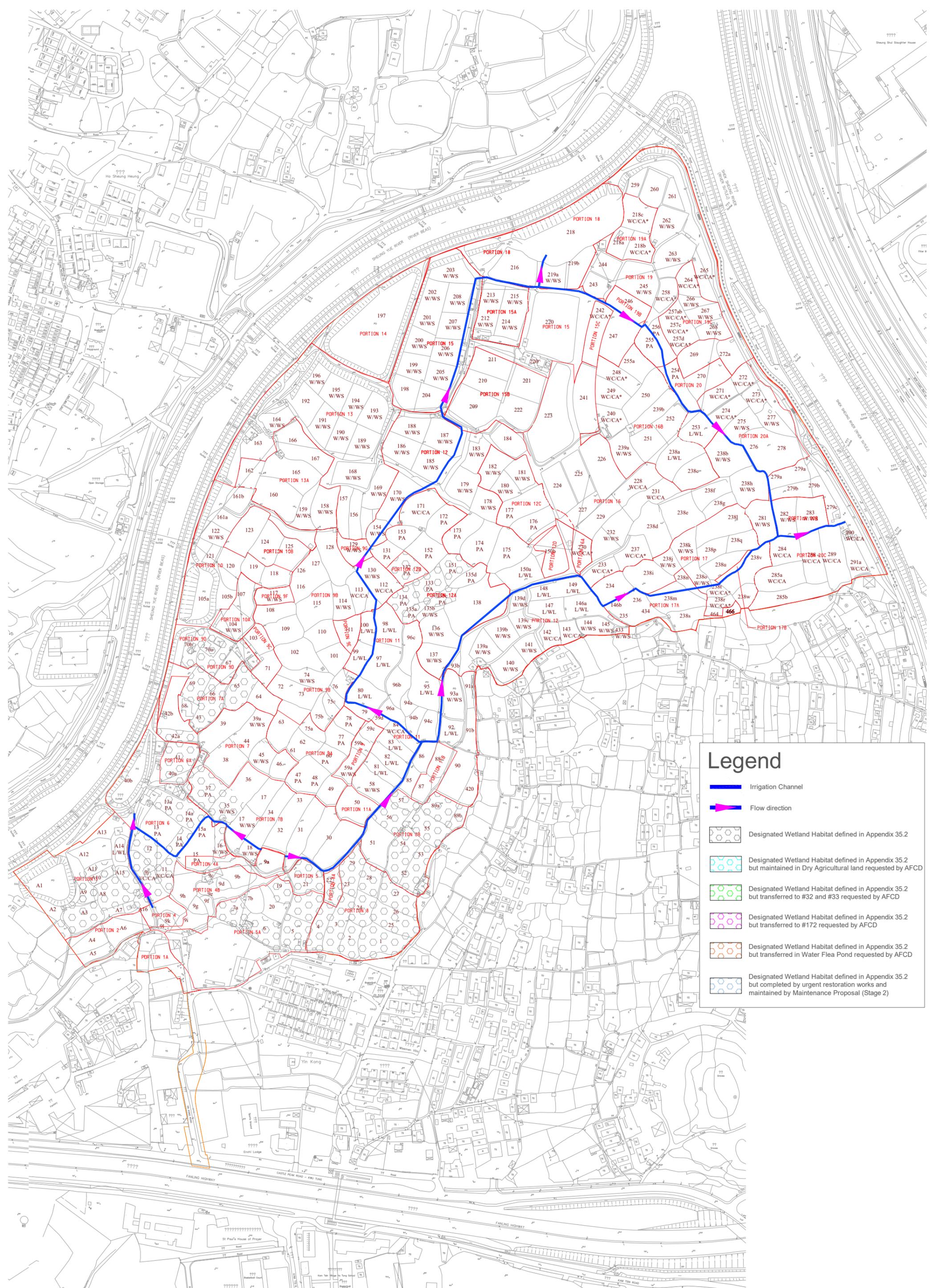
Figure 3a. The locations of wetland to be restored



Legend

- Irrigation Channel
- Flow direction
- Wetland Creation

Figure 3b. The locations of wetland to be created



Legend

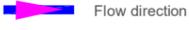
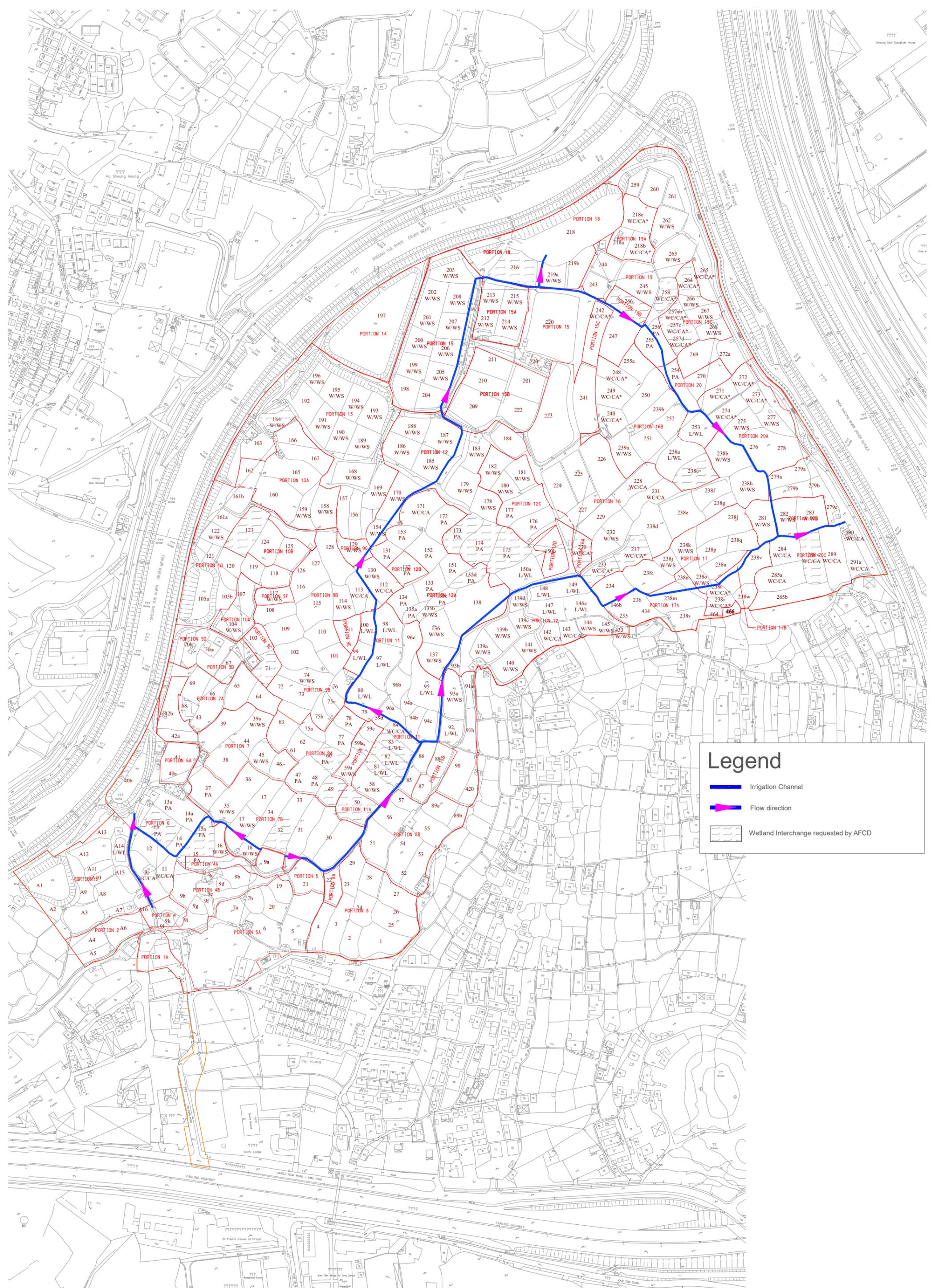
-  Irrigation Channel
-  Flow direction
-  Designated Wetland Habitat defined in Appendix 35.2
-  Designated Wetland Habitat defined in Appendix 35.2 but maintained in Dry Agricultural land requested by AFCD
-  Designated Wetland Habitat defined in Appendix 35.2 but transferred to #32 and #33 requested by AFCD
-  Designated Wetland Habitat defined in Appendix 35.2 but transferred to #172 requested by AFCD
-  Designated Wetland Habitat defined in Appendix 35.2 but transferred in Water Flea Pond requested by AFCD
-  Designated Wetland Habitat defined in Appendix 35.2 but completed by urgent restoration works and maintained by Maintenance Proposal (Stage 2)

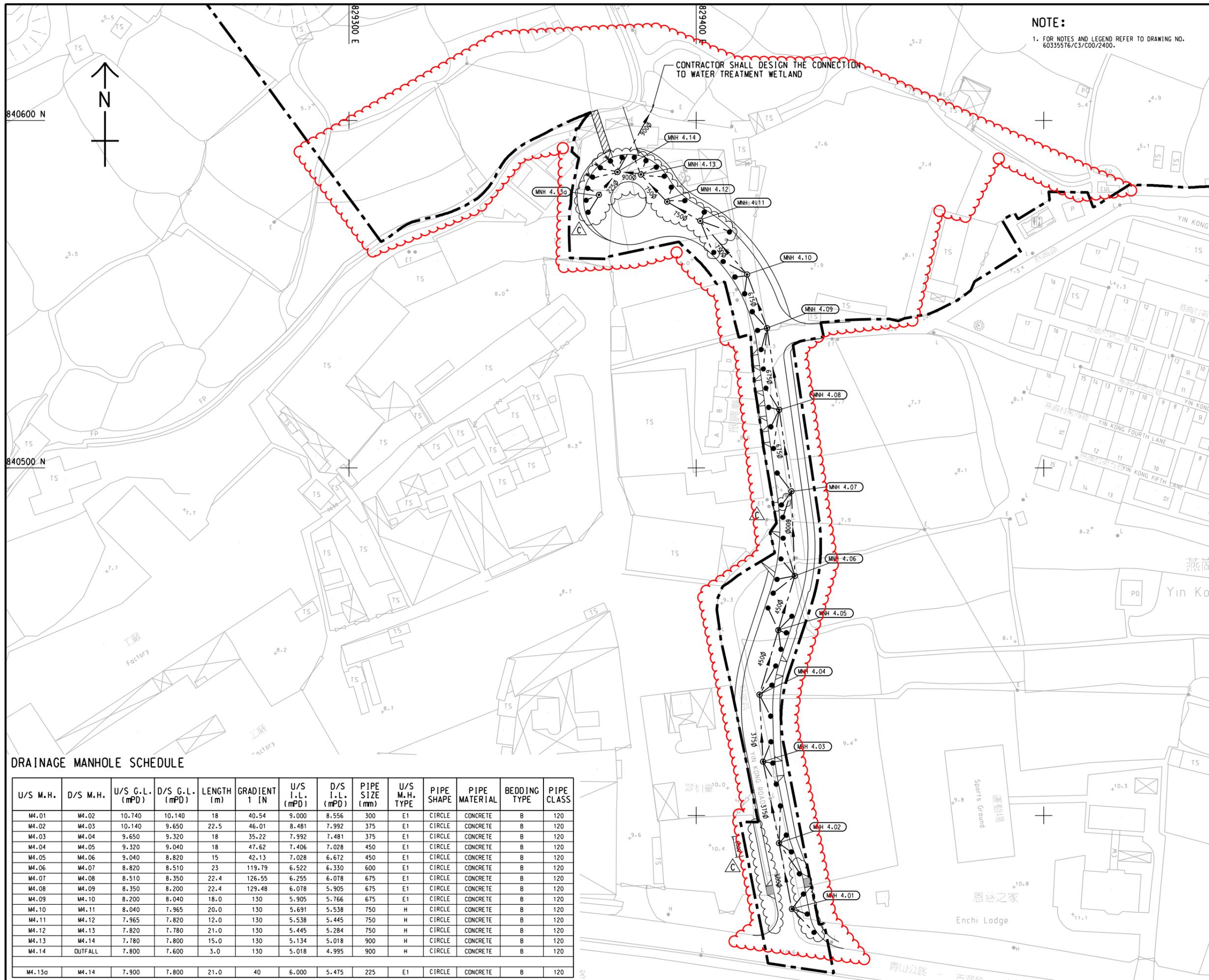
Figure 3c. Designated wetland habitats in Appendix 35.2



Legend

-  Irrigation Channel
-  Flow direction
-  Wetland Interchange requested by AFCD

Figure 3d. Wetland interchange requested by AFCD



DRAINAGE MANHOLE SCHEDULE

U/S M.H.	D/S M.H.	U/S G.L. (mPD)	D/S G.L. (mPD)	LENGTH (m)	GRADIENT 1 IN	U/S I.L. (mPD)	D/S I.L. (mPD)	PIPE SIZE (mm)	U/S M.H. TYPE	PIPE SHAPE	PIPE MATERIAL	BEDDING TYPE	PIPE CLASS
M4.01	M4.02	10.740	10.140	18	40.54	9.000	8.556	300	E1	CIRCLE	CONCRETE	B	120
M4.02	M4.03	10.140	9.650	22.5	46.01	8.481	7.992	375	E1	CIRCLE	CONCRETE	B	120
M4.03	M4.04	9.650	9.320	18	35.22	7.992	7.481	375	E1	CIRCLE	CONCRETE	B	120
M4.04	M4.05	9.320	9.040	18	47.62	7.406	7.028	450	E1	CIRCLE	CONCRETE	B	120
M4.05	M4.06	9.040	8.820	15	42.13	7.028	6.672	450	E1	CIRCLE	CONCRETE	B	120
M4.06	M4.07	8.820	8.510	23	119.79	6.522	6.330	600	E1	CIRCLE	CONCRETE	B	120
M4.07	M4.08	8.510	8.350	22.4	126.55	6.255	6.078	675	E1	CIRCLE	CONCRETE	B	120
M4.08	M4.09	8.350	8.200	22.4	129.48	6.078	5.905	675	E1	CIRCLE	CONCRETE	B	120
M4.09	M4.10	8.200	8.040	18.0	130	5.905	5.766	675	E1	CIRCLE	CONCRETE	B	120
M4.10	M4.11	8.040	7.965	20.0	130	5.691	5.538	750	H	CIRCLE	CONCRETE	B	120
M4.11	M4.12	7.965	7.820	12.0	130	5.538	5.445	750	H	CIRCLE	CONCRETE	B	120
M4.12	M4.13	7.820	7.780	21.0	130	5.445	5.284	750	H	CIRCLE	CONCRETE	B	120
M4.13	M4.14	7.780	7.800	15.0	130	5.134	5.018	900	H	CIRCLE	CONCRETE	B	120
M4.14	OUTFALL	7.800	7.600	3.0	130	5.018	4.995	900	H	CIRCLE	CONCRETE	B	120
M4.13a	M4.14	7.900	7.800	21.0	40	6.000	5.475	225	E1	CIRCLE	CONCRETE	B	120

NOTE:
1. FOR NOTES AND LEGEND REFER TO DRAWING NO. 60335576/C3/C00/2400.

CONTRACTOR SHALL DESIGN THE CONNECTION TO WATER TREATMENT WETLAND

C	21/05/21	LAYOUT AMENDED	HLH	DT	WT
B	7/12/20	ROAD ALIGNMENT AMENDED	KLC	DT	WT
A	15/07/20	RUN IN ADDED AND MANHOLE RE-ARRANGED	KLC	DF	PY

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.

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

CONSULTANT
AECOM

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

CONTRACT TITLE
KWU TUNG NORTH AND FANLING NORTH NEW DEVELOPMENT AREAS, PHASE 1: DEVELOPMENT OF LONG VALLEY NATURE PARK

REMARK:
1. SUPERSEDE DRG NO. 60335576/C3/C00/2410

TITLE
YIN KONG ROAD - ROAD DRAINAGE LAYOUT

PROJECT NO. 60335576	CONTRACT NO. ND/2019/03	
SCALE 1:500 (A1)	DATE 4-JUN-20	
DRAWN KLC	PREPARED DF	APPROVED PY
SKETCH NO. ND/2019/03/R10/130/0052		REV. C

Construction Programme of ND/2019/04



Activity ID	Activity Name	Orig. Dur.	Rem. Dur.	Start	Finish	BL Start RP07	BL Finish RP07	Total Float	Activity % Complete	2024			2025							
										Oct	Nov	Dec	Jan	Feb	Mar	Apr	May			
2024-10 Monthly Update (based on RP07-7 Accepted on 31 October 2023)																				
Project Contractual Dates																				
Contract Sectional Completion Date																				
CD-1170	S3 All works within Portion K1 including landscape softworks (1125 days)	0	0		17-Dec-24*		01-Feb-24	-457	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		04-Dec-24*		27-Feb-24	-411	0%											
Planned Key Dates & Sectional Completion Date																				
Planned Sectional Completion Dates																				
PD-1030	S3 All works within Portion K1 including landscape softworks (1125 days)	0	0		17-Dec-24		01-Feb-24	-457	0%											
PD-1040	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		04-Dec-24		27-Feb-24	-411	0%											
PD-1130	S9 All landscape softworks not covered by other sections of the works (1790 days)	0	0		07-Mar-25		10-Jul-25	138	0%											
PD-1150	S8 Preservation and Protection of existing trees (1790 days)	0	0		07-Mar-25		10-Jul-25	138	0%											
Construction Works																				
Initial Works																				
CW-1010	Protection of tree at different portions (S8)	429	7	22-Jul-23 A	15-Nov-24	08-Aug-23	18-Mar-25	110	98.37%											
TTAs at Proximity of Interchange (Bet. Ma Sik Rd and Sha Tau Kok Road)																				
TTA no.3																				
INTS3-0010	Design, submit, processing & approval for TTA no.3	180	44	15-May-23 A	31-Dec-24	15-May-23	17-Apr-24	-96	75.56%											
At-grade Roadworks Including External Works																				
Portion A																				
Noise Barrier NB91																				
OTH-A-500.3	Noise barrier 91- ELSW for pile cap	30	7	28-May-24 A	15-Nov-24	21-Oct-23	25-Nov-23	-264	76.67%											
OTH-A-5000	Noise barrier 91- Footing (Stage 1)	45	30	21-Jun-24 A	20-Dec-24	27-Nov-23	20-Jan-24	-264	33.33%											
OTH-A-5010	Noise barrier 91 - Stem Wall (Stage 2)	45	40	09-Jul-24 A	12-Feb-25	22-Jan-24	16-Mar-24	-264	11.11%											
OTH-A-5020	Noise barrier 91 - Steel post works (29 nos)	80	80	13-Feb-25	23-May-25	18-Mar-24	26-Jun-24	-264	0%											
Portion B																				
South Part of L3 Road																				
Southbound																				
OTH-B-4050	Temporary access	30	30	08-Nov-24	12-Dec-24	07-Dec-23	13-Jan-24	-177	0%											

■ Remaining Work ◆ Crit Milestone
◇ Milestone ■ Actual Work
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Three Months Rolling Programme (08 November 2024 to 28 February 2025)

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Baseline Programme RP07 Accepted on 31 October 2023			
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Activity ID	Activity Name	Orig. Dur.	Rem. Dur.	Start	Finish	BL Start RP07	BL Finish RP07	Total Float	Activity % Complete	2024			2025				
										Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
OTH-B-4070	Watermain	50	50	05-Mar-25	08-May-25	24-Aug-24	24-Oct-24	-177	0%								
Northbound (From Ma Sik Rd to CL 250)																	
OTH-B-5010	Drainage works	50	14	25-Mar-24 A	31-Dec-24	25-Apr-24	25-Jun-24	-177	72%								
OTH-B-5030	Watermain	50	50	02-Jan-25	04-Mar-25	26-Jun-24	23-Aug-24	-177	0%								
OTH-B-5100b	Procurement (by CLP)	180	37	17-Nov-23 A	20-Dec-24	17-Nov-23	28-Jun-24	112	79.44%								
North Part of L3 Road																	
Southbound																	
OTH-B-6000a	Drainage works	34	20	09-Aug-24 A	30-Nov-24	01-Feb-24	14-Mar-24	-142	41.18%								
OTH-B-6010	Backfilling for watermain	45	45	02-Dec-24	25-Jan-25	15-Mar-24	11-May-24	-142	0%								
OTH-B-6020	Watermain	25	25	27-Jan-25	27-Feb-25	13-May-24	12-Jun-24	-142	0%								
OTH-B-6030	Backfilling for UUs	27	27	28-Feb-25	31-Mar-25	13-Jun-24	15-Jul-24	-142	0%								
Northbound																	
OTH-B-7000	Excavation for U-trough	51	25	09-Sep-24 A	06-Dec-24	24-Oct-23	21-Dec-23	-141	50.98%								
OTH-B-7010	Slab of U-trough	54	28	07-Nov-24 A	11-Jan-25	22-Dec-23	29-Feb-24	-141	48.15%								
OTH-B-7020	Wall of U-trough	48	48	13-Jan-25	12-Mar-25	01-Mar-24	30-Apr-24	-141	0%								
OTH-B-7070a	Procurement of Lighting for gantry	199	173	08-Oct-24 A	12-Jun-25	12-Oct-23	15-Jun-24	-111	13.07%								
Portion S																	
OTH-1050b70	Removal of ELS and Backfilling	23	23	08-Nov-24	04-Dec-24	21-Nov-23	16-Dec-23	-334	0%								
Bridge F																	
Stage 10 ELS installation & Excavation and Pile Cap & piers in S.side																	
BWFW-10050	Remove the temporary fill in the cofferdam (F-02)	12	12	08-Nov-24	21-Nov-24	05-Apr-24	18-Apr-24	-36	0%								
Stage 14 Falsework Removal and Bridge Deck construction in S.side																	
BWFW-14000	Bridge Deck construction between abt F-01M and pier F-02 (after F-02 and F-03 deck)	54	11	23-Sep-24 A	20-Nov-24	14-Jun-24	16-Aug-24	-35	79.63%								
BWFW-14010	Post-tensioning works (include 7 days for required concrete strength) between abt F-01M and pier F-02	11	11	22-Nov-24	04-Dec-24	17-Aug-24	29-Aug-24	-36	0%								
BWFW-14020	Removal of the falsework	24	24	05-Dec-24	04-Jan-25	30-Aug-24	27-Sep-24	-9	0%								
Stage 15 Bridge Furniture installation of Bridge																	
BWFW-15000	Installation of all furniture into Bridge F	64	64	05-Dec-24	24-Feb-25	30-Aug-24	15-Nov-24	-36	0%								
BWFW-15000-1	Installation of road lighting	25	25	25-Feb-25	25-Mar-25	16-Nov-24	14-Dec-24	72	0%								

■ Remaining Work ◆ Crit Milestone
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 Project Baseline
 Critical Remaining Work

Project ID: RP07-7-MU10-2024-1

Three Months Rolling Programme (08 November 2024 to 28 February 2025)

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Baseline Programme RP07 Accepted on 31 October 2023			
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Activity ID	Activity Name	Orig. Dur.	Rem. Dur.	Start	Finish	BL Start RP07	BL Finish RP07	Total Float	Activity % Complete	2024			2025					
										Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	
BWFW-15010	TCSS cable and TCSS equipment installation	58	58	25-Feb-25	09-May-25	16-Nov-24	25-Jan-25	-36	0%									
BWFW-15040	Noise Barrier NB 48 92 93 (bridge F) (S11)	84	84	05-Dec-24	19-Mar-25	30-Aug-24	09-Dec-24	-33	0%									
Stage 16 Slope reinstatement in both sides of Ng Tung River																		
BWFW-16000	Reinstate the slope in both sides	60	36	05-Apr-24 A	19-Feb-25	03-Oct-24	12-Dec-24	-9	40%									
Bridge A1																		
Construction of Bridge A1 Deck																		
Between Pier A1-04 and Pier A1-03 (Deck A) & Pier A1-04 and A1-05 (Deck B)																		
BWBD-1062-1	Cast in-site Bridge Deck btw A1-03 and A1-04 (Deck A) & btw A1-04 and A1-05 (Deck B), 52days/span	52	17	15-Apr-24 A	27-Nov-24	11-Mar-24	16-May-24	-212	68.27%									
BWBD-1062-2	Post tensioning slab tendons btw A1-03 and A1-04 (Deck A) & btw A1-04 and A1-05 (Deck B)	13	7	27-Jun-24 A	05-Dec-24	17-May-24	30-May-24	-207	44%									
BWBD-1062-3	Removal of scaffolding btw A1-03 and A1-04 (Deck A) & btw A1-04 and A1-05 (Deck B)	19	10	10-Jul-24 A	16-Dec-24	31-May-24	22-Jun-24	-207	50%									
Between Pier A1-03 and Pier A1-02 (Deck A) & Pier A1-03 and A1-04 (Deck B)																		
BWBD-1063-1	Cast in-site Bridge Deck, btw A1-02 and A1-03 (Deck A) & btw A1-03 and A1-04 (Deck B), 52days/span	52	20	01-Aug-24 A	19-Dec-24	17-May-24	18-Jul-24	-212	62.5%									
BWBD-1063-2	Post tensioning slab tendons btw A1-02 and A1-03 (Deck A) & btw A1-03 and A1-04 (Deck B)	12	12	20-Dec-24	06-Jan-25	19-Jul-24	01-Aug-24	-212	0%									
BWBD-1063-3	Removal of scaffolding btw A1-02 and A1-03 (Deck A) & btw A1-03 and A1-04 (Deck B)	19	19	07-Jan-25	28-Jan-25	02-Aug-24	23-Aug-24	-212	0%									
Between Pier A1-02 and Pier A1-01 (Deck A) & Pier A1-02 and A1-03 (Deck B)																		
BWBD-1064	Falsework erection btw A1-01 and A1-02 (Deck A) & btw A1-02 and A1-03 (Deck B)	21	11	29-Jul-24 A	31-Dec-24	24-Jun-24	18-Jul-24	-207	50%									
BWBD-1064-2	Cast in-site Bridge Deck btw A1-01 and A1-02 (Deck A) & btw A1-02 and A1-03 (Deck B) 52days/span	52	39	09-Aug-24 A	19-Feb-25	19-Jul-24	17-Sep-24	-207	25%									
BWBD-1064-3	Post tensioning slab tendons btw A1-01 and A1-02 (Deck A) & btw A1-02 and A1-03 (Deck B)	12	12	19-Feb-25	05-Mar-25	19-Sep-24	03-Oct-24	-182	0%									
BWBD-1064-4	Removal of scaffolding btw A1-01 and A1-02 (Deck A) & btw A1-02 and A1-03 (Deck B)	19	19	05-Mar-25	27-Mar-25	04-Oct-24	26-Oct-24	-182	0%									
Between Pier A1-06 and Pier A2-02 (Deck A) & Pier A1-01 and A1-02 (Deck B)																		
BWBD-1065	Falsework erection btw A1-06 and A2-02 (Deck A) & btw A1-01 and A1-02 (Deck B)	21	21	01-Feb-25	25-Feb-25	24-Aug-24	17-Sep-24	-212	0%									
BWBD-1065-1	Cast in-site Bridge Deck btw A1-06 and A2-02 (Deck A) & btw A1-01 and A1-02 (Deck B), 52days/span	52	52	26-Feb-25	02-May-25	19-Sep-24	20-Nov-24	-212	0%									
Bridge A1 (Stitching and Parapet)																		
BWF-1040-1	Long. Stitch (Bridge A1)- 1 span, between A1-06 and A1-05, 14 d/ span	14	14	08-Nov-24	23-Nov-24	20-Jan-24	05-Feb-24	-188	0%									
BWF-1040-11	Parapet between A1-06 and A1-05, 32 d/ span	32	32	25-Nov-24	03-Jan-25	06-Feb-24	16-Mar-24	-188	0%									
BWF-1040-2	Long. Stitch (Bridge A1)- 1 span, between A1-05 and A1-04, 14 d/ span	14	14	25-Nov-24	10-Dec-24	25-Mar-24	13-Apr-24	-170	0%									
BWF-1040-21	Parapet between A1-05 and A1-04, 32 d/ span	32	32	04-Jan-25	13-Feb-25	15-Apr-24	23-May-24	-188	0%									
BWF-1040-3	Long. Stitch (Bridge A1)- 1 span, between A1-04 and A1-03, 14 d/ span	14	14	11-Dec-24	28-Dec-24	31-May-24	17-Jun-24	-152	0%									

■ Remaining Work ◆ Crit Milestone
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Project ID: RP07-7-MU10-2024-1

Three Months Rolling Programme (08 November 2024 to 28 February 2025)

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Baseline Programme RP07 Accepted on 31 October 2023			
Date	Revision	Checked	Approved
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Activity ID	Activity Name	Orig. Dur.	Rem. Dur.	Start	Finish	BL Start RP07	BL Finish RP07	Total Float	Activity % Complete	2024			2025					
										Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	
BWF-1040-31	Parapet between A1-04 and A1-03, 32 d/ span	32	32	14-Feb-25	22-Mar-25	18-Jun-24	25-Jul-24	-188	0%									
BWF-1040-4	Long. Stitch (Bridge A1)- 1 span, between A1-03 and A1-02, 14 d/ span	14	14	07-Jan-25	22-Jan-25	02-Aug-24	17-Aug-24	-140	0%									
Bridge A2																		
Construction of Bridge A2 Deck																		
Form Traveller and Segment Erection Works																		
BWBD-1040	Bridge A2 by Form Traveler - Stage 4 (at Pier A2-05) plus key segment, Team A	76	76	31-Dec-24	02-Apr-25	27-Sep-24	28-Dec-24	-125	0%									
BWBD-1042	Bridge A2 by Form Traveler - Stage 3 (at Pier A2-03) plus key segment, Team A	110	43	20-Jul-24 A	30-Dec-24	18-May-24	26-Sep-24	-125	60.91%									
BWBD-1140-1	Post tensioning slab tendons between A2-04 and A2-03 (start after T span A2-03 completed & achieve concrete strength)	32	32	31-Dec-24	10-Feb-25	27-Sep-24	05-Nov-24	-107	0%									
BWBD-1140-2	Post tensioning slab tendons between A2-03 and A2-02 (including achieve concrete strength)	6	6	11-Feb-25	17-Feb-25	06-Nov-24	12-Nov-24	-81	0%									
Bridge A2 (Stitching and Parapet)																		
BWF-1040-1a1	Long. Stitch (Bridge A2)- Between A2-04 and A2-03, 14 d/ span (after FT works)	14	14	11-Feb-25	26-Feb-25	06-Nov-24	21-Nov-24	-107	0%									
BWF-1040-1a13	Parapet Between A2-04 and A2-03, 32 d/ span	32	32	27-Feb-25	05-Apr-25	22-Nov-24	31-Dec-24	-107	0%									
BWF-1040-1a2	Long. Stitch (Bridge A2)- Between A2-03 and A2-02, 14 d/ span (after FT works)	14	14	27-Feb-25	14-Mar-25	22-Nov-24	07-Dec-24	-89	0%									
Bridge A3																		
Construction of Bridge A3 Deck																		
Form Traveller and Segment Erection Works and Cast insitu Decking																		
BWBD-2100	Bridge A3 by Form Traveler Stage 6 (at Pier A3-01) plus key segment, Team B	105	82	23-Oct-24 A	18-Feb-25	07-Jun-24	12-Oct-24	-124	22%									
BWBD-2120	Bridge A3 by Form Traveler Stage 7 (at Pier A3-03) plus key segment, Team B	105	42	05-Sep-24 A	09-Apr-25	14-Oct-24	19-Feb-25	-124	60%									
Bridge G																		
Pile cap of Bridge G Foundation																		
BWBC-4000	Pile cap for G-01 (2nos. pile cap, 30d/cap, 1no. workfront)	0	0	08-Nov-24	08-Nov-24	13-Oct-23	22-Dec-23	-230	0%									
BWBC-4020	Pile cap for G-03 (1no. pile cap, 30d/cap, 1no. workfront)	0	0	08-Nov-24	08-Nov-24	12-Jan-24	20-Feb-24	-140	0%									
BWBC-4040	Pile cap for G-05 (1no. pile cap, 30d/cap, 1no. workfront)	0	0	08-Nov-24	08-Nov-24	08-Mar-24	17-Apr-24	-93	0%									
Construction of Bridge G Substructure																		
BWBS-1160	Pier G-01a/b (2nos. column, 30d/column, 1no. workfront)	60	60	08-Nov-24	20-Jan-25	23-Dec-23	08-Mar-24	-230	0%									
BWBS-1200	Pier G-02 (1no. column, 30d/column, 1no. workfront)	30	30	21-Jan-25	27-Feb-25	09-Mar-24	17-Apr-24	-230	0%									
BWBS-1230	Pier G-03 (1no. column, 30d/column, 1no. workfront)	30	30	28-Feb-25	03-Apr-25	18-Apr-24	24-May-24	-230	0%									
BWBS-1270	Pier G-05 (1no. column, 30d/column, 1no. workfront)	30	30	08-Nov-24	12-Dec-24	06-May-24	12-Jun-24	-93	0%									

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BWBS-1280	Abt G-06 (1no. abutment, 60d/abutment,1no. workfront)	60	60	13-Dec-24	27-Feb-25	29-Jun-24	09-Sep-24	-93	0%									
Construction of Bridge G Deck																		
BWBD-1110d	Bridge G (G-05 to G-06)-Falsework	21	21	28-Feb-25	24-Mar-25	09-Sep-24	05-Oct-24	-93	0%									
Construction of Bridge Furniture																		
Other Bridge Deck Works																		
BWF-108	Procurement of Installation of traffic detection system and TCSS items (KD5)	180	104	09-Aug-24 A	15-Mar-25	29-Nov-23	11-Jul-24	-26	42.22%									
BWF-1100	Preservation and Protection (S8)	90	90	16-Nov-24	07-Mar-25	19-Mar-25	10-Jul-25	110	0%									
BWF-1120	Landscape works(S9)	90	90	16-Nov-24	07-Mar-25	19-Mar-25	10-Jul-25	110	0%									
BWF-1140a1-2	Ducting, cabling and pillar for lighting of deck void (by CLP)	60	60	20-Feb-25	07-May-25	13-Dec-24	27-Feb-25	56	0%									
BWF-1140a2-3	Ducting, cabling and pillar for lighting of bridge deck (by CLP)	60	60	20-Feb-25	07-May-25	13-Dec-24	27-Feb-25	56	0%									
Footbridge F4																		
Design and Fabrication (Steel Footbridge F4 and Lighting)																		
BWBF-136-3a	Approval of Lighting design(Civil requirement,Pillar box arrangement,Electrical Design,lighting&earthing,Lux simulation)	90	10	08-Mar-24 A	19-Nov-24	02-Feb-24	27-May-24	-31	88.89%									
BWBF-136-3b	Lighting - Procurement	150	150	20-Nov-24	27-May-25	28-May-24	23-Nov-24	-31	0%									
Construction of Footbridge F4 Substructure																		
BWBS-1180	Footbridge F4-01 (1no. abutment, 60d/abutment,1no. workfront)	60	60	08-Nov-24	20-Jan-25	09-Feb-24	26-Apr-24	-147	0%									
BWBS-1240	Footbridge F4-02 (1no. abutment, 60d/abutment,1no. workfront)	60	60	21-Jan-25	03-Apr-25	27-Apr-24	10-Jul-24	-147	0%									
Footbridge F6 Cum Cycle Track																		
Design, Procurement and Fabrication (S960 Footbridge F6 and Lift)																		
INTS2-1450-0	Fabrication and delivery of steel element and canopy for Footbridge F6	99	50	29-Jun-24 A	08-Jan-25	29-Sep-23	29-Jan-24	-255	49.49%									
INTS2-1450-1b	Fabrication for lift	165	30	01-Nov-23 A	12-Dec-24	01-Nov-23	24-May-24	-157	81.82%									
INTS2-1450-2a	Procurement of lighting items and E&M items	144	118	08-Oct-24 A	01-Apr-25	30-Oct-23	25-Apr-24	-197	18.06%									
Lift Tower and Footbridge F6 (Portion J)																		
EM/BS/ABWF of Footbridge F6																		
INTS2-1450a	Preassembly the steel element for installation according to method statement and lifting plan	30	30	09-Jan-25	15-Feb-25	30-Jan-24	07-Mar-24	-255	0%									
Part A (Cable D)																		
INTS2-1320	F6 pile cap and pier (Part A)- 1 pile cap (P01), pile cap (abutment) and 1 pier (P01)	52	18	10-Nov-23 A	28-Nov-24	20-Dec-23	24-Feb-24	-187	65.38%									
INTS2-1330	F6 Falsework Erection (Part A)	14	14	29-Nov-24	14-Dec-24	26-Feb-24	12-Mar-24	-187	0%									

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INTS2-1360	F6 elevated structure (Part A) C01 to P01(KD3)- Install prefabricated MDP01, TM(P01-C01)	60	60	17-Feb-25	02-May-25	13-Mar-24	28-May-24	-204	0%								
INTS2-3000d	Bearing Installation	14	14	08-Nov-24	23-Nov-24	24-Apr-24	10-May-24	-169	0%								
INTS2-3010	F6 elevation structure (C01 to C02) (KD3)- Install prefabricated BDC01-1, BDC01-2 & MDC02, TM(C01-C02)	48	48	17-Feb-25	14-Apr-25	11-May-24	09-Jul-24	-235	0%								
Part B (Some part After Cable D)																	
INTS2-1100a	Pier (P07, P08, C03), 1WF, Stage 2	43	3	28-Aug-24 A	11-Nov-24	08-Mar-24	02-May-24	-165	93.02%								
INTS2-1100b	Construction of Footbridge F6 Pier P03 on top of Underpass Combined Bay C10-C11 (Part C)- RC beam	14	14	11-Dec-24	28-Dec-24	29-Apr-24	16-May-24	-234	0%								
INTS2-1100c	Footbridge F6 Pier P03 on top of Underpass Combined Bay C10-C11 (Part C)- Cast insitu column	30	30	30-Dec-24	06-Feb-25	17-May-24	21-Jun-24	-234	0%								
INTS2-1100d	Footbridge F6 Pier P03 on top of Underpass Combined Bay C10-C11 (Part C)- Precast column (Study in progress)	12	12	30-Dec-24	13-Jan-25	17-May-24	30-May-24	-216	0%								
INTS2-1340	Falsework Erection for Footbridge F6 (Part B1)	30	30	07-Feb-25	13-Mar-25	22-Jun-24	27-Jul-24	-234	0%								
INTS2-1340a	Bearing Installation	14	14	12-Nov-24	27-Nov-24	03-May-24	20-May-24	-149	0%								
INTS2-1390a	Falsework Erection for Footbridge F6 (Part B2)	30	30	12-Nov-24	16-Dec-24	03-May-24	07-Jun-24	-160	0%								
INTS2-1390b	F6 part elevated structure (B2)- Stage 2 (S11)- Install MDP08, BDC03, TM(P08-C03), TM(P07-P08)	48	48	17-Feb-25	14-Apr-25	08-Jun-24	05-Aug-24	-188	0%								
Lift and Stairway																	
INTS2-1350	F6 Part B lift pile cap	20	20	17-Dec-24	11-Jan-25	08-Jun-24	03-Jul-24	-160	0%								
INTS2-1350a	F6 Part B lift structure (Part 1)	60	60	13-Jan-25	26-Mar-25	04-Jul-24	11-Sep-24	-160	0%								
Part C																	
INTS2-1230	Construction of Footbridge F6 Pier P04 on top of Underpass Combined Bay C10-C11 (Part C)- RC beam	14	14	11-Dec-24	28-Dec-24	29-Apr-24	16-May-24	-229	0%								
INTS2-1230a	Footbridge F6 Pier P04 on top of Underpass Combined Bay C10-C11 (Part C)- Cast insitu column	30	30	30-Dec-24	06-Feb-25	17-May-24	21-Jun-24	-229	0%								
INTS2-1230b	Footbridge F6 Pier P04 on top of Underpass Combined Bay C10-C11 (Part C)- Precast column (Study in progress)	12	12	30-Dec-24	13-Jan-25	17-May-24	30-May-24	-211	0%								
INTS2-1250	Falsework Erection for Footbridge F6 (Part C)	30	30	07-Feb-25	13-Mar-25	22-Jun-24	27-Jul-24	-229	0%								
INTS2-1250-1	Bearing Installation	14	14	08-Nov-24	23-Nov-24	24-Apr-24	10-May-24	-141	0%								
Part D																	
INTS2-1380	Falsework Erection for Footbridge F6 (Part D)	20	20	08-Nov-24	30-Nov-24	17-Apr-24	10-May-24	-195	0%								
INTS2-1380-1	Bearing Installation	14	14	08-Nov-24	23-Nov-24	24-Apr-24	10-May-24	-189	0%								
INTS2-1380a	Footbridge F6 elevated structure (Part D) (KD3) install MDP06, BDC05, TM(P06-C05), TM(P06-P001)	48	48	17-Feb-25	14-Apr-25	11-May-24	09-Jul-24	-255	0%								
Depressed Road A																	
Depressed Rd A Bay 1-10																	
UTRA-1007	Structure (8-12) including all wall construction and backfill, removal of strut	88	14	01-Feb-24 A	23-Nov-24	18-Jan-24	08-May-24	-80	84.09%								

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Road Works																				
Connection road btw Bridge A3 and Depressed Road A																				
UTRA-3001	Backfilling at Road section between Depressed Rd A and Bridge A3 (Southbound-near Ma Wut river)	26	26	11-Dec-24	13-Jan-25	03-Apr-24	04-May-24	-43	0%											
UTRA-3001-1	UUs at Road section between Depressed Rd A and Bridge A3 (Southbound-near Ma Wut river)	78	78	14-Jan-25	22-Apr-25	06-May-24	07-Aug-24	-43	0%											
UTRA-3002	Backfilling at Road section between Depressed Rd A and Bridge A3 (Northbound-near C7)	26	26	17-Feb-25	18-Mar-25	25-Nov-24	24-Dec-24	-94	0%											
Underpass at Portions H, J, K																				
Underpass - ELS Works																				
ELSW for Underpass Bays 9 - 11																				
INTS2-4160a	Waterproofing (Base slab and wall)	3	3	08-Nov-24	11-Nov-24	05-Jan-24	08-Jan-24	-234	0%											
Underpass - Structural Works																				
Underpass Bays C1 to C8 at Portion H																				
Underpass - Waterproofing and Backfilling																				
INTS1-1300-1	Waterproofing to Structure Works for Bay C1 to C4	12	12	08-Nov-24	21-Nov-24	08-Dec-23	21-Dec-23	-247	0%											
INTS1-1300-2	Backfilling to Structure Works for Bay C1 to C4	30	30	22-Nov-24	28-Dec-24	22-Dec-23	29-Jan-24	-247	0%											
Underpass - Bays C9 - C15 at Portions H, J and K																				
Underpass C9-C11 Structure (assume hanging UUs and concurrent with UUs diversion)																				
INTS2-3100b	Combined Bay C10 & C11 - Roof Slab	30	10	11-Sep-24 A	22-Nov-24	02-Mar-24	10-Apr-24	-234	66.67%											
INTS2-3100c	Waterproofing (Roof)	15	15	23-Nov-24	10-Dec-24	11-Apr-24	27-Apr-24	-234	0%											
INTS2-3150c	Waterproofing (Roof)	3	3	26-Nov-24	28-Nov-24	25-Apr-24	27-Apr-24	-224	0%											
Underpass C9-C11 (Road & Drainage Works)																				
INTS2-1180	Road and Drainage Works above Bay C9 to C11	49	49	14-Jan-25	14-Mar-25	31-May-24	29-Jul-24	-223	0%											
INTS2-1220	Backfilling Works on Sha Tak Kok Rd Northbound above Bay C9/C11	26	26	11-Dec-24	13-Jan-25	29-Apr-24	30-May-24	-223	0%											
Underpass C12-C13 Structure (assume hanging UUs and concurrent with UUs diversion)																				
INTS2-3130b	Bay C13 - Roof Slab	22	22	08-Nov-24	03-Dec-24	15-Mar-24	13-Apr-24	-220	0%											
INTS2-3140b	Bay C12 - Roof Slab	22	22	30-Sep-24 A	03-Dec-24	12-Apr-24	08-May-24	-220	0%											
INTS2-3140c	Waterproofing (Roof)	3	3	04-Dec-24	06-Dec-24	09-May-24	11-May-24	-220	0%											
Underpass C12-C13 (Road & Drainage Works)																				
INTS2-1280	Road and Drainage Works on STK Rd southbound above Underpass Bay 12 and 13	49	49	10-Jan-25	11-Mar-25	14-Jun-24	10-Aug-24	-220	0%											

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INTS2-1430	Backfill for road & drainage works after C12 to C13	26	26	07-Dec-24	09-Jan-25	13-May-24	13-Jun-24	-220	0%								
Underpass C14-C15																	
INTS2-1090(2	Structure Works for Bay C15- Roof	22	22	08-Nov-24	03-Dec-24	02-Apr-24	27-Apr-24	-200	0%								
INTS2-1090-1	Structure Works for Bay C14- Roof	22	22	08-Nov-24	03-Dec-24	07-May-24	01-Jun-24	-200	0%								
INTS2-1090-2	Waterproofing (Wall and Roof) at underpass Bay 14-15	15	15	04-Dec-24	20-Dec-24	03-Jun-24	20-Jun-24	-200	0%								
INTS2-1090a	Backfilling to structure Works for Bay C14 to C15	13	13	21-Dec-24	08-Jan-25	21-Jun-24	06-Jul-24	-200	0%								
INTS2-1090a1	Removal of sheetpile at Bay C14 to C15	18	18	09-Jan-25	01-Feb-25	08-Jul-24	27-Jul-24	-200	0%								
INTS2-1090a2	Backfilling to future ground level above Bay C14 to C15	18	18	03-Feb-25	22-Feb-25	29-Jul-24	17-Aug-24	-200	0%								
BS, E&M Works and Remaining Road Works in Underpass and Depressed Roads																	
INTS3-101	Lighting, E&M and BS Procurement	200	40	08-Dec-23 A	24-Dec-24	08-Dec-23	13-Aug-24	-123	80%								
INTS3-101-1	E&M works factory acceptance test	14	14	27-Dec-24	13-Jan-25	14-Aug-24	29-Aug-24	-123	0%								
INTS3-101-2	Lighting, E&M works delivery	7	7	14-Jan-25	21-Jan-25	30-Aug-24	06-Sep-24	-123	0%								
INTS3-1010	Remaining Works at Underpass/ Depressed Road (E&M, signage, road & drainage works)- Stage 1	80	80	22-Jan-25	03-May-25	07-Sep-24	12-Dec-24	-123	0%								
Depressed Road B																	
B4-B10																	
UTR-1130	Construction of U-trough B (7 bays, 15m/bay, 30d/bay, 2 workfronts)	105	18	27-Jun-24 A	01-Feb-25	17-Apr-24	21-Aug-24	-155	82.86%								
UTR-3160	Backfilling space between sheetpile and U-trough B	30	30	03-Feb-25	08-Mar-25	22-Aug-24	26-Sep-24	-155	0%								
Remaining Works at Depressed road and Slip Road at both side of Depressed Road B																	
UTR-3120a	Installation of Noise barrier NB35 BS and E&M works (~12 nos post)	60	60	03-Feb-25	14-Apr-25	22-Aug-24	02-Nov-24	25	0%								
UTR-3130	Installation of Noise barrier SE11 (after Depressed Road B) (~34 nos. x 3 post and 34 nos x 2 beam)	90	90	03-Feb-25	24-May-25	22-Aug-24	07-Dec-24	-91	0%								
Slip Road from Interchange to Fanling Highway																	
UTR-3100a	Retaining Wall FW9 (13 bays, 15d/bay, 2 teams)-Part 2	48	14	07-Sep-24 A	30-Nov-24	18-Nov-23	17-Jan-24	-254	70.83%								
UTR-3110	UU works along FW9 (including backfilling, drainage, watermain along slip road)-Part 1	45	45	02-Dec-24	25-Jan-25	17-Jan-24	13-Mar-24	-254	0%								
UTR-3110a	UU works along FW9 (including backfilling, drainage, watermain along slip road)-Part 2	45	45	27-Jan-25	22-Mar-25	13-Mar-24	10-May-24	-254	0%								
Slip Road from Fanling Highway to Interchange																	
UTR-3010	FW-10(~75m, ~10bay, 15d/bay, 2 team) (after 11kV, town gas and other UUs)-Bay 1-5 & 8-10	60	60	08-Nov-24	20-Jan-25	14-Nov-23	25-Jan-24	-304	0%								
UTR-3010a	FW-10(~75m, ~10bay, 15d/bay, 2 team) (after 11kV, town gas and other UUs)-Bay 6 & 7	30	30	04-Feb-25	10-Mar-25	16-Feb-24	21-Mar-24	-298	0%								
UTR-3030	Footing of noise barrier NB34 (6 bays, 15d/bay, 2 team)	45	45	21-Jan-25	17-Mar-25	26-Jan-24	21-Mar-24	-304	0%								

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UTR-3030a	Construct footing of NB33a/b (4 bays, 15d/bay, 2 team)	30	30	28-Feb-25	03-Apr-25	19-Aug-24	23-Sep-24	-204	0%								
Underground Utilities (UUs) Works																	
Drainage Works																	
North of Sha Tau Kok Road																	
Stomwater 900mm dia																	
INTS1-1130a	Excavation for 900 stormwater pipe near On Kui St (undemeath CLP132 Ping Che joint bay)	20	7	06-Sep-24 A	15-Nov-24	06-Nov-23	28-Nov-23	-298	65%								
INTS1-1130a2	Install 900 stormwater pipe near On Kui St (undemeath CLP132 Ping Che joint bay)	62	62	16-Nov-24	03-Feb-25	29-Nov-23	15-Feb-24	-298	0%								
South of Sha Tau Kok Road																	
INTS1-1320	Retaining Wall FW32 and 33 (141m, 20 bays, 15d/bay, 2 teams) and stormwater drain-Part 1 (10 bays)	75	75	28-Feb-25	03-Jun-25	11-Apr-24	11-Jul-24	-181	0%								
Along Sha Tau Road																	
INTS2-1040	UU Works (drainage) - Northbound of Sha Tau Kok Road (after TTA2)-Part 1	60	60	15-Nov-24	27-Jan-25	27-Dec-23	09-Mar-24	-272	0%								
INTS2-1040a	UU Works (drainage)- Northbound of Sha Tau Kok Road (after TTA2)-Part 2	60	60	28-Jan-25	11-Apr-25	11-Mar-24	25-May-24	-272	0%								
Rising Main																	
From Sewerage Pumping Station to downstream via Ma Sik Road and On Kui Street																	
INTS1-1120b	Rising Mains on Ma Sik Rd (Part 3- within Portion N- in/out sewerage pumping station)	70	70	04-Dec-24	01-Mar-25	22-Mar-24	19-Jun-24	-189	0%								
From Sha Tau Kok Road to downstream via Ma Sik Road																	
INTS1-1120b2	Rising Mains on Ma Sik Rd (From STK Rd to Ma Sik Rd down stream near C7) (Above Underpass 10 and 11)	26	26	11-Dec-24	13-Jan-25	29-Apr-24	30-May-24	-200	0%								
Sewerage Works																	
North of Sha Tau Kok Road																	
INTS1-1140a	Remaining sewerage at Ma Sik rd (Part 2) Ma Sik Road (from C7 to Sewerage pumping Station) (North of STK Rd)	48	48	04-Dec-24	04-Feb-25	17-Jun-24	12-Aug-24	-167	0%								
South of Sha Tau Kok Road																	
INTS1-1300a4	Sewerage pipe between FMH 5.10 and FMH1004470 (including TTA and excavation)	30	30	08-Nov-24	12-Dec-24	16-Dec-23	23-Jan-24	-204	0%								
INTS1-1300a4	Sewerage pipe between FMH 5.10 and FMH1004470 (including TTA and excavation)	30	30	13-Dec-24	20-Jan-25	24-Jan-24	01-Mar-24	-204	0%								
INTS1-1300d	Testing of new pipe and demolition of existing sewerage works (Portion K, Portion K1 and STK Rd)	30	30	21-Jan-25	27-Feb-25	02-Mar-24	10-Apr-24	-204	0%								
Waterworks																	
INTS1-1220b	Watermain (from STK Rd to connection point at On Kui ST) (Part 3) - 600DI and final connection	15	15	09-May-24 A	25-Nov-24	25-Nov-23	12-Dec-23	-224	0%								
Existing UU Diversion																	
CLP																	

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										Oct	Nov	Dec	Jan	Feb	Mar	Apr	May			
CLP 132kV and 11kV Cable Works at Bridge and interchange area																				
CLP-1040	ESS by CLP at portion I	0	0		15-Nov-24*		30-Dec-23	-260	0%		◆									
Cable D (Blue) Fanling- Ping Che Circuit 132KV- by CLP (Bridge A3 and Interchange Area)																				
CLP-4030	Abandon of Cable D (At portion H,I,J,N)	38	38	16-Nov-24	02-Jan-25	02-Jan-24	17-Feb-24	-207	0%			■								
Telecom (by Others)																				
HGC/HKBN/HKBNE SHK/PCCW																				
TL-1030	HGC/HKBN/HKBNES/PCCW diversion -stage 4 (near Portion M)	31	20	01-Mar-24 A	30-Nov-24	06-Sep-23	13-Oct-23	-254	35.48%	■	■									
TL-1040	PCCW diversion-stage 5 (near the toilet and RCP)	23	10	01-Mar-24 A	19-Nov-24	06-Sep-23	04-Oct-23	-175	56.52%	■	■									
TL-1060	Abandon of existing cables of UUs	30	30	02-Dec-24	08-Jan-25	14-Oct-23	18-Nov-23	-155	0%			■								
Towngas/telecom																				
TL-3010	HGC/HKBN/HKBNES diversion -stage 2 (after TTA)	49	20	08-Mar-24 A	30-Nov-24	01-Aug-23	22-Sep-23	-155	59.18%	■	■									
Stormwater Pumping Station (SWPS)																				
Statutory Submission and Design																				
INTS3-103	FS design (Stormwater pumping station)	268	14	08-May-23 A	23-Nov-24	08-May-23	02-May-24	-110	94.78%	■	■									
INTS3-103-1	Submersible pump design (Stormwater pumping station)	268	14	08-May-23 A	23-Nov-24	08-May-23	02-May-24	-110	94.78%	■	■									
INTS3-103-2	Scada design (Stormwater pumping station)	268	14	08-May-23 A	23-Nov-24	08-May-23	02-May-24	-110	94.78%	■	■									
INTS3-103-3	Submission and Approval of DDA to DSD (Stormwater pumping station)	152	152	25-Nov-24	04-Jun-25	03-May-24	02-Nov-24	-110	0%	■		■	■	■	■	■	■	■		
INTS3-2000	Submission and approval of WWO 542	269	70	09-Apr-24 A	16-Jan-25	17-Nov-23	11-Aug-24	-118	73.98%	■	■									
INTS3-2010	Mega Link application	266	266	17-Jan-25	09-Oct-25	12-Aug-24	04-May-25	-118	0%	■		■	■	■	■	■	■	■		
INTS3-2020	Direct Link application	266	266	17-Jan-25	09-Oct-25	12-Aug-24	04-May-25	-118	0%	■		■	■	■	■	■	■	■		
Stormwater Pumping Station (after TTA Stage 3) (Portion H)																				
INTS3-1040	Underground wall, subway and remaining Structure Construction from +3.70mPD to Roof Slab	114	40	10-Apr-24 A	03-Jan-26	31-Dec-24	23-May-25	-286	64.91%	■	■		■	■	■	■	■	■		
INTS3-1091	E&M, BS and ABWF Procurement	210	134	08-Aug-24 A	24-Apr-25	13-Mar-24	25-Nov-24	-106	36.19%	■	■		■	■	■	■	■	■		
Sewage Pumping Station (SEWPS)																				
Statutory Submission and Design																				
SPS-103	Submission and approval of DDA to DSD	152	52	30-Oct-23 A	29-Dec-24	30-Oct-23	29-Mar-24	-268	65.79%	■	■									
SPS-106	Mega Link Application	180	80	29-Nov-23 A	26-Jan-25	29-Nov-23	26-May-24	-198	55.56%	■	■		■	■	■	■	■	■		
SPS-107	Direct Link Application	180	80	29-Nov-23 A	26-Jan-25	29-Nov-23	26-May-24	-198	55.56%	■	■		■	■	■	■	■	■		

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										Oct	Nov	Dec	Jan	Feb	Mar	Apr	May			
Sewage Pumping Station in Portion N (After TTA2 Northbound)																				
Structural Works																				
SPS-1030d1	Construct Base Slab plus kicker (Valve chamber) and remove L1 strut	14	6	05-Jul-24 A	14-Nov-24	08-Feb-24	27-Feb-24	-254	57.14%											
SPS-1030d2	Construct Wall (Inlet chamber and wet well) up to +7.35 and removal L1 strut	14	10	02-Sep-24 A	19-Nov-24	08-Feb-24	27-Feb-24	-258	28.57%											
SPS-1030e	Construct Wall (valve chamber, inlet chamber and wet well) to GL	20	12	02-Sep-24 A	03-Dec-24	28-Feb-24	21-Mar-24	-258	40%											
SPS-1030h	Construct GL slab (valve chamber, inlet chamber and wet well)	20	20	04-Dec-24	28-Dec-24	22-Mar-24	18-Apr-24	-258	0%											
SPS-1030i	Construct wall to roof	14	14	30-Dec-24	15-Jan-25	19-Apr-24	06-May-24	-258	0%											
SPS-1030j	Construct Roof Slab (incl. Erect Falsework and Formworks) and external stairway	24	24	16-Jan-25	15-Feb-25	07-May-24	04-Jun-24	-258	0%											
SPS-1030k	Roof Slab Waterproofing	14	14	17-Feb-25	04-Mar-25	05-Jun-24	21-Jun-24	-198	0%											
Transformer Room, Switch Room																				
Tx and Switch Rooms - Structures																				
SPS-1020-03	Construct Roof Slab (Erect falsework, scaffolding, formworks, Rebars and Concreting)	26	7	09-Aug-24 A	15-Nov-24	18-Jan-24	20-Feb-24	-249	73.08%											
SPS-1020-03	Allow time to achieve concrete strength before falseworks removal	20	20	16-Nov-24	09-Dec-24	21-Feb-24	15-Mar-24	-249	0%											
SPS-1020-04	Remove Falsework, Formworks, Cleaning + Waterproofing of Roof Slab (removal of FWK 14 days after casting)	14	14	10-Dec-24	27-Dec-24	16-Mar-24	05-Apr-24	-249	0%											
Tx and Switch Rooms - ABWF, E&M Works																				
SPS-1035-01	Tx and Switch Room - ABWF Works	30	30	28-Dec-24	05-Feb-25	06-Apr-24	11-May-24	-249	0%											
SPS-1035-02	Tx and Switch Room - E&M Works	30	30	28-Dec-24	05-Feb-25	06-Apr-24	11-May-24	-249	0%											
SPS-1035-03	Inspection and Defects Rectification	7	7	06-Feb-25	13-Feb-25	13-May-24	21-May-24	-249	0%											
SPS-1035-04	Handover to CLP for Transformer Installation	0	0		13-Feb-25		21-May-24	-249	0%											
SPS-1035-05	CLP works (3 months duration)	73	73	14-Feb-25	16-May-25	22-May-24	16-Aug-24	-249	0%											
ABWF and E&M Works (Remaining Parts of Sewage PS)																				
SPS-1035	E&M, BS and ABWF Procurement	227	6	07-Nov-22 A	14-Nov-24	07-Nov-22	08-Feb-24	-212	97.36%											
SPS-1036	E&M works Factory acceptance test	14	14	15-Nov-24	30-Nov-24	09-Feb-24	28-Feb-24	-212	0%											
SPS-1037	E&M works delivery	14	14	02-Dec-24	17-Dec-24	29-Feb-24	15-Mar-24	-212	0%											
SPS-1040	E&M, BS and ABWF Installation (KD2)- Stage 1	25	25	17-Feb-25	17-Mar-25	05-Jun-24	05-Jul-24	-258	0%											
Reprovision of On Luk Mun Street Playground (S3)																				
Works in Portion K1																				
Permanent Access between Wholesale Market and STK Road																				

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										Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	
OLMSP-500a	Construction of remaining permanent access & EVA, water main, UUs & direct link (under D204 road)	30	6	08-Dec-22 A	14-Nov-24	08-Dec-22	20-Oct-23	-346	80%									
OLMSP-500b	Dismantle existing water main supply to wholesale market (for subsequent construction of Depressed Rd B - Bay 4-10)	30	30	15-Nov-24	19-Dec-24	21-Oct-23	25-Nov-23	-141	0%									
Public Area																		
OLMSP-600a	Construction of fence wall (Part 2)	7	3	09-Jan-24 A	11-Nov-24	06-Sep-23	13-Sep-23	-372	57.14%									
OLMSP-620	Backfilling works	10	10	12-Nov-24	22-Nov-24	01-Nov-23	11-Nov-23	-372	0%									
OLMSP-630	U channel and catchpit	21	21	23-Nov-24	17-Dec-24	13-Nov-23	06-Dec-23	-372	0%									
OLMSP-640	Staircase	21	21	23-Nov-24	17-Dec-24	13-Nov-23	06-Dec-23	-372	0%									
OLMSP-650	Granite tiling	21	21	23-Nov-24	17-Dec-24	13-Nov-23	06-Dec-23	-372	0%									
OLMSP-670	Builder works (Gate, railing, footpath, arbour, signage etc)	21	21	23-Nov-24	17-Dec-24	13-Nov-23	06-Dec-23	-372	0%									
New Skateboard Park																		
Construction of Skateboard Park (by California)																		
OLMSP-1010	Install steps	8	7	09-Jul-24 A	15-Nov-24	24-Oct-23	02-Nov-23	-364	12.5%									
OLMSP-1010	Install transition and banks	14	6	09-Jul-24 A	14-Nov-24	02-Nov-23	23-Nov-23	-364	57.14%									
OLMSP-1010	Install flat works	12	12	15-Nov-24	28-Nov-24	23-Nov-23	07-Dec-23	-364	0%									
OLMSP-1010	All other remaining works (inspection and rectify defect)	6	6	29-Nov-24	05-Dec-24	07-Dec-23	14-Dec-23	-364	0%									
OLMSP-1010	BS works (lighting installation by Kum Shing)	15	3	14-Dec-23 A	14-Nov-24	28-Nov-23	14-Dec-23	-346	80%									
Landscape Area																		
OLMSP-102.1	Construction of concrete access	27	18	20-Jul-24 A	28-Nov-24	01-Nov-23	01-Dec-23	-364	33.33%									
OLMSP-102.2	Irrigation works	27	9	09-Jul-24 A	18-Nov-24	01-Nov-23	01-Dec-23	-358	66.67%									
OLMSP-1020	Landscaping Softworks with acceptance by clients (S3)	11	11	19-Nov-24	30-Nov-24	02-Dec-23	14-Dec-23	-358	0%									
OLMSP-1020	Establishment works	365	365	01-Dec-24	30-Nov-25	15-Dec-23	13-Dec-24	-440	0%									
OLMSP-103	Lamp post fooring, drawpit and ducting for lamp post	28	14	08-Aug-24 A	23-Nov-24	01-Nov-23	02-Dec-23	-360	50%									
OLMSP-1030	BS works (lighting installation by Kum Shing)	10	6	09-Jul-24 A	05-Dec-24	04-Dec-23	14-Dec-23	-364	40%									
Testing & Commissioning																		
OLMSP-1260	T&C (S3)	39	2	06-May-24 A	07-Dec-24	15-Dec-23	01-Feb-24	-364	94.87%									
OLMSP-1260-2	Submission of Form 501	14	10	08-May-24 A	19-Nov-24	11-Oct-23	27-Oct-23	-348	28.57%									
OLMSP-2550	Achieved Completion of Skateboard Park under Section 3 (S3) - complete all works within Portion K1 incl. LS works	0	0		07-Dec-24		01-Feb-24	-364	0%									
Works in Portion P																		

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										Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
OLMSP-1050a	Retaining Wall FW10 (around 75m, 10 bays, 15d/bay, 2 team) and other facilities-Part 2	38	38	08-Nov-24	21-Dec-24	13-Dec-23	29-Jan-24	-283	0%								
OLMSP-1100	Backfilling work to Retaining Wall FW10 & remaining area (between abutment (by Contract C5) and Depressed road B)	60	60	23-Dec-24	08-Mar-25	30-Jan-24	16-Apr-24	-283	0%								
Temporary Skateboard Park Scheme																	
OLMSP-2580	Reinstatement of area of mini Skateboard Park for subsequent works	30	30	08-Nov-24	12-Dec-24	14-Dec-23	20-Jan-24	-44	0%								
Reprovision of Public Toilet and Refuse Collection Point (S6)																	
Ptrcp-100-71	Procurement of builder works and E&M items	79	12	08-May-24 A	21-Nov-24	18-Dec-23	25-Mar-24	-177	84.81%								
Ptrcp-1000	Prefabrication of Mic Unit	45	30	08-Aug-24 A	12-Dec-24	30-Jan-24	25-Mar-24	-195	33.33%								
Ptrcp-1030	On-site installation (Public Toilet and RCP)	12	12	13-Dec-24	28-Dec-24	26-Mar-24	12-Apr-24	-195	0%								
Ptrcp-1040	Waterproofing and other remaining works UUs, drainage	30	30	30-Dec-24	06-Feb-25	13-Apr-24	20-May-24	-195	0%								
Ptrcp-2010	ABWF for Public Toilet and RCP	36	36	07-Feb-25	20-Mar-25	21-May-24	03-Jul-24	-195	0%								
Ptrcp-2020	EM & BS for Public Toilet and RCP	36	36	07-Feb-25	20-Mar-25	21-May-24	03-Jul-24	-195	0%								
Retaining Walls (FWs)																	
FW14, FW16, FW24, FW27, FW18 (at Portion C)																	
BWFW-17000	New feature FW14 L-Shape Retaining wall~34m (near Bridge F)	70	70	08-Nov-24	04-Feb-25	27-Mar-24	24-Jun-24	-49	0%								
BWFW-17010	New feature FW16 L-Shape Retaining wall~34m (near Bridge F)	90	90	06-Jan-25	28-Apr-25	28-Sep-24	16-Jan-25	12	0%								
BWFW-17020	New feature FW24 L-Shape Retaining wall~110m (near Bridge F)	90	9	08-Jul-24 A	14-Feb-25	25-Jun-24	10-Oct-24	-49	90%								
BWFW-17040	New feature FW27 L-Shape Retaining wall~70m (near Bridge F)	53	44	10-Aug-24 A	08-Apr-25	12-Oct-24	12-Dec-24	-49	16.98%								
FW29, FW,25, FW34 (Bet. Bridge Pier A3-06 and Depressed Road A at Portions C and F)																	
Structural Works																	
UTRA-2001	Retaining wall FW25 (28 bays)	135	3	18-Oct-23 A	11-Nov-24	15-Sep-23	29-Feb-24	-94	97.78%								
UTRA-2002	Remaining retaining wall FW34	25	25	12-Nov-24	10-Dec-24	01-Mar-24	02-Apr-24	-94	0%								
UTRA-2003	Retaining wall FW29 (22 bays)	135	22	09-Jan-24 A	08-Jan-25	09-May-24	19-Oct-24	-94	83.7%								
UTRA-2004	Noise barrier NB23	30	30	09-Jan-25	15-Feb-25	21-Oct-24	23-Nov-24	-94	0%								
FW07, FW08 (at Depressed Road A and Underpass - Portion H)																	
UTRA-2006	Retaining Wall FW8	77	77	17-Feb-25	23-May-25	25-Nov-24	28-Feb-25	-93	0%								
UTRA-2007	Retaining Wall FW7	77	77	17-Feb-25	23-May-25	25-Nov-24	28-Feb-25	-94	0%								
Noise Barriers (NB) and Semi-Enclosure (SE)																	
Noise Barrier FLN-SE22 and FLN-SE21 (Portion J)																	

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										Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
INTS2-2000a	Submission and approval of Design for noise enclosure	35	6	11-Jun-24 A	14-Nov-24	08-Sep-23	13-Nov-23	-285	82.86%								
INTS2-2000b	Fabrication of noise enclosure material	100	100	15-Nov-24	18-Mar-25	14-Nov-23	15-Mar-24	-285	0%								
Noise Barrier FLN-SE22 (Near Sha Tau Kok)																	
INTS2-1030-1	Noise Barrier Footing-Central Median	49	49	15-Nov-24	14-Jan-25	27-Dec-23	26-Feb-24	-306	0%								
INTS2-1030-2	Noise Barrier Footing-Southbound	49	49	10-Jan-25	11-Mar-25	27-Feb-24	27-Apr-24	-306	0%								
Noise Barrier FLN-SE21 (Near Fanling)																	
INTS2-1030a	Noise Barrier Footing-Northbound	53	6	08-Jun-24 A	14-Nov-24	08-Jul-23	23-Dec-23	-306	88.68%								
INTS2-1030a-1	Noise Barrier Footing-Central Median	49	45	25-Sep-24 A	09-Jan-25	27-Dec-23	26-Feb-24	-306	8.16%								
INTS2-1030a-2	Noise Barrier Footing-Southbound	49	49	10-Jan-25	11-Mar-25	27-Feb-24	27-Apr-24	-306	0%								
U-trough 1-4																	
UT1-1000	U-trough 1 and near by road works and FW-18 (after Bored pile G-06)	50	50	08-Nov-24	08-Jan-25	17-Apr-24	18-Jun-24	-147	0%								
UT1-1010	U-trough 1 and near by road works and FW-18 (after Bored pile G-06)	50	50	09-Jan-25	11-Mar-25	18-Jun-24	16-Aug-24	-147	0%								
UT3-1000	U-trough 3 and near by road works (after F4-01 H pile Northbank of Ng Tung River)	70	70	08-Nov-24	04-Feb-25	09-Feb-24	09-May-24	-197	0%								
UT3-1010	U-trough 3 and near by road works (after F4-01 H pile Northbank of Ng Tung River)	70	70	05-Feb-25	02-May-25	10-May-24	02-Aug-24	-197	0%								

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Construction Programme of ND/2019/05

Activity ID	Activity Name	Rem Dur	Early Start	Early Finish	November 2024				December 2024				January 2025				February 2025			
					03	10	17	24	01	08	15	22	29	05	12	19	26	02	09	16
3MRPNo.57 (December 2024)																				
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		18-Dec-24																
S6-3	Section 6 Completion	0		31-Dec-24*																
2.0 - Preliminary Works																				
2.3 - Contractor's Design (PS 1,109)																				
2.3.2 - (b) Irrigation system																				
CDb-130	Irrigation System - Design Approval	100	01-Aug-24 A	10-Mar-25																
2.3.4 - (d) Lighting System																				
CDD-135	Road Lighting System - Manufacturing and Delivery	72	06-Jul-24 A	10-Feb-25																
2.3.7 - (g) BBI Public Toilet Bio-treatment Plant																				
CDg-130	Public Toilet Bio-treatment Plant - Design Approval	36	09-Jul-24 A	05-Jan-25																
2.3.8 - (h) Traffic Control and Surveillance System (TCSS)																				
CDh-130	TCSS - Design Approval	48	07-Feb-24 A	17-Jan-25																
2.3.9 - (i) Traffic Detector System																				
CDi-130	Traffic Detector System - Design Approval	31	01-Jun-24 A	31-Dec-24																
2.3.10 - (j) Crash Cushion System																				
CDj-100	Crash Cushion System - Procurement	48	01-Dec-24	17-Jan-25																
CDj-110	Crash Cushion System - Prep/Submit Design	48	18-Jan-25	06-Mar-25																
2.3.11 - (k) Deck Girder Access Facilities																				
CDk-100	Access Facilities - Procurement	60	01-Jan-24 A	29-Jan-25																
CDk-110	Access Facilities - Prep/Submit Design	90	30-Jan-25	29-Apr-25																
4.0 - Bridge Construction																				
4.3 - Segment Fabrication																				
4.3.2 - Off-Site Fabrication																				
- B2 Mould (M-02)																				
OSF-880	Seg Fab - B2L B2-01-B1-02 S04-S06 (3 nos) - (M-02)	0	25-Oct-24 A	04-Nov-24 A																
OSF-930	Seg Fab - B2L B1-02-B2-01 S01 (1 no) - (M-02)	0	21-Oct-24 A	24-Oct-24 A																
4.4 - Bridge B1																				
4.4.1 - Substructure Portion I and 1A																				
- Pier																				
B1-7280	B1 - Abutment B1-01M Wall Final Pour	5	12-Nov-24 A	06-Dec-24																
4.4.4 - Bridge Deck																				
- Portal Beam																				
B1-0064	B1-02 Portal Beam Monolytic Connection to Column	15	24-Feb-25	12-Mar-25																
- Cast-in-situ Slab																				
B1-7270	B1 - B1-01M Construct End Diaphragm - Rebar, Formwork and Embedded Items	36	09-Jan-25	22-Feb-25																
B1-7275	B1 - B1-01M Construct End Diaphragm - Pour Concrete and Strip Formwork	15	24-Feb-25	12-Mar-25																
4.4.5 - Bridge Deck Road Works																				
- Road Furniture and Misc Works																				
B1-5288	B1 - Sign Gantry DS19 Off-site Fabrication	78	23-Jan-25	02-May-25																
4.4.6 - Bridge B1 Ground Level Works																				
B1-0014a80	B1 -(Dry season) removal of temp foundation	0	02-Dec-24*																	
B1-0014a90	B1 -Removal of support tower and foundation	48	02-Dec-24	01-Feb-25																
B1-7000	B1 Grd Lev - Reinstatement Works	60	03-Feb-25	14-Apr-25																
B1-7050	B1 Grd Lev - Drainage Works	60	03-Feb-25	14-Apr-25																



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					03	10	17	24	01	08	15	22	29	05	12	19	26	02	09	16
4.5 - Bridge B2																				
4.5.1 - Substructure																				
- Pier B2-01																				
B2-0318	B2-01 Cross Head Remove Temp Works	15	23-Oct-24 A	18-Dec-24	[Actual Work]				[Non-critical]											
4.5.2 - Bridge Deck Structure																				
B2-0450	B2-03 - Segment Erection T-span by LG (30 nos)	0	02-Nov-24 A	15-Nov-24 A	[Actual Work]				[Non-critical]											
B2-0460	B2-03/C1-01M End-span Erection by LG (9 nos) + Stitching + Stressing	20	23-Nov-24 A	24-Dec-24	[Actual Work]				[Non-critical]											
B2-0470	B2-03/B2-02 Mid-span Stitch and Stressing	10	16-Nov-24 A	12-Dec-24	[Actual Work]				[Non-critical]											
B2-0485	Walk Launching Gantry to B1-02	4	27-Dec-24	31-Dec-24					[Non-critical]											
B2-0490	B2-01 - Segment Erection 1st Pair by LG/Hanger Beam (3 pairs)	14	02-Jan-25	17-Jan-25					[Non-critical]											
B2-0500	B2-01 - Segment Erection T-span by LG (30 nos)	10	18-Jan-25	01-Feb-25					[Non-critical]											
B2-0505	B2-02/B2-01 Mid-span Stitch and Stressing	18	03-Feb-25	22-Feb-25					[Non-critical]											
B2-0510	B2-01/B1-02 End-span Erection by LG (5 nos) + Stitching + Stressing	18	03-Feb-25	22-Feb-25					[Non-critical]											
- Stitch and Stress																				
B2-0540	B2 - Longitudinal Stitching	42	24-Feb-25	14-Apr-25													[Non-critical]			
4.5.4 - Bridge B2 Ground Level Works																				
B2-7050	B2 Grd Lev - Drainage Work	42	24-Feb-25	14-Apr-25													[Non-critical]			
B2-7070	B2 Grd Lev - Drainage OUTFALL_CP01	42	24-Feb-25	14-Apr-25													[Non-critical]			
B2-7080	B2 Grd Lev - Drainage OUTFALL_8702	42	24-Feb-25	14-Apr-25													[Non-critical]			
B2-7100	B2 Grd Lev - DN150 Watermain for Bridge Deck FH	42	24-Feb-25	14-Apr-25													[Non-critical]			
4.6 - Bridge C1																				
4.6.2 - Pier																				
- C1-01M																				
C1-1175	Pier C1-01M N/B Backfilling	12	02-Dec-24	14-Dec-24					[Non-critical]											
C1-1335	Pier C1-01M S/B Backfilling	12	05-Dec-24	18-Dec-24					[Non-critical]											
4.6.4 - Bridge Deck																				
- Stitch and Stress																				
C1-2650	Stress External Tendon E S/B	30	27-Dec-24	04-Feb-25					[Non-critical]											
C1-2750	Stress External Tendon E N/B	30	27-Dec-24	04-Feb-25					[Non-critical]											
4.6.5 - Road Works and Furniture																				
- Parapet																				
C1-4010	C1 S/B Parapet Skin Erection (180m @ 20m/day)	12	27-Dec-24	10-Jan-25					[Non-critical]											
C1-4020	C1 S/B Parapet Rebar+Cast-in Items (180m @ 30m/day)	12	04-Jan-25	17-Jan-25					[Non-critical]											
C1-4025	C1 S/B Parapet Cast Concrete (180m 2nos 12m-mould @ 3d cycle)	24	05-Feb-25	04-Mar-25					[Non-critical]											
C1-4030	C1 N/B Parapet Skin Erection (180m @ 20m/day)	12	19-Feb-25	04-Mar-25					[Non-critical]											
C1-4040	C1 N/B Parapet Rebar+Cast-in Items (180m)	12	26-Feb-25	11-Mar-25					[Non-critical]											
C1-4048	C1 Longitudinal Stitching (180m)	24	05-Feb-25	04-Mar-25					[Non-critical]											
C1-4049	C1 Central Median (180m 2sets 12m-mould @ 4d cycle)	30	26-Feb-25	01-Apr-25					[Non-critical]											
- Road Furniture and Misc Works																				
C1-4502	C1 - Sign Gantry FADS19 Off-site Fabrication	90	12-Dec-24	02-Apr-25					[Non-critical]											
C1-4520	C1 - Void Lighting System and Access Facilities	48	05-Feb-25	01-Apr-25					[Non-critical]											
4.7 - Bridge C2																				
4.7.5 - Road Works and Furniture																				
- Parapet																				
C2-4010	C2 S/B Parapet Skin Erection (276m @ 20m/day)	12	06-Aug-24 A	18-Dec-24	[Actual Work]				[Non-critical]											
C2-4020	C2 S/B Parapet Rebar+Cast-in Items (276m @ 30m/day)	16	09-Aug-24 A	23-Dec-24	[Actual Work]				[Non-critical]											
C2-4025	C2 S/B Parapet Cast Concrete (276m 2nos 12m-mould @ 3d cycle)	21	21-Aug-24 A	31-Dec-24	[Actual Work]				[Non-critical]											
C2-4030	C2 N/B Parapet Skin Erection (276m @ 20m/day)	8	12-Aug-24 A	13-Dec-24	[Actual Work]				[Non-critical]											
C2-4040	C2 N/B Parapet Rebar+Cast-in Items (276m @ 30m/day)	16	17-Aug-24 A	23-Dec-24	[Actual Work]				[Non-critical]											



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C2-4045	C2 N/B Parapet Cast Concrete (276m 2nos 12m-mould @ 3d cycle)	26	22-Aug-24 A	07-Jan-25																
C2-4048	C2 Longitudinal Stitching (276m)	24	03-Sep-24 A	31-Dec-24																
C2-4060	C2 Central Median (276m 2sets 12m-mould @ 4d cycle)	18	09-Sep-24 A	31-Dec-24																
- Road Paving and Marking																				
C2-5110	C2 S/B Make Good Surface and Apply Waterproofing	12	17-Feb-25	01-Mar-25																
- Road Furniture and Misc Works																				
C2-4100	C2 - Road Furniture S/B	30	08-Jan-25	14-Feb-25																
C2-4150	C2 - Noise Barrier NB27	30	08-Jan-25	14-Feb-25																
C2-4500	C2 - Road Furniture N/B	30	08-Jan-25	14-Feb-25																
C2-4510	C2 - Road Lighting including Cabling	30	08-Jan-25	14-Feb-25																
C2-4522	C2 - Void Drainage	30	09-Jan-25	15-Feb-25																
4.7.6 - Bridge C2 Ground Level Works																				
C2-7000	C2 Grd Lev - Reinstatement Works	48	03-Feb-25	29-Mar-25																
C2-7050	C2 Grd Lev - Drainage Works	48	02-Dec-24	01-Feb-25																
C2-7080	C2 Grd Lev - Drainage OUTFALL_8553	48	02-Dec-24	01-Feb-25																
4.8 - Bridge C3																				
4.8.6 - Road Works and Furniture																				
- Parapet																				
C3-4010	C3 S/B Parapet Skin Erection/Cast Kicker (225m @ 20m/day)	6	17-Jun-24 A	07-Dec-24																
C3-4020	C3 S/B Parapet Rebar+Cast-in Items (225m @ 30m/day)	10	08-Jul-24 A	12-Dec-24																
C3-4025	C3 S/B Parapet Cast Concrete (225m 2nos 12m-mould @ 3d cycle)	12	12-Jul-24 A	14-Dec-24																
C3-4030	C3 N/B Parapet Skin Erection/Cast Kicker (225m @ 20m/day)	6	02-May-24 A	07-Dec-24																
C3-4040	C3 N/B Parapet Rebar+Cast-in Items (225m @ 30m/day)	9	27-May-24 A	14-Dec-24																
C3-4045	C3 N/B Parapet Cast Concrete (225m 2nos 12m-mould @ 3d cycle)	12	28-May-24 A	18-Dec-24																
C3-4048	C3 Longitudinal Stitching (225m)	6	21-Aug-24 A	07-Dec-24																
C3-4049	C3 Central Median Construction (225m 2nos 12m-mould @ 4d cycle)	6	26-Sep-24 A	07-Dec-24																
- Road Paving and Marking																				
C3-5110	C3 S/B Make Good Surface and Apply Waterproofing	12	02-Jan-25	15-Jan-25																
C3-5120	C3 S/B Base Course	6	16-Jan-25	22-Jan-25																
C3-5130	C3 S/B Gratings and Gullies	12	23-Jan-25	08-Feb-25																
C3-5140	C3 S/B Wearing and Friction Course	6	10-Feb-25	15-Feb-25																
C3-5150	C3 S/B Road Marking	6	17-Feb-25	22-Feb-25																
C3-5210	C3 N/B Make Good Surface and Apply Waterproofing	12	23-Jan-25	08-Feb-25																
C3-5220	C3 N/B Base Course	6	10-Feb-25	15-Feb-25																
C3-5230	C3 N/B Gratings and Gullies	12	17-Feb-25	01-Mar-25																
- Furniture and Misc Works																				
C3-4100	C3 S/B - Road Furniture	30	19-Dec-24	25-Jan-25																
C3-4150	C3 S/B - Noise Barrier NB31	30	19-Dec-24	25-Jan-25																
C3-4500	C3 N/B - Road Furniture	30	19-Dec-24	25-Jan-25																
C3-4501	C3 - Road Lighting including Cabling	30	19-Dec-24	25-Jan-25																
C3-4502	C3 - Sign Gantry ADS19 Off-site Fabrication	72	09-Dec-24	08-Mar-25																
4.8.7 - Bridge C3 Ground Level Works																				
C3-7000	C3 Grd Lev - Reinstatement Works	42	17-Feb-25	07-Apr-25																
C3-7080	C3 Grd Lev - Drainage OUTFALL_8565	60	02-Dec-24	15-Feb-25																
C3-7100	C3 Grd Lev - DN150 Watermain for Bridge Deck FH	36	17-Feb-25	29-Mar-25																
4.9 - Bridge C4																				
4.9.6 - Road Works and Furniture																				
- Parapet																				
C4-3005	C4 Seal Temporary Opening	24	10-Feb-25	08-Mar-25																



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C4-3048	C4 Longitudinal Stitching (215m)	42	03-Feb-25	22-Mar-25																
- Furniture and Misc Works																				
C4-4160	C4 S/B Noise Barrier NB32	24	02-Dec-24	31-Dec-24																
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-Dec-24	08-Jan-25																
4.11 - Bridge D2																				
4.11.2 - Pier																				
- D2-04M																				
D2-6050	Abutment D2-04M Backfilling	3	26-Nov-24 A	04-Dec-24																
D2-7280	Abutment D2-04M Install Bearing	8	22-Oct-24 A	10-Dec-24																
4.11.3 - Bridge Deck																				
- D2-01																				
- Prep Work																				
D2-2153	Existing Lift - Reinstatement	48	15-Nov-24 A	01-Feb-25																
- T-span																				
D2-2178	D2-01 Bridge Rotation 2nd Balancing	0	30-Oct-24 A	30-Oct-24 A																
D2-2179	D2-01 Bridge Rotation Rotate T-span by 61 deg	0	03-Nov-24 A	03-Nov-24 A																
D2-2181	D2-01 Long Term Shim and Welding	0	03-Nov-24 A	03-Nov-24 A																
D2-2182	Pier D2-01 Stitch Pile Cap	0	04-Nov-24 A	12-Nov-24 A																
D2-2183	D2-01 Cast-in-situ T-span by Form Traveler (8th pair) - FT3	36	18-Nov-24 A	15-Jan-25																
D2-2183a	D2-01 Cast-in-situ T-span by Form Traveler (9th pair) - FT3	12	16-Jan-25	01-Feb-25																
D2-2183b	D2-01 Cast-in-situ T-span by Form Traveler (10th pair) - FT3	12	03-Feb-25	15-Feb-25																
D2-2183c	D2-01 Cast-in-situ T-span by Form Traveler (11th pair) - FT3	12	17-Feb-25	01-Mar-25																
- D2-04M																				
D2-2410	D2-04M Implement TTA for End-span segment erection	18	11-Dec-24	03-Jan-25																
D2-2420	D2-04M End-span Falsework	18	04-Jan-25	24-Jan-25																
D2-2460	D2-04M End-Span SOP - S00	6	25-Jan-25	04-Feb-25																
D2-2470	D2-04M End-span Segment Erection (6 nos)	18	05-Feb-25	25-Feb-25																
D2-2495	D2-04M/D2-03 Stitching + Stress Bottom Tendon	18	26-Feb-25	18-Mar-25																
4.11.4 - Road Works and Furniture																				
- Parapet																				
D2-3050	D2 Obtain MTRC/HYD Consent for Parapet Construction	120	02-Dec-24	02-May-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-Dec-24	08-Jan-25																
4.13 - Bridge E2																				
4.13.3 - Bridge Deck																				
- End-span E2/E1-05M																				
E2-7500	E2-01/E1-04M Sitch and Stress Bottom Tendon + 1 segment	18	31-Oct-24 A	21-Dec-24																
- T-span E2-02																				
E2-7445	E2-02/E2-01 Stitch and Stress Bottom Tendon (special form work)	42	02-Dec-24	22-Jan-25																
- Stitch and Stress																				
E2-2750	Bridge E2 - Stress External Tendon E	24	23-Jan-25	22-Feb-25																
4.13.4 - Road Works and Furniture																				
- Parapet																				
E2-3010	Bridge E2 - Obtain MTRC Consent for Parapet Construction	31	01-Jan-24 A	31-Dec-24																



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E4-2810	U-trough/Ramp - Site Clearance/Formation	18	17-Feb-25	08-Mar-25																
E4-7308	E-FADS 11 Foundation (right)	18	02-Dec-24	21-Dec-24																
E4-7325	E4-03 Abutment Ret Wall - Walls (4 bays)	60	02-Dec-24	15-Feb-25																
E4-7335	E4-03 Abutment Ret Wall - Backfilling/Reinstatement	18	17-Feb-25	08-Mar-25																
4.15.6 - Road Works and Furniture																				
- Furnitures and Misc Works																				
E4-7270	E4 - Void Lighting System and Access Facilities	48	08-Feb-25	05-Apr-25																
5.0 - Fanling Highway Associated Works																				
5.1 - Sign Gantry																				
5.1.4 - DS 21A																				
FHY-1780	DS21A - Off-site Fabrication	90	24-Dec-24	15-Apr-25																
5.1.5 - FADS 21																				
FHY-1810	FADS21 - Off-site Fabrication	78	02-Dec-24	08-Mar-25																
5.2 - Fanling Highway Noise Barrier																				
5.2.1 - Noise Barrier NB108																				
FHY-1141	NB108 - TTA TMLG Initial Comment	6	02-Dec-24	07-Dec-24																
FHY-1143	NB108 - TTA 2nd Submission	30	09-Dec-24	15-Jan-25																
FHY-1144	NB108 - TTA TMLG Final Comment	6	09-Jan-25	15-Jan-25																
FHY-1145	NB108 - TTA 3rd Submission	30	16-Jan-25	22-Feb-25																
FHY-1146	NB108 - TTA TMLG Approval	6	17-Feb-25	22-Feb-25																
FHY-1148	NB108 - Lighting Removal/Install Temporary Lighting	36	02-Dec-24	15-Jan-25																
5.2.2 - Noise Barrier NB70																				
FHY-1410	NB70 - Bay 1-6 Sheet Piles	18	12-Apr-24 A	21-Dec-24																
FHY-1415	NB70 - Bay 1-6 Excavation	24	18-May-24 A	31-Dec-24																
FHY-1420	NB70 - Bay 1-6 Footing	28	11-Jun-24 A	06-Jan-25																
FHY-1430	NB70 - Bay 1-6 Backfilling and Reinstatement	60	02-Jan-25	15-Mar-25																
5.2.3 - Noise Barrier NB109																				
FHY-1509	NB109 - Bay 1-4 Backfilling and Reinstatement	0	25-Oct-24 A	28-Nov-24 A																
FHY-1519	NB109 - Bay 5-13 Backfilling and Reinstatement	24	12-Jan-24 A	31-Dec-24																
FHY-1520	NB109 - Bay 5-13 Road Works	42	02-Jan-25	22-Feb-25																
FHY-1523	NB109 - Bay 14-20 Sheet Piles	45	01-Jun-24 A	25-Jan-25																
FHY-1524	NB109 - Bay 14-20 Excavation	44	13-Jul-24 A	24-Jan-25																
FHY-1525	NB109 - Bay 14-20 Footing	56	07-Aug-24 A	11-Feb-25																
FHY-1527	NB109 - Bay 14-20 Stem Wall	78	11-Dec-24	18-Mar-25																
FHY-1529	NB109 - Bay 14-20 Backfilling and Reinstatement	60	05-Feb-25	16-Apr-25																
FHY-1530	NB109 - Bay 14-20 Road Works	48	19-Feb-25	16-Apr-25																
FHY-1555	NB109 - Fabrication and Delivery	120	04-Dec-24	06-May-25																
5.2.4 - Noise Barrier NB66																				
FHY-1151	NB66 - TTA Preparation / 1st Submission	30	16-Jan-25	22-Feb-25																
FHY-1152	NB66 - TTA TMLG Initial Comment	6	17-Feb-25	22-Feb-25																
FHY-1153	NB66 - TTA 2nd Submission	30	24-Feb-25	29-Mar-25																
5.2.5 - Fanling Bypass N/B Slip Road																				
TSW-4208	Noise Barrier NB29 U-shaped (bays 6 to 15) - Walls	51	19-Feb-24 A	05-Feb-25																
TSW-4210	Noise Barrier NB29 U-shaped (bays 6 to 15) - Backfilling & Reinstatement	60	28-Dec-24	12-Mar-25																
TSW-4220	Noise Barrier NB29 - Bay 20-23 Sheet Piles	18	03-Jan-25	23-Jan-25																
TSW-4225	Noise Barrier NB29 - Bay 20-23 Excavation	42	24-Jan-25	17-Mar-25																
TSW-4230	Noise Barrier NB29 - Bay 20-23 Footing	42	25-Feb-25	15-Apr-25																
TSW-4242	Noise Barrier NB29 - Bay 16-19 Sheet Piles	20	28-Oct-24 A	02-Jan-25																
TSW-4245	Noise Barrier NB29 - Bay 16-19 Excavation	42	18-Nov-24 A	24-Feb-25																



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TSW-4248	Noise Barrier NB29 - Bay 16-19 Footing	42	04-Feb-25	24-Mar-25																
TSW-4250	Noise Barrier NB29 - Bay 16-19 Stem Wall	42	25-Feb-25	15-Apr-25																
TSW-4260	Noise Barrier NB29 - Fabrication and Delivery	150	20-Jan-25	25-Jul-25																
5.3 - Tai Wo Service Road East (TWSR-East)																				
5.3.1 - TWSR-East HKY FB Extension																				
- Lift and Stairs Structure																				
FBE-1235	HKY FB East LT1 Lift Shaft - Steel Works	12	01-Aug-24 A	14-Dec-24																
- Lift Installation																				
FBE-1285	HKY FB East Lift - Installation	72	16-Dec-24	15-Mar-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	11-Feb-25	10-Mar-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	30	10-Aug-24 A	08-Jan-25																
BBI-1030	BBI Public Toilet - Wall and Roof	30	04-Mar-24 A	08-Jan-25																
BBI-1100	BBI Public Toilet - BS, Finishing and Fixtures	72	09-Jan-25	07-Apr-25																
BBI-1120	BBI Public Toilet - Bio-treatment Plant Installation	60	23-Jan-25	07-Apr-25																
BBI-1250	BBI Covered Walkway - Remaining Works	48	31-Dec-24	28-Feb-25																
- TWSR East (2) BBI Exit to Fanling Highway																				
BBI-1585	BBI - TTA Stage 5 - Divert BBI Traffic Back to Road D400	12	14-Dec-24	30-Dec-24																
BBI-1590	BBI Exit to FH - New Feature FS02 (Fill Slope)	48	31-Dec-24	28-Feb-25																
BBI-1595	BBI Exit to FH - New Feature FS03 (Fill Slope)	48	31-Dec-24	28-Feb-25																
BBI-1710	Road D400 Ch450-Ch550 - Drainage, Sewerage and Utilities	24	01-Feb-25	28-Feb-25																
BBI-1715	E-DS64 Sign Temporary Relocation	24	01-Feb-25	28-Feb-25																
5.3.5 - TWSR-East Noise Barrier																				
- Noise Barrier NB110 (Typ FV3)																				
TSE-1303	E-FADS 11 Foundation (left)	14	26-Apr-24 A	17-Dec-24																
TSE-1350	Noise Barrier NB110 - Bay 10-12 Mini-pile Testing	0	23-Oct-24 A	26-Oct-24 A																
TSE-1350b	Noise Barrier NB110 - Bay 10-12 Excavation	12	19-Oct-24 A	14-Dec-24																
TSE-1350c	Noise Barrier NB110 - Bay 10-12 Footing/Pile Cap	24	16-Dec-24	15-Jan-25																
TSE-1350d	Noise Barrier NB110 - Bay 10-12 Stem Wall	24	16-Jan-25	15-Feb-25																
TSE-1350f	Noise Barrier NB110 - Bay 9-12 Backfilling/Reinstatement	24	17-Feb-25	15-Mar-25																
- Noise Barrier NB68																				
TSE-1568	Noise Barrier NB68 - Fabrication and Delivery	120	13-Feb-25	11-Jul-25																
- Noise Barrier NB69																				
TSE-1565	Noise Barrier NB69 - Fabrication and Delivery	120	13-Feb-25	11-Jul-25																
5.4 - Tai Wo Service Road West (TWSR-West)																				
5.4.4 - TWSR-West Ch450 to Ch600																				
- Lift																				
TSW-4544	HKYFB West - Lift Wall to FB Level	8	10-Sep-24 A	10-Dec-24																
TSW-4545	HKYFB West - Lift Wall to Roof	18	11-Dec-24	03-Jan-25																
TSW-4546	HKYFB West - Roof	18	04-Jan-25	24-Jan-25																
TSW-4547	HKYFB West - Lift Backfilling	9	25-Jan-25	07-Feb-25																
TSW-4550	HKYFB West - Lift & FB Steel Fabrication	60	27-Apr-24 A	15-Feb-25																
TSW-4555	HKYFB West - Lift & FB Steel Erection	48	17-Feb-25	14-Apr-25																
- Stairs																				
TSW-4630	HKY-NB1/HKY-NB2/HKY-AB2 Socketed H-pile Install (16 nos - 1 rig @ 3d cycle)	27	31-Oct-24 A	04-Jan-25																

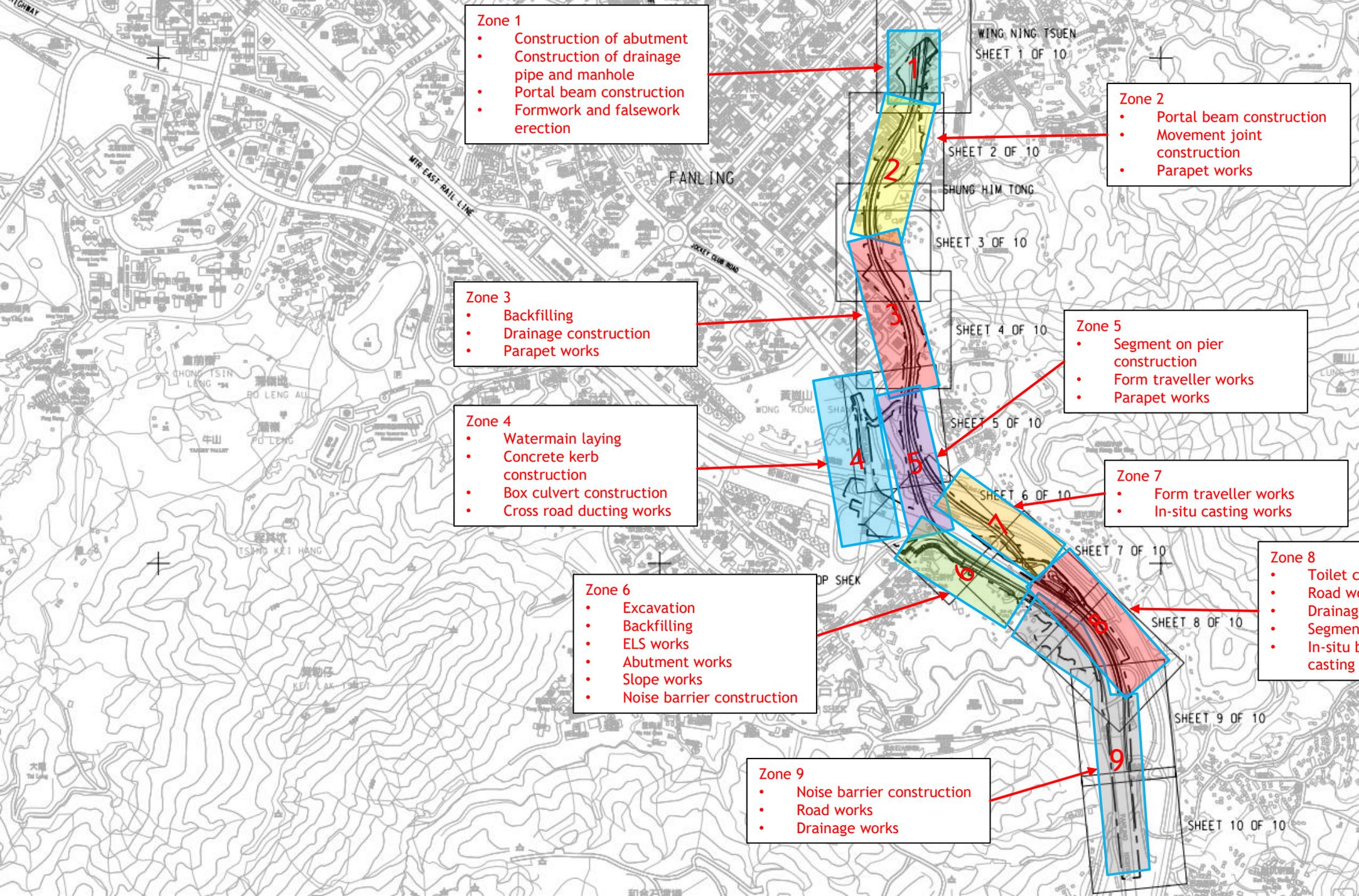


■ Actual Work
■ Non-critical
■ Critical
◆ Milestone

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

Project ID : 3MRPNo.57
 Layout : 3MRP
 Date : 02-Dec-24 / Page 7 of 8

3MRP			
Date	Revision	Check...	Approved
01-Dec-24	3MRP		



- Zone 1**
- Construction of abutment
 - Construction of drainage pipe and manhole
 - Portal beam construction
 - Formwork and falsework erection

- Zone 2**
- Portal beam construction
 - Movement joint construction
 - Parapet works

- Zone 3**
- Backfilling
 - Drainage construction
 - Parapet works

- Zone 5**
- Segment on pier construction
 - Form traveller works
 - Parapet works

- Zone 4**
- Watermain laying
 - Concrete kerb construction
 - Box culvert construction
 - Cross road ducting works

- Zone 7**
- Form traveller works
 - In-situ casting works

- Zone 6**
- Excavation
 - Backfilling
 - ELS works
 - Abutment works
 - Slope works
 - Noise barrier construction

- Zone 8**
- Toilet construction
 - Road works
 - Drainage works
 - Segment erection
 - In-situ bridge segment casting

- Zone 9**
- Noise barrier construction
 - Road works
 - Drainage works

CONSULTANT
 AECOM Asia Company Ltd.
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SUB-CONSULTANTS

ISSUE/REVISION

NO.	DATE	DESCRIPTION	CHK.
1	JUN-19	TENDER DRAWING	P/PCM

STATUS

SCALE

DIMENSION UNIT

METRES

PROJECT NO.

CONTRACT NO.

60335576

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	2024	2025			
						Nov	Dec	Jan	Feb	Mar
Fanling North New Development Area, Phase 1: Site Formation and Infrastructure Works										
Project Commencement and Completion										
PCC1020	Completion Date	0.0	16-Nov-24	16-Nov-24	0.0		• Completion Date			
Key Dates and Sectional Completion of the Works										
Contractual Sectional Completion of the Works										
KDS1050	Section 5- Completion of site formation and infrastructure works in Works Area E and remainder of the Works	0.0	08-Nov-24	08-Nov-24	-72.0		• Section 5- Completion of site formation and infrastructure works in Works Area E and remainder of the Works			
KDS1070	Section 7- Completion of all landscape softwork	0.0	27-Jan-25	27-Jan-25	0.0				• Section 7- Completion of all landscape softwork	
Preliminaries, Contractor's Design, Method Statement Submission and General Submission										
PGS1290	Preparation and approval of TTA for Low noise road surfacing Works along MSK Road	150.0	15-Apr-24	10-Dec-24	-2.0					
Major Construction Works Method Statement										
MS1620	Method statement for soil mix works	60.0	02-Apr-24	12-Dec-24	-104.0					
Tendering and Procurement for Major Subcontractor										
Procurement for NB Post and Panel										
TDS1180-5	Fabrication and Delivery to site - NB63 post and panel (Bay7 - Bay12)	36.0	18-Jun-24	23-Nov-24	-52.0					
TDS1180-6	Fabrication and Delivery to site - NB63 post and panel (Bay1 - Bay6)	36.0	17-Nov-24	22-Dec-24	-52.0					
Tree Works and Submission of the tree survey report and tree preservation										
TWS1230	Tree transplanting works in the middle of road (11nos) (after footpath completed in I	80.0	19-Jan-25	08-Apr-25	-41.0					
Section 1- Site Formation and Infrastructure Works in Area A										
Site Formation (Portion I- Area A 11042m2)										
Remaining Site Formation Works after trees felled in FL-G14.1 & FL-G14.2										
S1-SF1185	Removal of temporary works, haul road and temporary accesses (Access for HD cc	30.0	08-Nov-24	12-Dec-24	-36.0					
S1-SF1190	Construction of open channel (45m) (CT71)	28.0	13-Dec-24	17-Jan-25	31.0					
Site Formation (Portion II- Area A 21900m2)										
Site Formation Works in South Part of Portion II										
S1-SF1417	Site formation works part 3 (12577m3) and Removal of temporary works, haul road	78.0	16-May-23	08-Jan-25	-21.0					
S1-SF1420	Construction of open channel (180m)	60.0	09-Jan-25	22-Mar-25	-21.0					
Site Formation (Portion III- Area A 4900m2)										
S1-SF1640	Site formation works(1000m3) and Removal of temporary works, haul road and terr	15.0	20-Dec-24	09-Jan-25	8.0					
S1-SF1650	Removal of temporary works, haul road and temporary accesses	30.0	10-Jan-25	17-Feb-25	8.0					
Site Formation (Portion IV- Area A 3800m2)										
S1-SF1870	Site formation works (2391m3) (after site formation in Area D)	30.0	08-Nov-24	12-Dec-24	17.0					
Slope Works										
S1-SW1010	Forming new slope feature FS06 and construction of slope drainage	42.0	13-Dec-24	06-Feb-25	17.0					
S1-SW1040	Forming new slope feature FS11 (after completion of the outfall for the box culvert)	21.0	08-Nov-24	02-Dec-24	68.0					
Box Culvert BC3 and Outfall 10										
Box Culvert BC3 (CH264 to CH282.799) and Outfall 10										
Bay 22 to 24										
S1-BC1260	Installation of miscellaneous works inside inspection chamber	30.0	01-Mar-24	28-Nov-24	71.0					
Drainage, Sewerage, Waterworks and Road Works										
Along Ma Sik Road										
Water main										
Ma Sik Road westbound slow lane										
S1-CS2445	Reinstatement of road pavement	2.0	26-Oct-24	29-Oct-24						
Advance Directional Sign										
S1-CS2455	Installation of ADS 1	3.0	08-Nov-24	11-Nov-24	8.0					
S1-CS2475	Installation of ADS 2	3.0	12-Nov-24	14-Nov-24	8.0					
S1-CS2485	Construction of footing for ADS 3	7.0	18-Nov-24	25-Nov-24	8.0					
S1-CS2495	Installation of ADS 3	3.0	26-Nov-24	28-Nov-24	8.0					
S1-CS2515	Implement TTA	2.0	15-Nov-24	16-Nov-24	8.0					
Low noise road surfacing on existing concrete carriageway										
TTA - Closure of Ma Sik Road Eastbound Slow Lane between Wo Tai Street and Site Boundary										
S1-CS1240	Implement TTA	1.0	11-Dec-24	11-Dec-24	-2.0					
S1-CS1300	Road pavement and road marking	10.0	14-Dec-24	27-Dec-24	-2.0					
S1-CS1305	Street furniture, road lighting and signage installation	3.0	28-Dec-24	31-Dec-24	-2.0					
S1-CS2525	Levelling of manhole covers, gully gratings and road kerbs	2.0	12-Dec-24	13-Dec-24	-2.0					
TTA - Closure of Ma Sik Road Eastbound Fast Lane for water main works										
S1-CS1680	Implement TTA	1.0	02-Jan-25	02-Jan-25	-2.0					
S1-CS1760	Road pavement and road marking	10.0	06-Jan-25	16-Jan-25	-2.0					
S1-CS1770	Street furniture, road lighting and signage installation	3.0	17-Jan-25	20-Jan-25	-2.0					
S1-CS2535	Levelling of manhole covers, gully gratings and road kerbs	2.0	03-Jan-25	04-Jan-25	-2.0					
Remaining Road Works on Westbound of Ma Sik Road										
S1-CS1370	Implement TTA	1.0	21-Jan-25	21-Jan-25	-2.0					
S1-CS1630	Road pavement and road marking	20.0	27-Jan-25	21-Feb-25	-2.0					
S1-CS2545	Levelling of manhole covers, gully gratings and road kerbs	4.0	22-Jan-25	25-Jan-25	-2.0					
Along Proposed Cycletrack and Footpath										
Works in Portion I										
Works in Portion I CT71										
S1-CS1460	Irrigation system (CT71 Ch369.376 to Ch429 total 59m)	20.0	09-Jan-25	04-Feb-25	-66.0					
S1-CS1465	Laying of fresh water mains (CT71 Ch369.376 to Ch429 total 59m)	20.0	09-Jan-25	04-Feb-25	-66.0					
S1-CS1468	Laying of flush water mains (CT71 Ch369.376 to Ch429 total 59m)	20.0	09-Jan-25	04-Feb-25	-66.0					
S1-CS1469	Construction of cycle track and footpath (59m)	20.0	10-Feb-25	04-Mar-25	-70.0					
S5-RD1600	Utility service by others	45.0	08-Nov-24	02-Jan-25	-61.0					
Works in Portion I CT73 (Ch400 to Ch649)										
S1-CS1472	Irrigation system (CT73 Ch400 to Ch649 total 249m)	20.0	08-Nov-24	30-Nov-24	-66.0					

- 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-Nov-24)

Page : 1 of 3

Date	Revision	Checked	Approved
08-Nov-24	RDWPF	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	2024																	
						Nov	Dec	Jan	Feb	Mar													
SS-RD1970	Divert C4 access onto pavement via eastbound to roundabout	7.0	23-Nov-24	30-Nov-24	-115.0																		
SS-RD2000	Road kerb construction for minor part westbound	3.0	02-Dec-24	04-Dec-24	-115.0																		
SS-RD2030	Installation of manhole covers and gully gratings for minor part westbound	3.0	05-Dec-24	07-Dec-24	-115.0																		
Stage 4		74.0	09-Dec-24	11-Mar-25	-35.0																		
SS-RD1505	Construction of irrigation system	28.0	09-Dec-24	13-Jan-25	-115.0																		
SS-RD1535	Construction of planters	30.0	09-Dec-24	15-Jan-25	-115.0																		
SS-RD1550	Construction of cycle track and footpath	30.0	05-Feb-25	11-Mar-25	-35.0																		
SS-RD2060	Pavement of wearing course (WC) for whole surface, matching with the entrance pavement	7.0	24-Jan-25	04-Feb-25	-35.0																		
SS-RD2080	Road pavement cleaning and gully clearing	7.0	16-Jan-25	23-Jan-25	-35.0																		
Section 6- Completion of Preservation And Protection Of Existing Trees		1146.0	31-Aug-20 A	23-Jun-25	-93.0																		
S6-CS1000	Preservation and protection of trees	1146.0	31-Aug-20 A	23-Jun-25	-93.0																		
Section 7- Completion of All Landscape Softworks		30.0	03-Jan-25	10-Feb-25	-116.0																		
S7-CS1100	Fabrication of Soil Mix & Obtain lab test report	30.0	03-Jan-25	10-Feb-25	-116.0																		

- 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-Nov-24)
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Date	Revision	Checked	Approved
08-Nov-24	RDWPF	ST	MC

Portion	Legend
I	
II	
III	
IV	
V	
occupied by Housing	

PORTION II

1. C&D waste disposal
2. Filling works
3. Waterworks
4. Drainage works

PORTION I

1. C&D waste disposal
2. Drainage works
3. Road works
4. Waterworks

PORTION IV

1. Drainage works
2. Sewerage works
3. C&D waste disposal
4. Filling works
5. Construction of site haul road
6. Construction of noise barrier
7. Road works
8. Waterworks

PORTION V

1. Road works

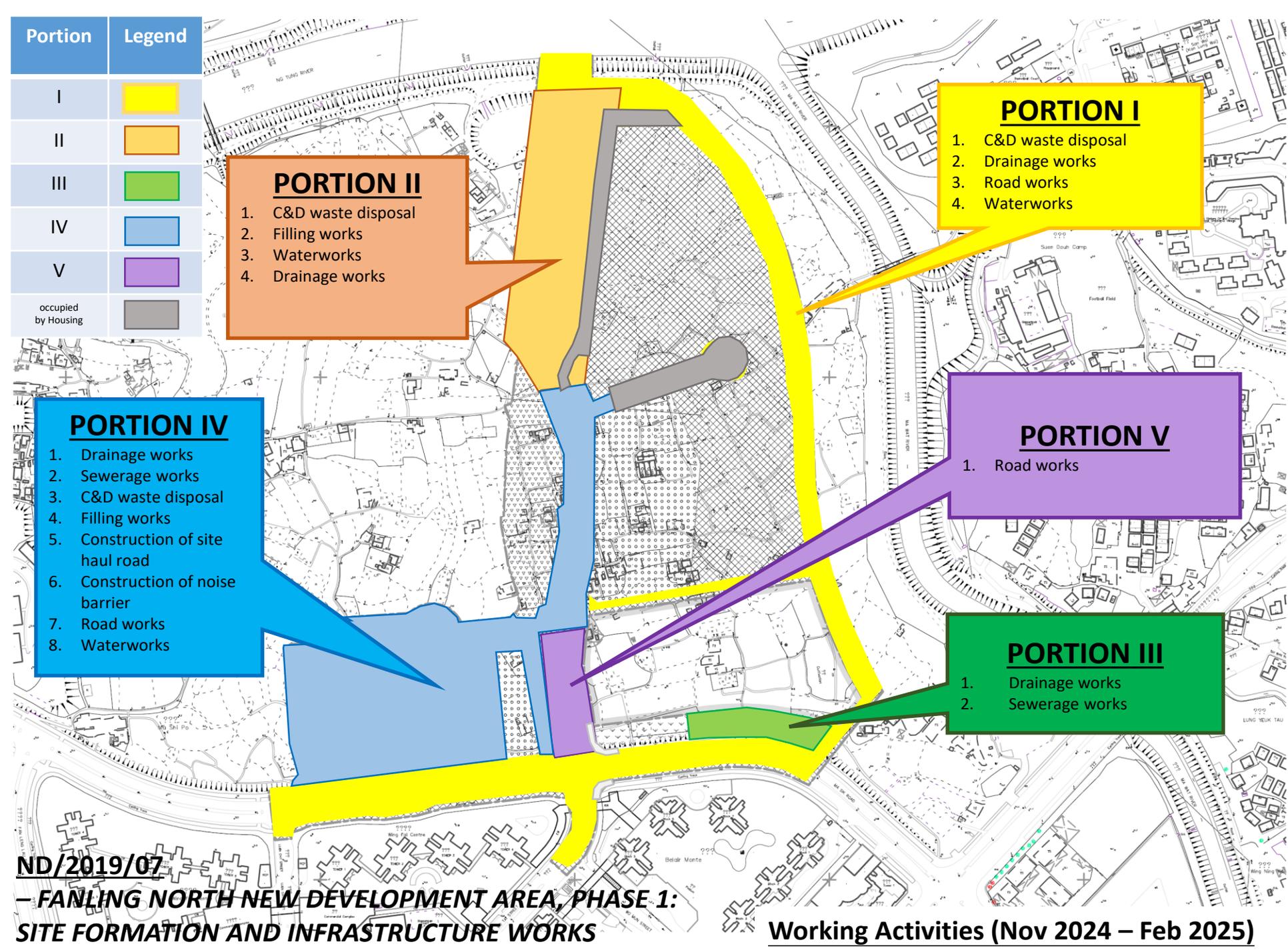
PORTION III

1. Drainage works
2. Sewerage works

ND/2019/07

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

Working Activities (Nov 2024 – Feb 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: <u>6.1</u> ^[2]	SYR-IS1: <u>6.0</u> ^[2]
SS in mg/L (depth average) ^[1]	SYR-IS1: <u>75.6</u> or 120% of upstream control station, whichever is higher ^[3]	SYR-IS1: <u>83.1</u> or 130% of upstream control station, whichever is higher ^[3]
Turbidity in NTU (depth average) ^[1]	SYR-IS1: <u>48.2</u> or 120% of upstream control station, whichever is higher ^[3]	SYR-IS1: <u>50.9</u> or 130% of upstream control station, whichever is higher ^[3]
Arsenic in µg/L (depth average) ^[2]	SYR-IS1: <u>5.4</u> 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: <u>5.8</u> ^[2] SHST-IS2: <u>7.0</u> ^[2] MWR-IS3: <u>8.6</u> ^[2]	NTR-IS1: <u>5.7</u> ^[2] SHST-IS2: <u>6.8</u> ^[2] MWR-IS3: <u>8.5</u> ^[2]
SS in mg/L (depth average) ^[1]	NTR-IS1: <u>8.9</u> SHST-IS2: <u>4.0</u> MWR-IS3: <u>14.0</u> or 120% of upstream control station, whichever is higher ^[3]	NTR-IS1: <u>9.0</u> SHST-IS2: <u>4.0</u> MWR-IS3: <u>14.4</u> or 130% of upstream control station, whichever is higher ^[3]
Turbidity in NTU (depth average) ^[1]	NTR-IS1: <u>6.0</u> SHST-IS2: <u>4.4</u> MWR-IS3: <u>10.1</u> or 120% of upstream control station, whichever is higher ^[3]	NTR-IS1: <u>6.1</u> SHST-IS2: <u>4.7</u> MWR-IS3: <u>11.1</u> 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/m³ - 80% of 11.7ng/m ³ – the highest ambient arsenic concentration predicted during the construction phase with mitigation measures implemented)	11.7ng/m³ - 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 CH ₄ 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 Vibration Limit for Construction Vibration Monitoring

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	

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

Monitoring Parameter	Action Level	Limit Level
Mean abundance of bird	540	386
Mean abundance of <i>Ardeola bacchus</i>	10	7
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 – November

Monitoring Parameter	Action Level	Limit Level
Mean abundance of birds*	12	9
Mean abundance of <i>Ardeola bacchus</i>	6	4
*Large waterbirds: <i>Ardea alba</i> , <i>Ardea cinerea</i> , <i>Ardea intermedia</i> , <i>Egretta eulophotes</i> , <i>Egretta garzetta</i> and <i>Phalacrocorax carbo</i>		

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

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

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

**APPENDIX C
COPIES OF CALIBRATION
CERTIFICATES**

TEST REPORT

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

Test Report No.:	41075
Date of Issue:	2024-09-16
Date Received:	2024-09-13
Date Tested:	2024-09-13
Date Completed:	2024-09-16
Next Due Date:	2024-11-15

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)	1.202
-------------------------	-------

PREPARED AND CHECKED BY:

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



PATRICK TSE
 General Manager

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:	13-Sep-24	13-Sep-24
Location:	Wellab Office (Calibration Room)	

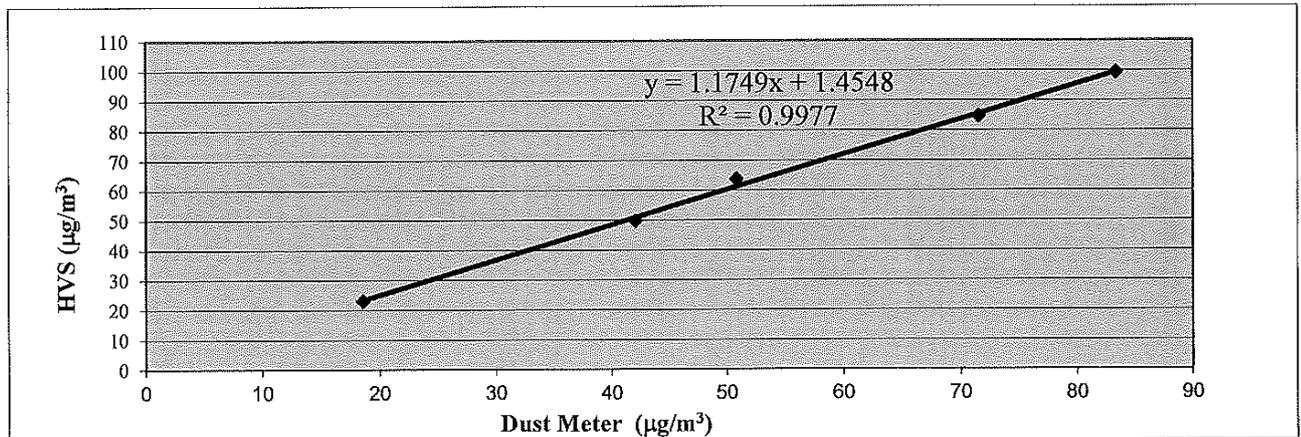
Calibration of 1 hr TSP		
Calibration Point	Dust Meter	HVS
	Mass Concentration ($\mu\text{g}/\text{m}^3$) X-axis	Mass concentration ($\mu\text{g}/\text{m}^3$) Y-axis
1	19	23
2	42	50
3	51	64
4	72	85
5	83	99
Average	53.3	64.1

By Linear Regression of Y on X
 Slope, mw = 1.1749 Intercept, bw = 1.4548
 Correlation coefficient* = 0.9989

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particulate Concentration by High Volume Sampler ($\mu\text{g}/\text{m}^3$)	64.1
Particulate Concentration by Dust Meter ($\mu\text{g}/\text{m}^3$)	53.3
Measuring time, (min)	60

Set Correlation Factor, SCF
 $\text{SCF} = |K = \text{High Volume Sampler} / \text{Dust Meter, } (\mu\text{g}/\text{m}^3) |$ 1.202



QC Reviewer: [Signature] Signature: [Signature] Date: 14/9/2024

TEST REPORT

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

Test Report No.:	41441
Date of Issue:	2024-11-18
Date Received:	2024-11-16
Date Tested:	2024-11-16
Date Completed:	2024-11-18
Next Due Date:	2025-01-17
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)	1.192
-------------------------	-------

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


PATRICK TSE
General Manager

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:	16-Nov-24	16-Nov-24
Location:	Wellab Office (Calibration Room)	

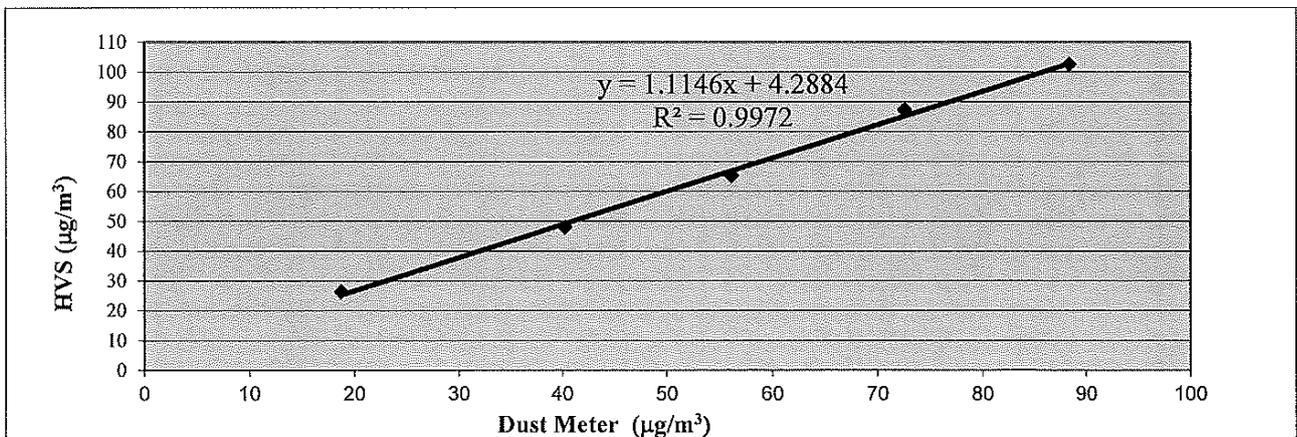
Calibration of 1-hr TSP		
Calibration Point	Dust Meter	HVS
	Mass Concentration ($\mu\text{g}/\text{m}^3$) X-axis	Mass concentration ($\mu\text{g}/\text{m}^3$) Y-axis
1	19	26
2	40	48
3	56	65
4	73	87
5	88	103
Average	55.3	65.9

By Linear Regression of Y on X
 Slope, mw = 1.1146 Intercept, bw = 4.2884
 Correlation coefficient* = 0.9986

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particulate Concentration by High Volume Sampler ($\mu\text{g}/\text{m}^3$)	65.9
Particulate Concentration by Dust Meter ($\mu\text{g}/\text{m}^3$)	55.3
Measuring time, (min)	60

Set Correlation Factor, SCF
 SCF = | K=High Volume Sampler / Dust Meter, ($\mu\text{g}/\text{m}^3$) | 1.192



QC Reviewer: LEE MAN HEI Signature: Lee Date: 17/11/24

TEST REPORT

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

Test Report No.:	41441A
Date of Issue:	2024-11-18
Date Received:	2024-11-16
Date Tested:	2024-11-16
Date Completed:	2024-11-18
Next Due Date:	2025-01-17

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. : 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)	1.129
-------------------------	-------

PREPARED AND CHECKED BY:

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


PATRICK TSE
 General Manager

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:	16-Nov-24	16-Nov-24
Location:	Wellab Office (Calibration Room)	

Calibration of 1 hr TSP		
Calibration Point	Dust Meter	HVS
	Mass Concentration ($\mu\text{g}/\text{m}^3$) X-axis	Mass concentration ($\mu\text{g}/\text{m}^3$) Y-axis
1	21	26
2	44	48
3	60	65
4	76	87
5	90	103
Average	58.4	65.9

By Linear Regression of Y on X

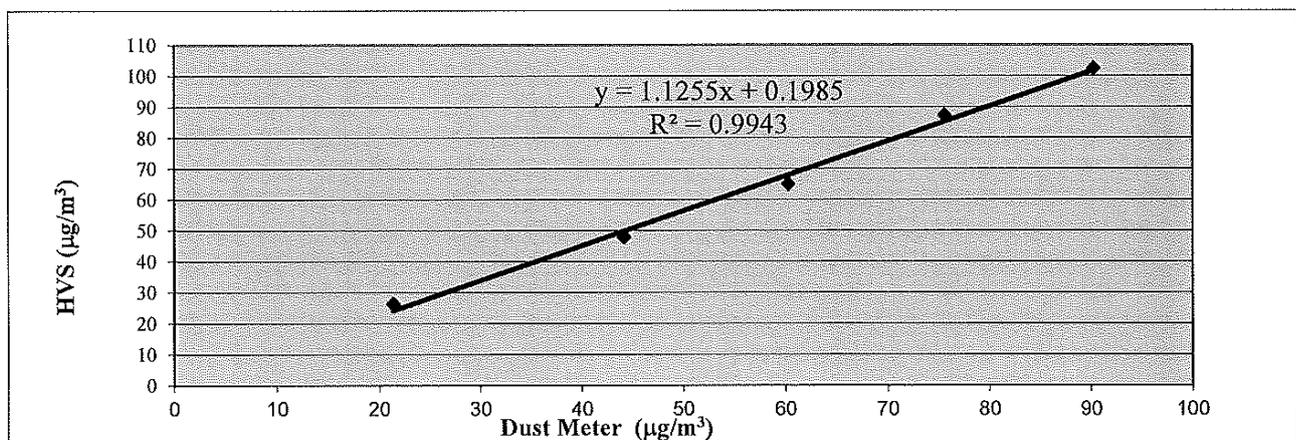
Slope, $m_w =$ 1.1255 Intercept, $b_w =$ 0.1985
 Correlation coefficient* = 0.9971

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particulate Concentration by High Volume Sampler ($\mu\text{g}/\text{m}^3$)	65.9
Particulate Concentration by Dust Meter ($\mu\text{g}/\text{m}^3$)	58.4
Measuring time, (min)	60

Set Correlation Factor, SCF

SCF = $|K = \text{High Volume Sampler} / \text{Dust Meter, } (\mu\text{g}/\text{m}^3) |$ 1.129



QC Reviewer: LEE MAN YEE Signature: lee Date: 17/11/24

TEST REPORT

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

Test Report No.:	41075B
Date of Issue:	2024-09-16
Date Received:	2024-09-13
Date Tested:	2024-09-13
Date Completed:	2024-09-16
Next Due Date:	2024-11-15
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.	: 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)	1.127
-------------------------	-------

PREPARED AND CHECKED BY:

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


PATRICK TSE
General Manager

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:	13-Sep-24	13-Sep-24
Location:	Wellab Office (Calibration Room)	

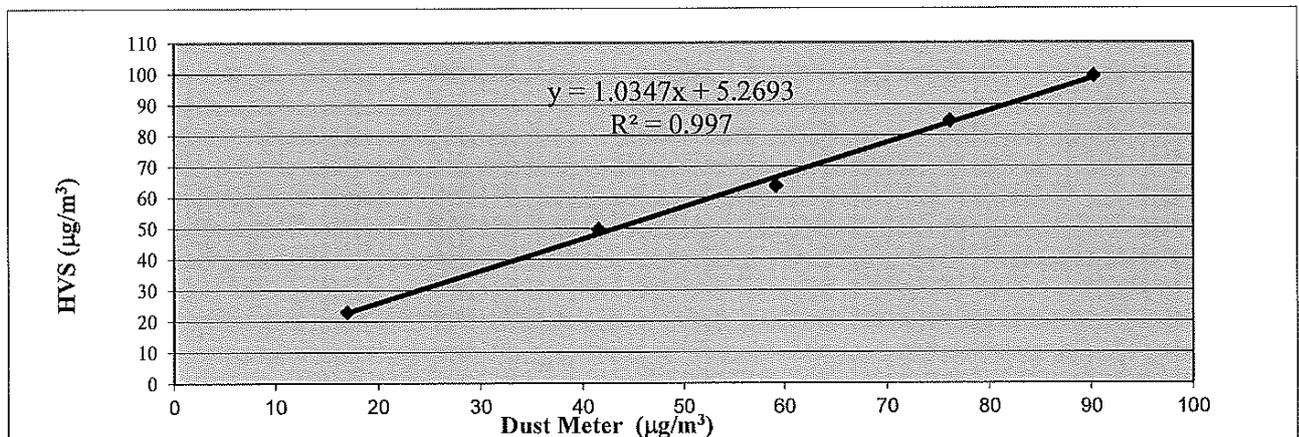
Calibration of 1 hr TSP		
Calibration Point	Dust Meter	HVS
	Mass Concentration ($\mu\text{g}/\text{m}^3$) X-axis	Mass concentration ($\mu\text{g}/\text{m}^3$) Y-axis
1	17	23
2	42	50
3	59	64
4	76	85
5	90	99
Average	56.9	64.1

By Linear Regression of Y on X
 Slope, mw = 1.0347 Intercept, bw = 5.2693
 Correlation coefficient* = 0.9985

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particulate Concentration by High Volume Sampler ($\mu\text{g}/\text{m}^3$)	64.1
Particulate Concentration by Dust Meter ($\mu\text{g}/\text{m}^3$)	56.9
Measureing time, (min)	60

Set Correlation Factor, SCF
 SCF = [K=High Volume Sampler / Dust Meter, ($\mu\text{g}/\text{m}^3$)] 1.127



QC Reviewer: LBV MAN HAZ Signature: he Date: 14/9/2024

TEST REPORT

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

Test Report No.:	41441B
Date of Issue:	2024-11-18
Date Received:	2024-11-16
Date Tested:	2024-11-16
Date Completed:	2024-11-18
Next Due Date:	2025-01-17
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. : 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%

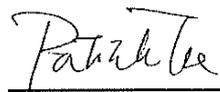
Test Specifications & Methodology:

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)	1.135
-------------------------	-------

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



PATRICK TSE
General Manager

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:	16-Nov-24	16-Nov-24
Location:	Wellab Office (Calibration Room)	

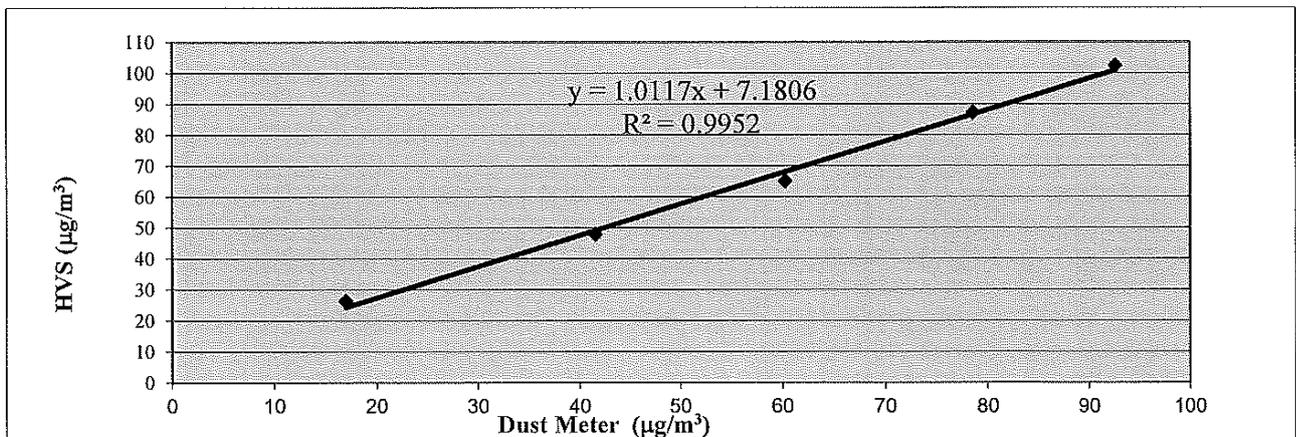
Calibration of 1 hr TSP		
Calibration Point	Dust Meter	HVS
	Mass Concentration ($\mu\text{g}/\text{m}^3$) X-axis	Mass concentration ($\mu\text{g}/\text{m}^3$) Y-axis
1	17	26
2	42	48
3	60	65
4	79	87
5	93	103
Average	58.0	65.9

By Linear Regression of Y on X
 Slope, mw = 1.0117 Intercept, bw = 7.1806
 Correlation coefficient* = 0.9976

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particulate Concentration by High Volume Sampler ($\mu\text{g}/\text{m}^3$)	65.9
Particulate Concentration by Dust Meter ($\mu\text{g}/\text{m}^3$)	58.0
Measureing time, (min)	60

Set Correlation Factor, SCF
 SCF = | K=High Volume Sampler / Dust Meter, ($\mu\text{g}/\text{m}^3$) | 1.135



QC Reviewer: LEE MAN HEZ Signature: hee Date: 17/11/24

TEST REPORT

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

Test Report No.:	41441C
Date of Issue:	2024-11-18
Date Received:	2024-11-16
Date Tested:	2024-11-16
Date Completed:	2024-11-18
Next Due Date:	2025-01-17

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. : X23810
 Flow rate : 0.1 cfm
 Zero Count Test : 0 count per 1 minute
 Equipment No. : WA-01-04

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

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

Dust Meter	Dust Meter	High Volume Sampler
Equipment No.:	WA-01-04	WA-12-09
Model No. :	AEROCET-831	TE-5170
Serial No.	X23810	2203
Calibration Date:	16-Nov-24	16-Nov-24
Location:	Wellab Office (Calibration Room)	

Calibration of 1 hr TSP		
Calibration Point	Dust Meter	HVS
	Mass Concentration ($\mu\text{g}/\text{m}^3$) X-axis	Mass concentration ($\mu\text{g}/\text{m}^3$) Y-axis
1	20	26
2	43	48
3	57	65
4	81	87
5	93	103
Average	58.7	65.9

By Linear Regression of Y on X

Slope, $m_w =$ 1.0462

Intercept, $b_w =$ 4.4871

Correlation coefficient* = 0.9987

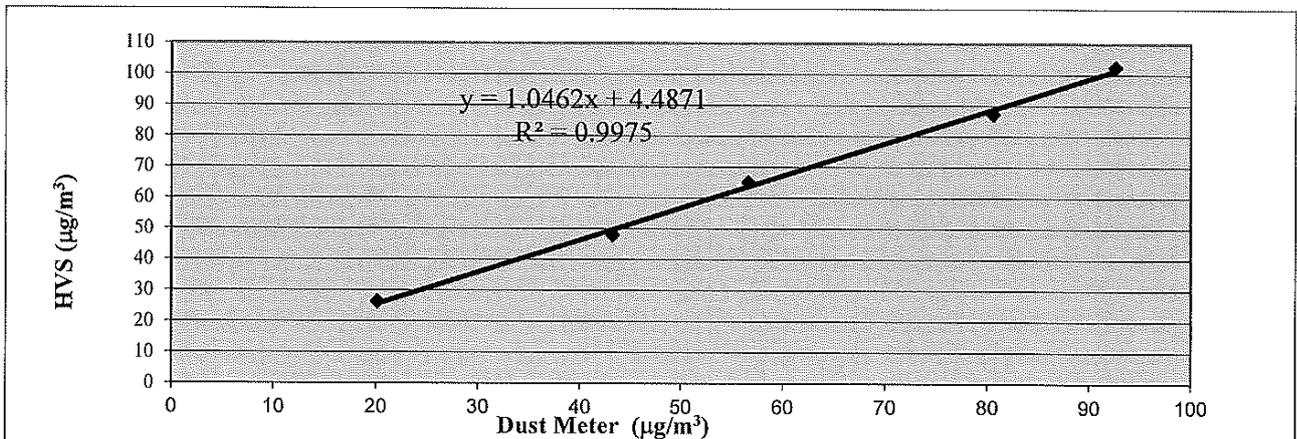
*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particulate Concentration by High Volume Sampler ($\mu\text{g}/\text{m}^3$)	65.9
Particulate Concentration by Dust Meter ($\mu\text{g}/\text{m}^3$)	58.7
Measuring time, (min)	60

Set Correlation Factor, SCF

SCF = | K=High Volume Sampler / Dust Meter, ($\mu\text{g}/\text{m}^3$) |

1.123



QC Reviewer:

LEE MAN HEI

Signature:

lee

Date:

17/11/24

TEST REPORT

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

Test Report No.:	41108
Date of Issue:	2024-10-28
Date Received:	2024-10-25
Date Tested:	2024-10-26
Date Completed:	2024-10-28
Next Due Date:	2024-12-27

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. : X24476
 Flow rate : 0.1 cfm
 Zero Count Test : 0 count per 1 minute
 Equipment No. : WA-01-05

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)	1.182
-------------------------	-------

PREPARED AND CHECKED BY:

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


PATRICK TSE
 General Manager

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

Dust Meter	Dust Meter	High Volume Sampler
Equipment No.:	WA-01-05	WA-12-09
Model No. :	AEROCET-831	TE-5170
Serial No.	X24476	2203
Calibration Date:	26-Oct-24	26-Oct-24
Location:	Wellab Office (Calibration Room)	

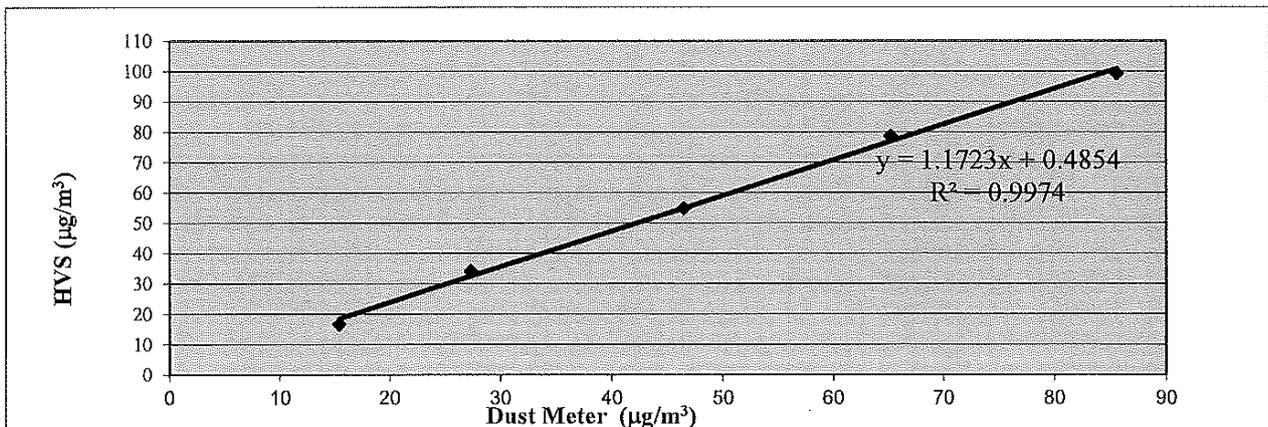
Calibration of 1 hr TSP		
Calibration Point	Dust Meter	HVS
	Mass Concentration ($\mu\text{g}/\text{m}^3$) X-axis	Mass concentration ($\mu\text{g}/\text{m}^3$) Y-axis
1	15	17
2	27	34
3	47	55
4	65	79
5	86	99
Average	48.0	56.8

By Linear Regression of Y on X
 Slope, mw = 1.1723 Intercept, bw = 0.4854
 Correlation coefficient* = 0.9987

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particulate Concentration by High Volume Sampler ($\mu\text{g}/\text{m}^3$)	56.8
Particulate Concentration by Dust Meter ($\mu\text{g}/\text{m}^3$)	48.0
Measuring time, (min)	60

Set Correlation Factor, SCF
 SCF = [K=High Volume Sampler / Dust Meter, ($\mu\text{g}/\text{m}^3$)] 1.182



QC Reviewer: LET MAN HBY Signature: hes Date: 26/10/2024

TEST REPORT

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

Test Report No.:	41108A
Date of Issue:	2024-10-28
Date Received:	2024-10-25
Date Tested:	2024-10-26
Date Completed:	2024-10-28
Next Due Date:	2024-12-27

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)	1.139
-------------------------	-------

PREPARED AND CHECKED BY:

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


PATRICK TSE
 General Manager

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:	26-Oct-24	26-Oct-24
Location:	Wellab Office (Calibration Room)	

Calibration of 1 hr TSP		
Calibration Point	Dust Meter	HVS
	Mass Concentration ($\mu\text{g}/\text{m}^3$) X-axis	Mass concentration ($\mu\text{g}/\text{m}^3$) Y-axis
1	13	17
2	28	34
3	47	55
4	71	79
5	89	99
Average	49.8	56.8

By Linear Regression of Y on X

Slope, $m_w =$ 1.0769 Intercept, $b_w =$ 3.1086

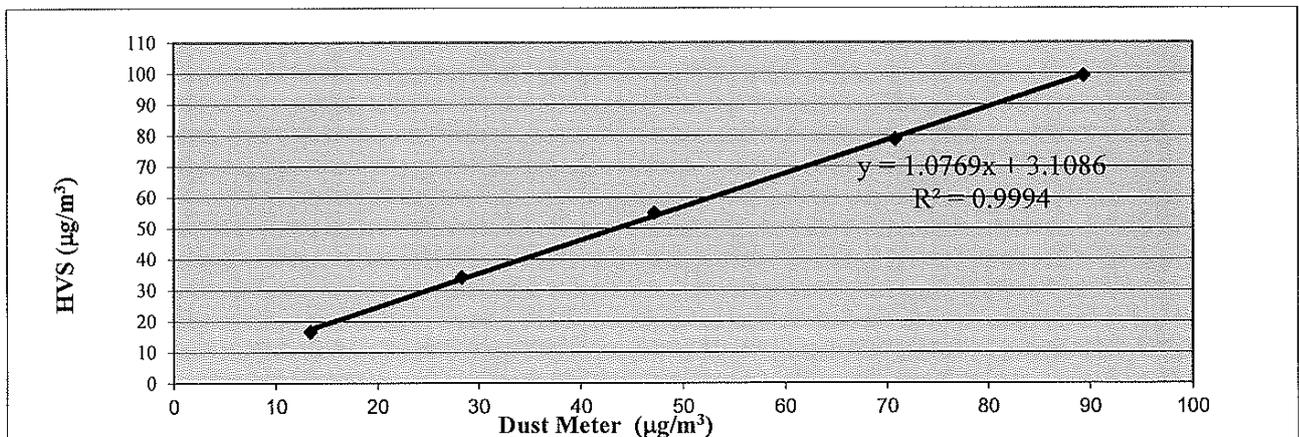
Correlation coefficient* = 0.9997

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particulate Concentration by High Volume Sampler ($\mu\text{g}/\text{m}^3$)	56.8
Particulate Concentration by Dust Meter ($\mu\text{g}/\text{m}^3$)	49.8
Measuring time, (min)	60

Set Correlation Factor, SCF

SCF = [$K = \text{High Volume Sampler} / \text{Dust Meter}, (\mu\text{g}/\text{m}^3)$] 1.139



QC Reviewer: LBJ MBW HBJ Signature: her Date: 26/10/2024

TEST REPORT

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

Test Report No.:	41108B
Date of Issue:	2024-10-28
Date Received:	2024-10-25
Date Tested:	2024-10-26
Date Completed:	2024-10-28
Next Due Date:	2024-12-27

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. : 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)	1.198
-------------------------	-------

PREPARED AND CHECKED BY:

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


PATRICK TSE
 General Manager

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:	26-Oct-24	26-Oct-24
Location:	Wellab Office (Calibration Room)	

Calibration of 1 hr TSP		
Calibration Point	Dust Meter	HVS
	Mass Concentration ($\mu\text{g}/\text{m}^3$) X-axis	Mass concentration ($\mu\text{g}/\text{m}^3$) Y-axis
1	11	17
2	24	34
3	46	55
4	69	79
5	87	99
Average	47.4	56.8

By Linear Regression of Y on X

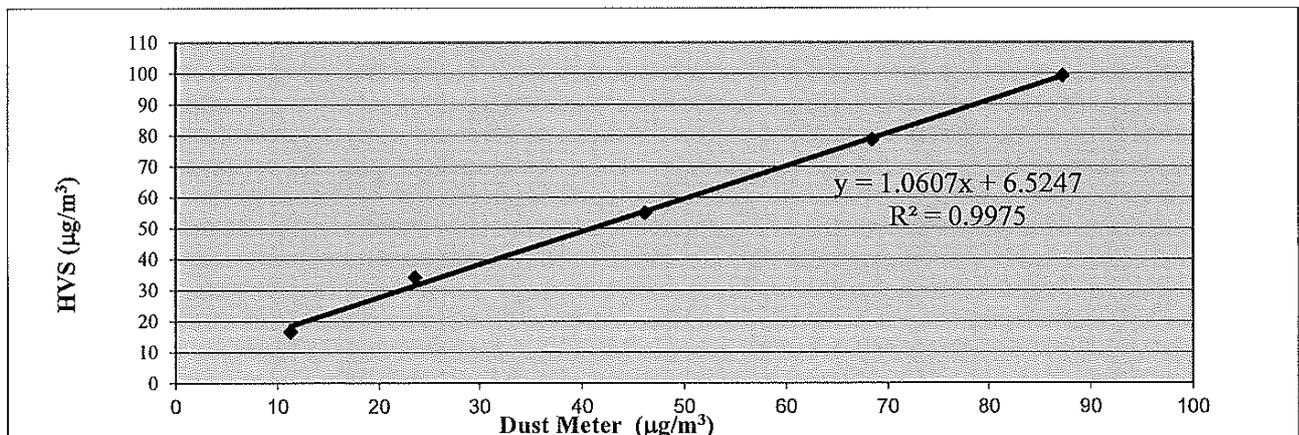
Slope, mw = 1.0607 Intercept, bw = 6.5247
Correlation coefficient* = 0.9988

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particulate Concentration by High Volume Sampler ($\mu\text{g}/\text{m}^3$)	56.8
Particulate Concentration by Dust Meter ($\mu\text{g}/\text{m}^3$)	47.4
Measuring time, (min)	60

Set Correlation Factor, SCF

SCF = [K=High Volume Sampler / Dust Meter, ($\mu\text{g}/\text{m}^3$)] 1.198



QC Reviewer: LBB MAN 482 Signature: he Date: 26/10/2024

TEST REPORT

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

Test Report No.:	41108C
Date of Issue:	2024-10-28
Date Received:	2024-10-25
Date Tested:	2024-10-26
Date Completed:	2024-10-28
Next Due Date:	2024-12-27

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. : 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)	1.265
-------------------------	-------

PREPARED AND CHECKED BY:

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


 PATRICK TSE
 Laboratory Manager

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:	26-Oct-24	26-Oct-24
Location:	Wellab Office (Calibration Room)	

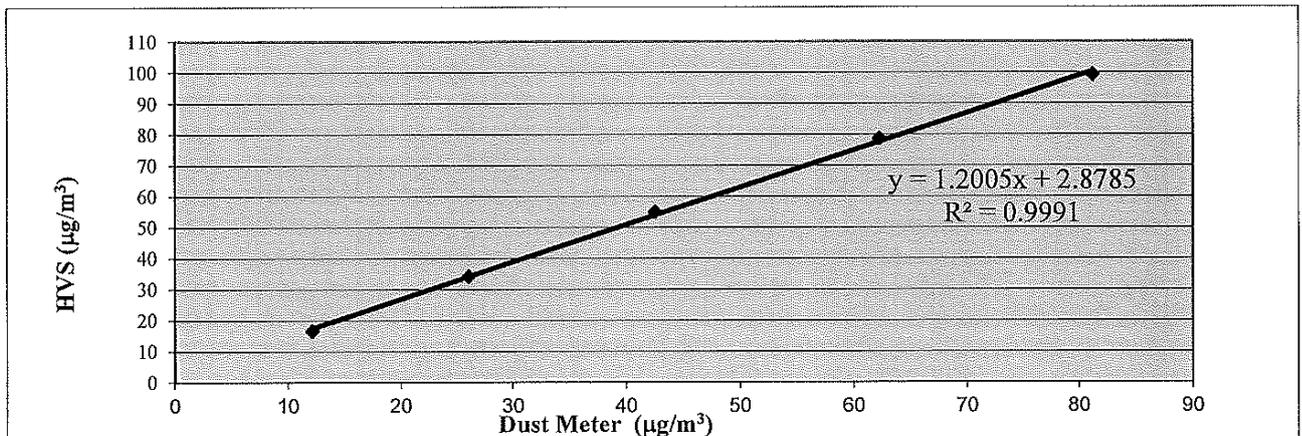
Calibration of 1 hr TSP		
Calibration Point	Dust Meter	HVS
	Mass Concentration ($\mu\text{g}/\text{m}^3$) X-axis	Mass concentration ($\mu\text{g}/\text{m}^3$) Y-axis
1	12	17
2	26	34
3	43	55
4	62	79
5	81	99
Average	44.9	56.8

By Linear Regression of Y on X
 Slope, mw = 1.2005 Intercept, bw = 2.8785
 Correlation coefficient* = 0.9995

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particulate Concentration by High Volume Sampler ($\mu\text{g}/\text{m}^3$)	56.8
Particulate Concentration by Dust Meter ($\mu\text{g}/\text{m}^3$)	44.9
Measuring time, (min)	60

Set Correlation Factor, SCF
 $\text{SCF} = [K = \text{High Volume Sampler} / \text{Dust Meter}, (\mu\text{g}/\text{m}^3)]$ 1.265



QC Reviewer: LEE MAN HEE Signature: Lee Date: 26/10/2024

TEST REPORT

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

Test Report No.:	41108D
Date of Issue:	2024-10-28
Date Received:	2024-10-25
Date Tested:	2024-10-26
Date Completed:	2024-10-28
Next Due Date:	2024-12-27

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. : 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)	1.212
-------------------------	-------

PREPARED AND CHECKED BY:

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


PATRICK TSE
General Manager

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:	26-Oct-24	26-Oct-24
Location:	Wellab Office (Calibration Room)	

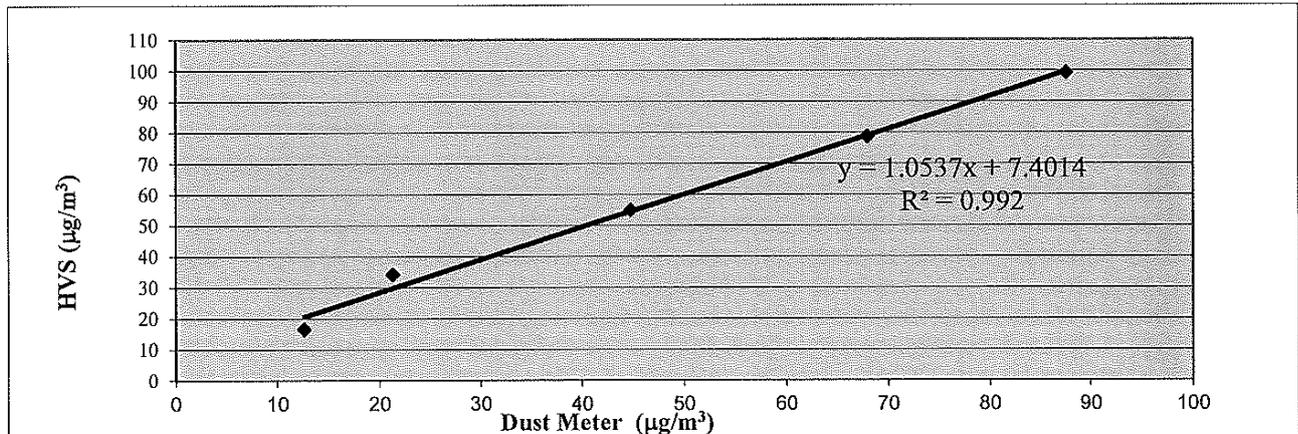
Calibration of 1 hr TSP		
Calibration Point	Dust Meter	HVS
	Mass Concentration ($\mu\text{g}/\text{m}^3$) X-axis	Mass concentration ($\mu\text{g}/\text{m}^3$) Y-axis
1	13	17
2	21	34
3	45	55
4	68	79
5	88	99
Average	46.9	56.8

By Linear Regression of Y on X
 Slope, mw = 1.0537 Intercept, bw = 7.4014
 Correlation coefficient* = 0.9960

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particulate Concentration by High Volume Sampler ($\mu\text{g}/\text{m}^3$)	56.8
Particulate Concentration by Dust Meter ($\mu\text{g}/\text{m}^3$)	46.9
Measuring time, (min)	60

Set Correlation Factor, SCF
 $\text{SCF} = [K = \text{High Volume Sampler} / \text{Dust Meter}, (\mu\text{g}/\text{m}^3)]$ 1.212



QC Reviewer: LBB MAN HBR Signature: her Date: 26/10/2024



RECALIBRATION
DUE DATE:
January 15, 2025

Certificate of Calibration

Calibration Certification Information			
Cal. Date: January 15, 2024	Rootsmeter S/N: 438320	Ta: 294	°K
Operator: Jim Tisch		Pa: 755.4	mm Hg
Calibration Model #: TE-5025A	Calibrator S/N: 2896		

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.4360	3.3	2.00
2	3	4	1	1.0280	6.4	4.00
3	5	6	1	0.9150	8.0	5.00
4	7	8	1	0.8650	8.9	5.50
5	9	10	1	0.7190	12.8	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)	$\sqrt{\Delta H \left(\frac{Ta}{Pa} \right)}$ (y-axis)
1.0031	0.6985	1.4195	0.9956	0.6933	0.8823
0.9989	0.9717	2.0075	0.9915	0.9645	1.2477
0.9968	1.0894	2.2444	0.9894	1.0813	1.3950
0.9956	1.1510	2.3539	0.9882	1.1424	1.4631
0.9904	1.3775	2.8390	0.9831	1.3673	1.7645
QSTD	m=	2.08157	QA	m=	1.30344
	b=	-0.02865		b=	-0.01780
	r=	0.99981		r=	0.99981

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

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

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

**RSP - Respirable Suspended Particulates Sampler (PM 10)
Field Calibration Report**

Station KTN-DMS4A - Temporary Structure at Pak Shek Au
Date: 9-Oct-24
Model No. TE-6070X
Equipment No.: WA-11-03

File No. WMA20002/03/0027
Next Due Date: 8-Dec-24
Operator: HL
Serial No. 3225

Ambient Condition			
Temperature, Ta (K)	299.4	Pressure, Pa (mmHg)	763.8

Orifice Transfer Standard Information					
Serial No.:	2896	Slope, mc	0.0589	Intercept, bc	-0.02865
Last Calibration Date:	15-Jan-24	Next Calibration Date:	15-Jan-25		

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	12.8	12.80	61.20	61.18	1.73	8.5	1.91
2	10.9	10.90	56.51	56.50	1.60	7.4	1.79
3	8.6	8.60	50.25	50.24	1.42	6	1.61
4	7	7.00	45.39	45.37	1.28	4.8	1.44
5	3.3	3.30	31.31	31.31	0.89	2.7	1.08

By Linear Regression of Y on X

Slope, mw = 0.0282 Intercept, bw = 0.1845
Correlation coefficient* = 0.9989

- (1) DEL Hc = $\Delta H \times (Pa/760 \times 298/Ta)$
- (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 = $1.13 \times (760/Pa) \times (Ta/298) =$	<u>39.92</u>
Sampler Well - Type Manometer Set Point, SSP	
SSP = $[(mw \times SFR + bw)^2 \times Pa] / (Ta + 30) =$	<u>3.99</u>

Remarks: _____

Conducted by: Lee Man Hei
Checked by: Lee Man Hei

Signature: [Signature]
Signature: [Signature]

Date: 9/10/2024
Date: 9/10/24

TEST REPORT

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

Test Report No.:	39950B
Date of Issue:	2024-03-04
Date Received:	2024-03-01
Date Tested:	2024-03-01
Date Completed:	2024-03-04
Next Due Date:	2025-03-03

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

TEST REPORT

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

Test Report No.:	39950E
Date of Issue:	2024-03-04
Date Received:	2024-03-01
Date Tested:	2024-03-01
Date Completed:	2024-03-04
Next Due Date:	2025-03-03
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.	: 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
General Manager

TEST REPORT

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

Test Report No.:	39952A
Date of Issue:	2024-03-11
Date Received:	2024-03-08
Date Tested:	2024-03-08
Date Completed:	2024-03-11
Next Due Date:	2025-03-10

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.	: 580013
Equipment No.	: WN-01-09

Test conditions:

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

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

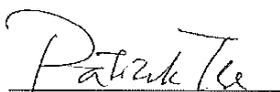
In-house method, according to manufacturer instruction manual

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

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

Page: 1 of 1

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

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

TEST REPORT

APPLICANT: Wellab Limited
(EM&A Department)
Room 1801, Technology Park,
18 On Lai Street,
Shatin, NT, Hong Kong

Test Report No.:	41118A
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

Page: 1 of 1

ATTN: Ms. Meiling Tang

Certificate of Calibration

Item for calibration:

Description : Acoustical Calibrator
Manufacturer : SVANTEK
Model No. : SV30A
Serial No. : 24780
Equipment No. : N-09-05

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

TEST REPORT

APPLICANT: Wellab Limited (EM&A)
RM 1808, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

Test Report No.:	41220A
Date of Issue:	2024-10-19
Date Received:	2024-10-18
Date Tested:	2024-10-18 to 2024-10-19
Date Completed:	2024-10-19

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

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


PATRICK TSE
General Manager

TEST REPORT

Test Report No.:	41220
Date of Issue:	2024-10-19
Date Received:	2024-10-18
Date Tested:	2024-10-18 to 2024-10-19
Date Completed:	2024-10-19
Page:	2 of 2

Certificate of Calibration

Results:

Conductivity performance checking

	Instrument Readings ($\mu\text{S}/\text{cm}$)	Acceptance Criteria	Comment
KCl stock solution (12890 $\mu\text{S}/\text{cm}$)	12900	12246-13534	Pass

Temperature performance checking

Reference thermometer- E431 Readings ($^{\circ}\text{C}$)	Instrument Readings ($^{\circ}\text{C}$)	Correction ($^{\circ}\text{C}$)	Comment
20.0	20.000	0.000	N/A

pH performance checking

	Instrument Readings (pH unit)	Acceptance Criteria	Comment
pH QC buffer 4.00	4.04	4.00 \pm 0.10	Pass
pH QC buffer 6.86	6.81	6.86 \pm 0.10	Pass
pH QC buffer 9.18	9.17	9.18 \pm 0.10	Pass

D.O. performance checking

	Instrument Readings (mg/L)	Acceptance Criteria	Comment
Zero DO solution	0.08	<0.1mg/L	Pass

Winkler Titration value (mg/L)	Instrument Readings (mg/L)	Acceptance Criteria	Comment
8.13	8.19	Difference between Titration value and instrument reading <0.2mg/L	Pass

Turbidity performance checking

Turbidity stock solution	Instrument Readings (NTU)	Acceptance Criteria	Comment
10 NTU	10.22	9.0-11.0	Pass
50 NTU	51.21	45.0-55.0	Pass
100 NTU	98.2	90.0-110.0	Pass

Depth performance checking

Water Depth	Instrument Readings (m)	Acceptance Criteria	Comment
0.5 meter	0.50	0.45-0.55	Pass

*****END OF REPORT*****

CALIBRATION CERTIFICATE

Product Name: Portable Biogas Analyzer

Model: IRCD4 Serial: M230814007

Ambient Temperature: 25°C Ambient Humidity: 45%

Atmospheric Pressure: 1018hpa Calibration Date: 07.16.2024

Recommended calibration period: CH₄, CO₂: 6-12 months; H₂S, O₂: 3-6 months

Calibration result:

Notice: Uncertainty of standard gases CH₄:±2%, CO₂:±2%, H₂S:±2%, O₂:±1%

Content	Standard gas	Testing result	Qualification “√” or “×”	Standards for each gas
CH ₄ (%vol)	50	49	√	(1-100)%vol: ±0.5%vol of displayed value
	70	69	√	
	100	100	√	
CO ₂ (%vol)	30	29	√	(0-100)%vol: ±5%vol of standard gas
	50	49	√	
	100	100	√	
O ₂ (%vol)	5.0	5.1	√	0.0-5.0:±0.5%vol 5.0-30.0:±0.9%vol
	15.0	15.1	√	
	25.0	24.9	√	
H ₂ S (ppm)	50	50	√	0-49:±3ppm 50-100:±10% (0-2000)ppm:±5FS
	80	81	√	
	199	199	√	

Calibration carried out by: Jinlin He Result reviewed by: He Yang

Note:

1. The device should be calibrated immediately once it is repaired well
2. During using, if any doubts regarding technical parameter are aroused, please calibration it again.



Certificate No.: CAL240391

CALIBRATION CERTIFICATE OF VIBRATION MEASURING DEVICE

Client : Fusion Engineering Service

Project : Calibration Services

Unit-Under-Test (UUT) Information

Description : Vibrograph
 Manufacturer : Instatel
 Model : Micromate
 Serial No. : UM6815
 Equipment No. : NA
 Specification limit : NA

Calibrator Information

Description : Reference accelerometer
 Equipment ID. : C-065-01
 Certificate No. : SXE202401245
 Due date : 12 Aug., 2029

Date received : 6 Sept., 2024

Date of calibration : 11 Sept., 2024

Next calibration date : 10 Sept., 2025

Calibration location : YSF Calibration Laboratory

Environmental conditions : 20.1-21.6°C / 51-65%RH

Test Procedure : In house method CAL084

Calibration Results

	Test point		Unit-under-test (UUT) reading (mm/s) _p	Error of measurement (%)
	Velocity (mm/s) _p	Frequency (Hz)		
Transverse	10	50	9.524	-4.8
	30	50	28.711	-4.3
	50	50	47.974	-4.1
Vertical	10	50	9.579	-4.2
	30	50	28.817	-3.9
	50	50	48.147	-3.7
Longitudinal	10	50	9.459	-5.4
	30	50	28.503	-5.0
	50	50	47.613	-4.8

The expanded uncertainty is 4% at a confidence level of at least 95% with a coverage factor of 2.

Remarks :

- The reported results are traceable to the International System of Units (S.I.) or recognized measurement standards.
- The values given in this Calibration Certificate only relate to the unit-under-test measured at the time of calibration. Any uncertainties quoted will not include allowances for the environmental changes, variation and shock during transportation, drift of UUT, or the capability of any other laboratory to repeat the calibration.
- UUT reading is a mean of three measurements.

Tested by : Lam Man Kwong Date : 11 Sept., 2024 Approved Signatory :  Date : 11 Sept. 2024

Form No.: C-R-084-001 Rev 0 (01/06/2018)

So Chi Kuen (Lab Manager)

**** End of Certificate ****

**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 (November 2024)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1-Nov	2-Nov
3-Nov	4-Nov	5-Nov	6-Nov	7-Nov	8-Nov	9-Nov
		<p>1hr TSP* X3 KTN-DMS4(B), FLN-DMS5</p> <p>24hr TSP* KTN-DMS4(B), FLN-DMS5A</p> <p>Noise CP-KTN-NMS2, CP-KTN-NMS3, CP-KTN-NMS5, CP-KTN-NMS6</p> <p>24hr RSP (Arsenic) KTN-DMS4A</p> <p>24hr TSP FLN-DMS1, FLN-DMS3</p>	<p>1hr TSP* X3 FLN-DMS1, FLN-DMS3</p> <p>Noise CP-FLN-NMS1, CP-FLN-NMS2</p>			
10-Nov	11-Nov	12-Nov	13-Nov	14-Nov	15-Nov	16-Nov
	<p>1hr TSP* X3 KTN-DMS4(B), FLN-DMS5</p> <p>24hr TSP* KTN-DMS4(B), FLN-DMS5A</p> <p>Noise CP-KTN-NMS2, CP-KTN-NMS3, CP-KTN-NMS5, CP-KTN-NMS6</p> <p>24hr RSP (Arsenic) KTN-DMS4A</p> <p>24hr TSP FLN-DMS1, FLN-DMS3</p>	<p>1hr TSP* X3 FLN-DMS1, FLN-DMS3</p> <p>Noise CP-FLN-NMS1, CP-FLN-NMS2</p>			<p>1hr TSP* X3 KTN-DMS4(B), FLN-DMS5</p> <p>24hr TSP* KTN-DMS4(B), FLN-DMS5A</p> <p>24hr RSP (Arsenic) KTN-DMS4A</p> <p>24hr TSP FLN-DMS1, FLN-DMS3</p>	
17-Nov	18-Nov	19-Nov	20-Nov	21-Nov	22-Nov	23-Nov
	<p>1hr TSP* X3 FLN-DMS1, FLN-DMS3</p> <p>Noise CP-FLN-NMS1, CP-FLN-NMS2</p>			<p>1hr TSP* X3 KTN-DMS4(B), FLN-DMS5</p> <p>24hr TSP* KTN-DMS4(B), FLN-DMS5A</p> <p>Noise CP-KTN-NMS2, CP-KTN-NMS3, CP-KTN-NMS5, CP-KTN-NMS6</p> <p>24hr RSP (Arsenic) KTN-DMS4A</p> <p>24hr TSP FLN-DMS1, FLN-DMS3</p>	<p>1hr TSP* X3 FLN-DMS1, FLN-DMS3</p>	
24-Nov	25-Nov	26-Nov	27-Nov	28-Nov	29-Nov	30-Nov
			<p>1hr TSP* X3 KTN-DMS4(B), FLN-DMS5</p> <p>24hr TSP* KTN-DMS4(B), FLN-DMS5A</p> <p>Noise CP-KTN-NMS2, CP-KTN-NMS3, CP-KTN-NMS5, CP-KTN-NMS6</p> <p>24hr RSP (Arsenic) KTN-DMS4A</p> <p>24hr TSP FLN-DMS1, FLN-DMS3</p>	<p>1hr TSP* X3 FLN-DMS1, FLN-DMS3</p> <p>Noise CP-FLN-NMS1, CP-FLN-NMS2</p>		

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	--
	ND/2019/04	24hr TSP FLN-DMS5A - Good View New Village	--
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 exceeds 500m. 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 (November 2024)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1-Nov	2-Nov
					<u>Water Quality Monitoring</u> River Beas, River Indus and near Siu Hang San Tsuen Stream	
3-Nov	4-Nov	5-Nov	6-Nov	7-Nov	8-Nov	9-Nov
	<u>Water Quality Monitoring</u> River Beas, River Indus and near Siu Hang San Tsuen Stream		<u>Water Quality Monitoring</u> River Beas, River Indus and near Siu Hang San Tsuen Stream		<u>Water Quality Monitoring</u> River Beas, River Indus and near Siu Hang San Tsuen Stream	
10-Nov	11-Nov	12-Nov	13-Nov	14-Nov	15-Nov	16-Nov
	<u>Water Quality Monitoring</u> River Beas, River Indus and near Siu Hang San Tsuen Stream		<u>Water Quality Monitoring</u> River Beas, River Indus and near Siu Hang San Tsuen Stream		<u>Water Quality Monitoring</u> River Beas, River Indus and near Siu Hang San Tsuen Stream	
17-Nov	18-Nov	19-Nov	20-Nov	21-Nov	22-Nov	23-Nov
	<u>Water Quality Monitoring</u> River Beas, River Indus and near Siu Hang San Tsuen Stream		<u>Water Quality Monitoring</u> River Beas, River Indus and near Siu Hang San Tsuen Stream		<u>Water Quality Monitoring</u> River Beas, River Indus and near Siu Hang San Tsuen Stream	
24-Nov	25-Nov	26-Nov	27-Nov	28-Nov	29-Nov	30-Nov
	<u>Water Quality Monitoring</u> River Beas, River Indus and near Siu Hang San Tsuen Stream		<u>Water Quality Monitoring</u> River Beas, River Indus and near Siu Hang San Tsuen Stream		<u>Water Quality Monitoring</u> 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	<u>River Beas</u> SYR-CS1 - Upstream of river SYR-IS1 - Downstream of river
EP-473/2013/A	ND/2019/04	<u>River Indus and near Siu Hang San Tsuen Stream</u> 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 (November 2024)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1-Nov	2-Nov
3-Nov	4-Nov	5-Nov	6-Nov	7-Nov	8-Nov	9-Nov
	Monitoring of Measures to Minimise Disturbance to Water Birds in Ng Tung River <u>T1 T2</u> High tide: Start time: 11:00 Low tide: Start time: 8:30	Monitoring of Measures to Minimise Disturbance to Water Birds in Sheung Yue River and Long Valley <u>#T3 T5</u> High tide: Start time: 13:00 Low tide: Start time: 8:30				
10-Nov	11-Nov	12-Nov	13-Nov	14-Nov	15-Nov	16-Nov
		Monitoring of Measures to Minimise Disturbance to Water Birds in Ng Tung River <u>T1 T2</u> High tide: Start time: 8:30 Low tide: Start time: 13:00			Monitoring of Measures to Minimise Disturbance to Water Birds in Sheung Yue River and Long Valley <u>#T3 T5</u> High tide: Start time: 9:00 Low tide: Start time: 14:00	
17-Nov	18-Nov	19-Nov	20-Nov	21-Nov	22-Nov	23-Nov
		Monitoring of Measures to Minimise Disturbance to Water Birds in Ng Tung River <u>T1 T2</u> High tide: Start time: 13:00 Low tide: Start time: 9:00	Monitoring of Measures to Minimise Impacts on Ecological Sensitive Habitats from Disturbance and Pollution <u>T1, T6</u>	Monitoring of Measures to Minimise Disturbance to Water Birds in Sheung Yue River and Long Valley <u>T3 T5</u> High tide: Start time: 14:00 Low tide: Start time: 9:00		
24-Nov	25-Nov	26-Nov	27-Nov	28-Nov	29-Nov	30-Nov
		Monitoring of Measures to Minimise Impacts on Ecological Sensitive Habitats from Disturbance and Pollution <u>T3, T4, T5</u>		Monitoring of Measures to Minimise Disturbance to Water Birds in Ng Tung River <u>T1 T2</u> High tide: Start time: 9:00 Low tide: Start time: 13:00	Monitoring of Measures to Minimise Disturbance to Water Birds in Sheung Yue River and Long Valley <u>T3 T5</u> High tide: Start time: 9:00 Low tide: Start time: 14:00	

#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 November 2024

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1-Nov	2-Nov
3-Nov	4-Nov	5-Nov	6-Nov	7-Nov	8-Nov	9-Nov
	Site Inspection (ND/2019/05) Site Inspection (ND/2019/07)	Site Inspection (ND/2019/01) Site Inspection (ND/2019/03)	Site Inspection (ND/2019/02)	Site Inspection (ND/2019/04)		
10-Nov	11-Nov	12-Nov	13-Nov	14-Nov	15-Nov	16-Nov
		Site Inspection (ND/2019/04)	Site Inspection (ND/2019/02)	Site Inspection (ND/2019/01) Site Inspection (ND/2019/03)	Site Inspection (ND/2019/07) Site Inspection (ND/2019/05)	
17-Nov	18-Nov	19-Nov	20-Nov	21-Nov	22-Nov	23-Nov
	Site Inspection (ND/2019/07)	Site Inspection (ND/2019/01) Site Inspection (ND/2019/03)	Site Inspection (ND/2019/02)	Site Inspection (ND/2019/04) Site Inspection (ND/2019/05)		
24-Nov	25-Nov	26-Nov	27-Nov	28-Nov	29-Nov	30-Nov
	Site Inspection (ND/2019/05) Site Inspection (ND/2019/07)	Site Inspection (ND/2019/01) Site Inspection (ND/2019/03)	Site Inspection (ND/2019/02) Site Inspection (ND/2019/04)			

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 (December 2024)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1-Dec	2-Dec	3-Dec	4-Dec	5-Dec	6-Dec	7-Dec
		<p>1hr TSP* X3 KTN-DMS4(B), FLN-DMS5</p> <p>24hr TSP* KTN-DMS4(B), FLN-DMS5A</p> <p>Noise CP-KTN-NMS2, CP-KTN-NMS3, CP-KTN-NMS5, CP-KTN-NMS6</p> <p>24hr RSP (Arsenic) KTN-DMS4A</p> <p>24hr TSP FLN-DMS1, FLN-DMS3</p>	<p>1hr TSP* X3 FLN-DMS1, FLN-DMS3</p> <p>Noise CP-FLN-NMS1, CP-FLN-NMS2</p>			
8-Dec	9-Dec	10-Dec	11-Dec	12-Dec	13-Dec	14-Dec
	<p>1hr TSP* X3 KTN-DMS4(B), FLN-DMS5</p> <p>24hr TSP* KTN-DMS4(B), FLN-DMS5A</p> <p>Noise CP-KTN-NMS2, CP-KTN-NMS3, CP-KTN-NMS5, CP-KTN-NMS6</p> <p>24hr RSP (Arsenic) KTN-DMS4A</p> <p>24hr TSP FLN-DMS1, FLN-DMS3</p>	<p>1hr TSP* X3 FLN-DMS1, FLN-DMS3</p> <p>Noise CP-FLN-NMS1, CP-FLN-NMS2</p>			<p>1hr TSP* X3 KTN-DMS4(B), FLN-DMS5</p> <p>24hr TSP* KTN-DMS4(B), FLN-DMS5A</p> <p>24hr RSP (Arsenic) KTN-DMS4A</p> <p>24hr TSP FLN-DMS1, FLN-DMS3</p>	
15-Dec	16-Dec	17-Dec	18-Dec	19-Dec	20-Dec	21-Dec
	<p>1hr TSP* X3 FLN-DMS1, FLN-DMS3</p> <p>Noise CP-FLN-NMS1, CP-FLN-NMS2</p>			<p>1hr TSP* X3 KTN-DMS4(B), FLN-DMS5</p> <p>24hr TSP* KTN-DMS4(B), FLN-DMS5A</p> <p>Noise CP-KTN-NMS2, CP-KTN-NMS3, CP-KTN-NMS5, CP-KTN-NMS6</p> <p>24hr RSP (Arsenic) KTN-DMS4A</p> <p>24hr TSP FLN-DMS1, FLN-DMS3</p>	<p>1hr TSP* X3 FLN-DMS1, FLN-DMS3</p>	
22-Dec	23-Dec	24-Dec	25-Dec	26-Dec	27-Dec	28-Dec
	<p>1hr TSP* X3 KTN-DMS4(B), FLN-DMS5</p> <p>24hr TSP* KTN-DMS4(B), FLN-DMS5A</p> <p>Noise CP-KTN-NMS2, CP-KTN-NMS3, CP-KTN-NMS5, CP-KTN-NMS6</p> <p>24hr RSP (Arsenic) KTN-DMS4A</p> <p>24hr TSP FLN-DMS1, FLN-DMS3</p>	<p>1hr TSP* X3 FLN-DMS1, FLN-DMS3</p> <p>Noise CP-FLN-NMS1, CP-FLN-NMS2</p>			<p>1hr TSP* X3 KTN-DMS4(B), FLN-DMS5</p> <p>24hr TSP* KTN-DMS4(B), FLN-DMS5A</p> <p>24hr RSP (Arsenic) KTN-DMS4A</p> <p>24hr TSP FLN-DMS1, FLN-DMS3</p>	
29-Dec	30-Dec	31-Dec				
	<p>1hr TSP* X3 FLN-DMS1, FLN-DMS3</p> <p>Noise CP-FLN-NMS1, CP-FLN-NMS2</p>					

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	--
	ND/2019/04	24hr TSP FLN-DMS5A - Good View New Village	--
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 exceeds 500m. 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 (December 2024)**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1-Dec	2-Dec	3-Dec	4-Dec	5-Dec	6-Dec	7-Dec
	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	
8-Dec	9-Dec	10-Dec	11-Dec	12-Dec	13-Dec	14-Dec
	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	
15-Dec	16-Dec	17-Dec	18-Dec	19-Dec	20-Dec	21-Dec
	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	
22-Dec	23-Dec	24-Dec	25-Dec	26-Dec	27-Dec	28-Dec
	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	
29-Dec	30-Dec	31-Dec				
	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	<u>River Beas</u> SYR-CS1 - Upstream of river SYR-IS1 - Downstream of river
EP-473/2013/A	ND/2019/04	<u>River Indus and near Siu Hang San Tsuen Stream</u> 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 (December 2024)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1-Dec	2-Dec	3-Dec	4-Dec	5-Dec	6-Dec	7-Dec
	Monitoring of Measures to Minimise Disturbance to Water Birds in Ng Tung River T1 T2 High tide: Start time: 11:00 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: 8:00			Monitoring of Measures to Minimise Impacts on Ecological Sensitive Habitats from Disturbance and Pollution T1, T6	
8-Dec	9-Dec	10-Dec	11-Dec	12-Dec	13-Dec	14-Dec
				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	
15-Dec	16-Dec	17-Dec	18-Dec	19-Dec	20-Dec	21-Dec
		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: 9:00	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 Sheung Yue River and Long Valley T3 T5 High tide: Start time: 13:00 Low tide: Start time: 9:00		
22-Dec	23-Dec	24-Dec	25-Dec	26-Dec	27-Dec	28-Dec
	Monitoring of Measures to Minimise Disturbance to Water Birds in Sheung Yue River and Long Valley T3 T5 High tide: Start time: 15:00 Low tide: Start time: 11:00				Monitoring of Measures to Minimise Disturbance to Water Birds in Ng Tung River T1 T2 High tide: Start time: 16:00 Low tide: Start time: 13:00	
29-Dec	30-Dec	31-Dec				

The schedule may be changed due to unforeseen circumstances (adverse weather, etc)
#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
Tentative Weekly Site Inspection Schedule for December 2024

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1-Dec	2-Dec	3-Dec	4-Dec	5-Dec	6-Dec	7-Dec
		Site Inspection (ND/2019/01) Site Inspection (ND/2019/03) Site Inspection (ND/2019/05)	Site Inspection (ND/2019/02)	Site Inspection (ND/2019/04) Site Inspection (ND/2019/07)		
8-Dec	9-Dec	10-Dec	11-Dec	12-Dec	13-Dec	14-Dec
		Site Inspection (ND/2019/01) Site Inspection (ND/2019/03) Site Inspection (ND/2019/04)	Site Inspection (ND/2019/02)	Site Inspection (ND/2019/05)	Site Inspection (ND/2019/07)	
15-Dec	16-Dec	17-Dec	18-Dec	19-Dec	20-Dec	21-Dec
	Site Inspection (ND/2019/05) Site Inspection (ND/2019/07)		Site Inspection (ND/2019/02) Site Inspection (ND/2019/01) Site Inspection (ND/2019/03)	Site Inspection (ND/2019/04)		
22-Dec	23-Dec	24-Dec	25-Dec	26-Dec	27-Dec	28-Dec
	Site Inspection (ND/2019/05) Site Inspection (ND/2019/07) Site Inspection (ND/2019/04)	Site Inspection (ND/2019/01) Site Inspection (ND/2019/03) Site Inspection (ND/2019/02)				
29-Dec	30-Dec	31-Dec				
	Site Inspection (ND/2019/05) Site Inspection (ND/2019/07)	Site Inspection (ND/2019/01) Site Inspection (ND/2019/03)				

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 ($\mu\text{g}/\text{m}^3$)
6-Nov-24	13:00	Cloudy	94.7
6-Nov-24	14:00	Cloudy	108.5
6-Nov-24	15:00	Cloudy	104.4
12-Nov-24	13:00	Sunny	151.1
12-Nov-24	14:00	Sunny	158.4
12-Nov-24	15:00	Sunny	168.2
18-Nov-24	13:00	Cloudy	49.6
18-Nov-24	14:00	Cloudy	53.0
18-Nov-24	15:00	Cloudy	70.0
22-Nov-24	13:15	Cloudy	53.7
22-Nov-24	14:15	Cloudy	56.5
22-Nov-24	15:15	Cloudy	62.6
28-Nov-24	13:00	Sunny	86.8
28-Nov-24	14:00	Sunny	90.9
28-Nov-24	15:00	Sunny	92.7
		Minimum	49.6
		Maximum	168.2
		Average	93.4

Location FLN-DMS3 - House near Tong Hang			
Date	Time	Weather	Particulate Concentration ($\mu\text{g}/\text{m}^3$)
6-Nov-24	13:30	Cloudy	93.8
6-Nov-24	14:30	Cloudy	98.5
6-Nov-24	15:30	Cloudy	101.7
12-Nov-24	13:00	Sunny	128.1
12-Nov-24	14:00	Sunny	137.5
12-Nov-24	15:00	Sunny	103.9
18-Nov-24	13:00	Cloudy	40.1
18-Nov-24	14:00	Cloudy	55.5
18-Nov-24	15:00	Cloudy	61.9
22-Nov-24	13:30	Cloudy	63.4
22-Nov-24	14:30	Cloudy	74.1
22-Nov-24	15:30	Cloudy	69.4
28-Nov-24	13:00	Sunny	92.0
28-Nov-24	14:00	Sunny	76.5
28-Nov-24	15:00	Sunny	83.3
		Minimum	40.1
		Maximum	137.5
		Average	85.3

Appendix E - 1-hour TSP Monitoring Results

Location FLN-DMS5 - Noble Hill			
Date	Time	Weather	Particulate Concentration ($\mu\text{g}/\text{m}^3$)
5-Nov-24	8:00	Sunny	86.9
5-Nov-24	9:00	Sunny	75.3
5-Nov-24	10:00	Sunny	79.6
11-Nov-24	13:00	Sunny	35.3
11-Nov-24	14:00	Sunny	33.9
11-Nov-24	15:00	Sunny	36.6
15-Nov-24	9:00	Rainy	107.0
15-Nov-24	10:00	Rainy	78.8
15-Nov-24	11:00	Rainy	68.4
21-Nov-24	9:00	Cloudy	61.5
21-Nov-24	10:00	Cloudy	70.0
21-Nov-24	11:00	Cloudy	46.7
27-Nov-24	8:10	Sunny	50.6
27-Nov-24	9:10	Sunny	54.8
27-Nov-24	10:10	Sunny	59.0
		Minimum	33.9
		Maximum	107.0
		Average	63.0

Location KTN-DMS4(B) - Temporary Structure at Pak Shek Au			
Date	Time	Weather	Particulate Concentration ($\mu\text{g}/\text{m}^3$)
5-Nov-24	13:00	Sunny	49.2
5-Nov-24	14:00	Sunny	39.3
5-Nov-24	15:00	Sunny	35.1
11-Nov-24	9:00	Sunny	136.3
11-Nov-24	10:00	Sunny	198.4
11-Nov-24	11:00	Sunny	88.5
15-Nov-24	13:00	Rainy	83.2
15-Nov-24	14:00	Rainy	68.9
15-Nov-24	15:00	Rainy	51.0
21-Nov-24	13:00	Cloudy	39.6
21-Nov-24	14:00	Cloudy	44.6
21-Nov-24	15:00	Cloudy	45.9
27-Nov-24	9:00	Sunny	58.1
27-Nov-24	10:00	Sunny	72.0
27-Nov-24	11:00	Sunny	57.5
		Minimum	35.1
		Maximum	198.4
		Average	71.2

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. (µg/m ³)
			Initial	Final		Initial	Final		Initial	Final			
5-Nov-24	Sunny	298.1	4.3534	4.5297	0.1763	10179.2	10203.2	24.0	1.24	1.24	1.24	1786.5	98.7
11-Nov-24	Sunny	296.0	4.3384	4.5447	0.2063	10203.2	10227.2	24.0	1.21	1.21	1.21	1740.9	118.5
15-Nov-24	Cloudy	296.5	4.3377	4.3687	0.0310	10227.2	10251.2	24.0	1.21	1.20	1.20	1735.2	17.9
21-Nov-24	Cloudy	294.8	4.3192	4.3625	0.0433	10251.2	10275.2	24.0	1.21	1.22	1.21	1748.3	24.8
27-Nov-24	Sunny	290.1	4.3282	4.4540	0.1258	10275.2	10299.2	24.0	1.22	1.23	1.23	1764.0	71.3
												Min	17.9
												Max	118.5
												Average	66.2

Location FLN-DMS3 - House near Tong Hang

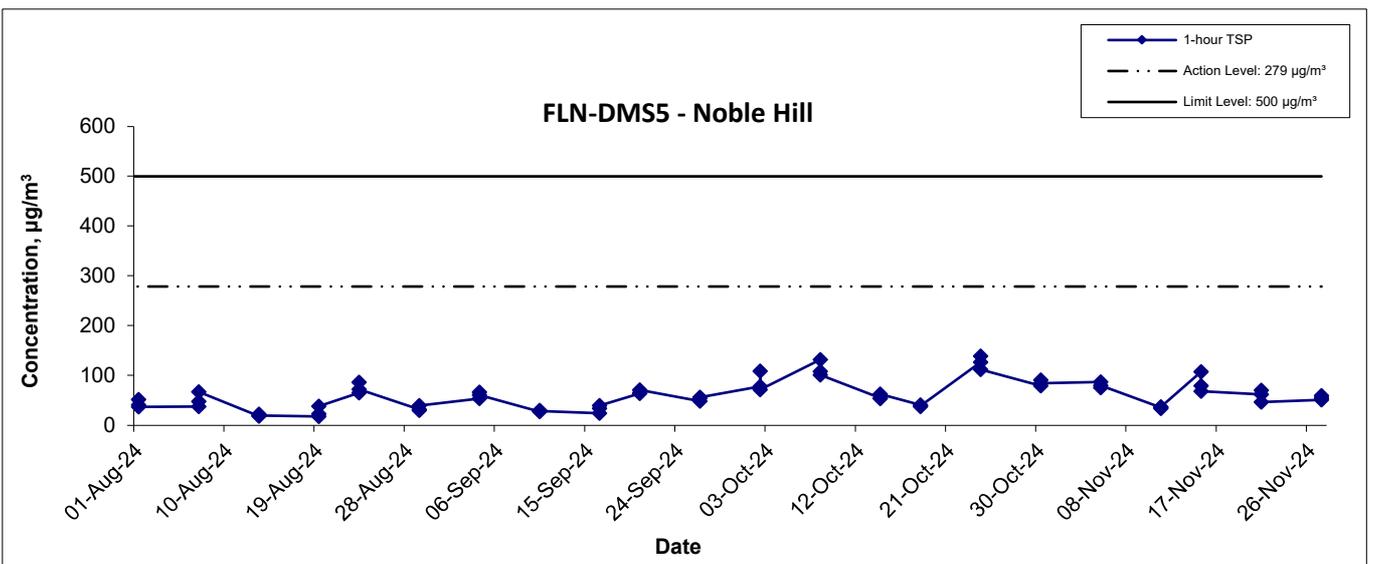
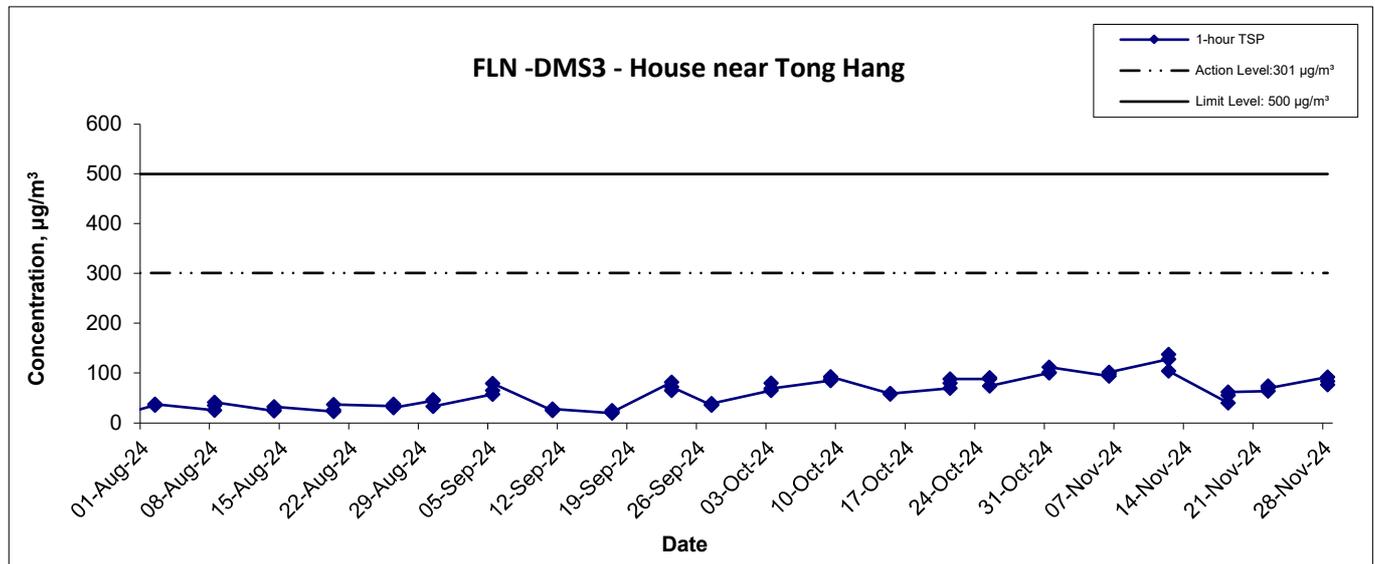
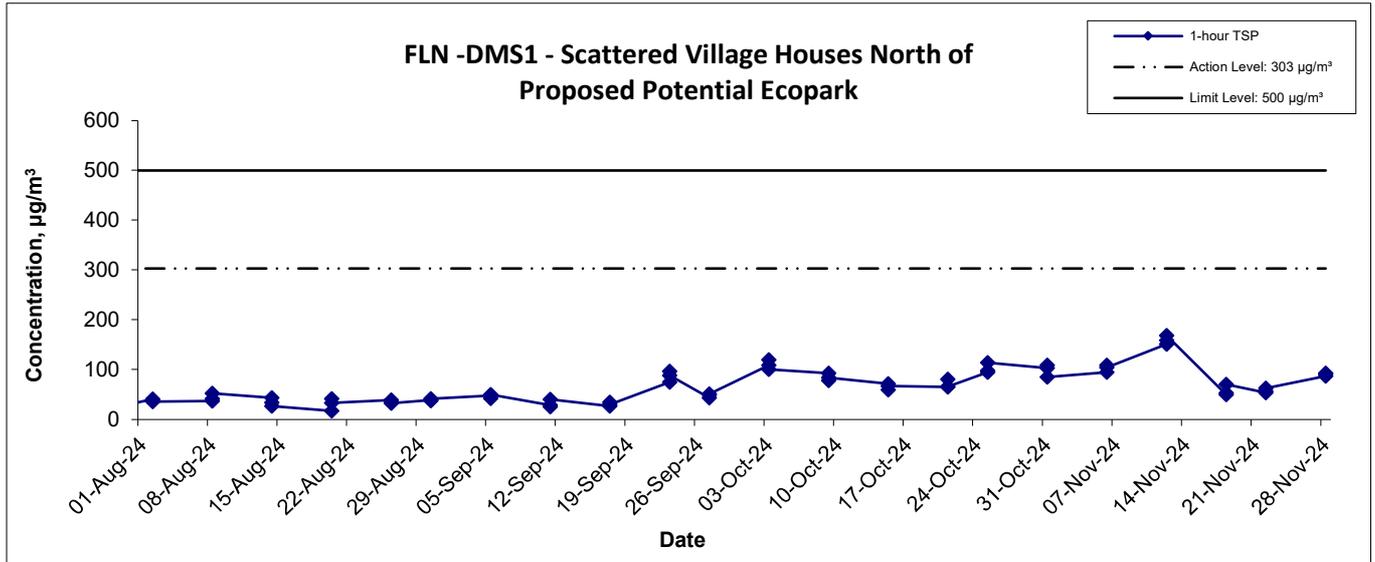
Start Date	Weather Condition	Air Temp. (K)	Filter Weight (g)		Particulate weight (g)	Elapse Time		Sampling Time(hrs.)	Flow Rate (m ³ /min.)		Av. flow (m ³ /min)	Total vol. (m ³)	Conc. (µg/m ³)
			Initial	Final		Initial	Final		Initial	Final			
5-Nov-24	Sunny	298.1	4.3243	4.4149	0.0906	11405.8	11429.8	24.0	1.24	1.24	1.24	1791.1	50.6
11-Nov-24	Sunny	296.0	4.3105	4.3865	0.0760	11430.0	11454.0	24.0	1.22	1.22	1.22	1755.3	43.3
15-Nov-24	Cloudy	296.5	4.3139	4.3345	0.0206	11454.0	11478.0	24.0	1.22	1.21	1.21	1749.5	11.8
21-Nov-24	Cloudy	294.8	4.3511	4.3852	0.0341	11478.0	11502.0	24.0	1.22	1.23	1.22	1762.8	19.3
27-Nov-24	Sunny	290.1	4.3157	4.4054	0.0897	11502.0	11526.0	24.0	1.24	1.24	1.24	1778.8	50.4
												Min	11.8
												Max	50.6
												Average	35.1

Appendix E - 24-hour TSP Monitoring Results

Location FLN-DMS5A - Good View New Village			
Date	Time	Weather	Particulate Concentration ($\mu\text{g}/\text{m}^3$)
5-Nov-24	9:00	Sunny	75.6
11-Nov-24	8:55	Sunny	44.0
15-Nov-24	9:00	Cloudy	110.6
21-Nov-24	9:50	Cloudy	45.0
27-Nov-24	8:35	Sunny	64.2
		Minimum	44.0
		Maximum	110.6
		Average	67.9

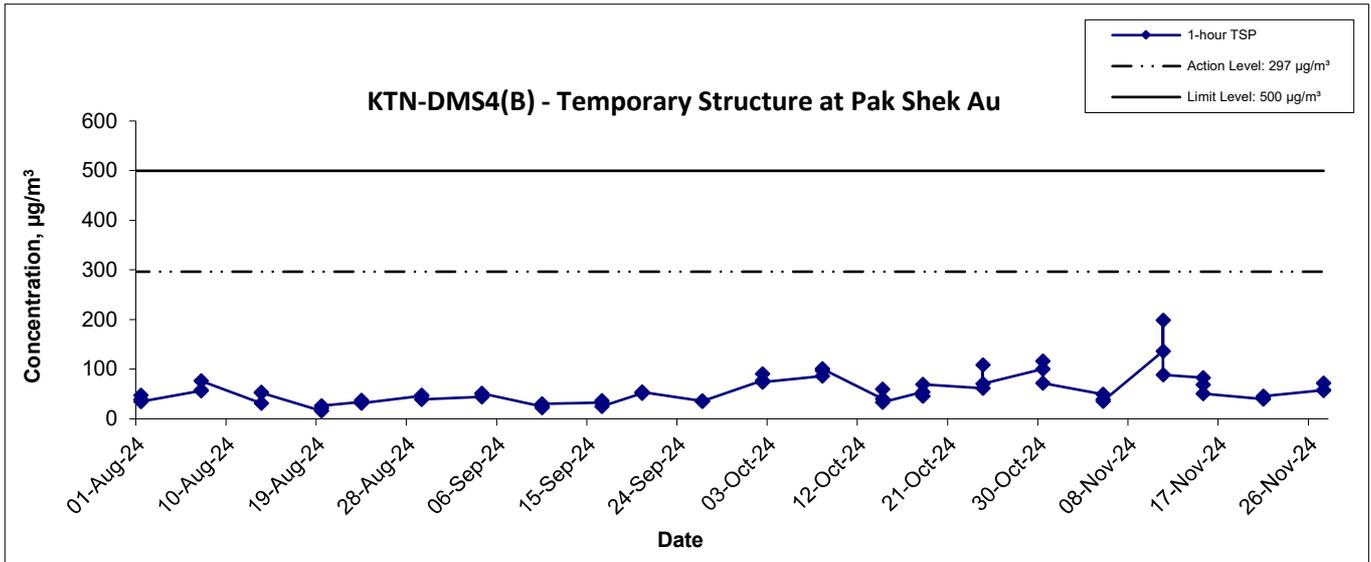
Location KTN-DMS4(B) - Temporary Structure at Pak Shek Au			
Date	Time	Weather	Particulate Concentration ($\mu\text{g}/\text{m}^3$)
5-Nov-24	9:00	Sunny	51.1
11-Nov-24	9:00	Sunny	67.1
15-Nov-24	9:00	Cloudy	61.7
21-Nov-24	11:45	Cloudy	45.9
27-Nov-24	9:00	Sunny	55.2
		Minimum	45.9
		Maximum	67.1
		Average	56.2

1-hr TSP Concentration Levels



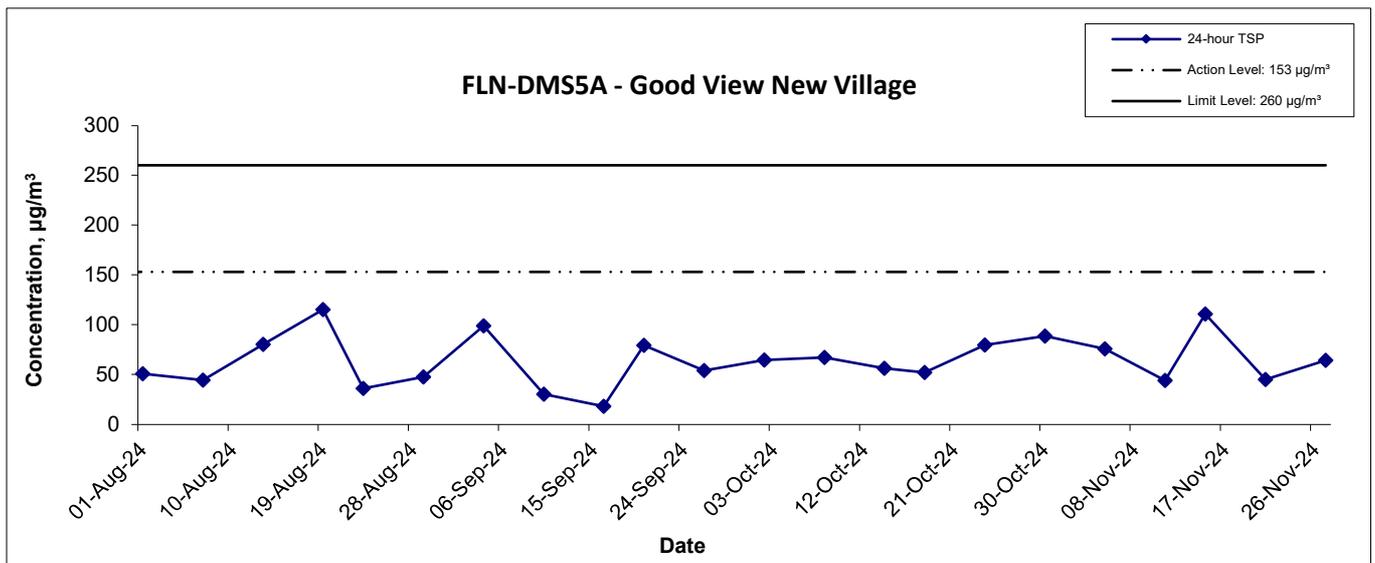
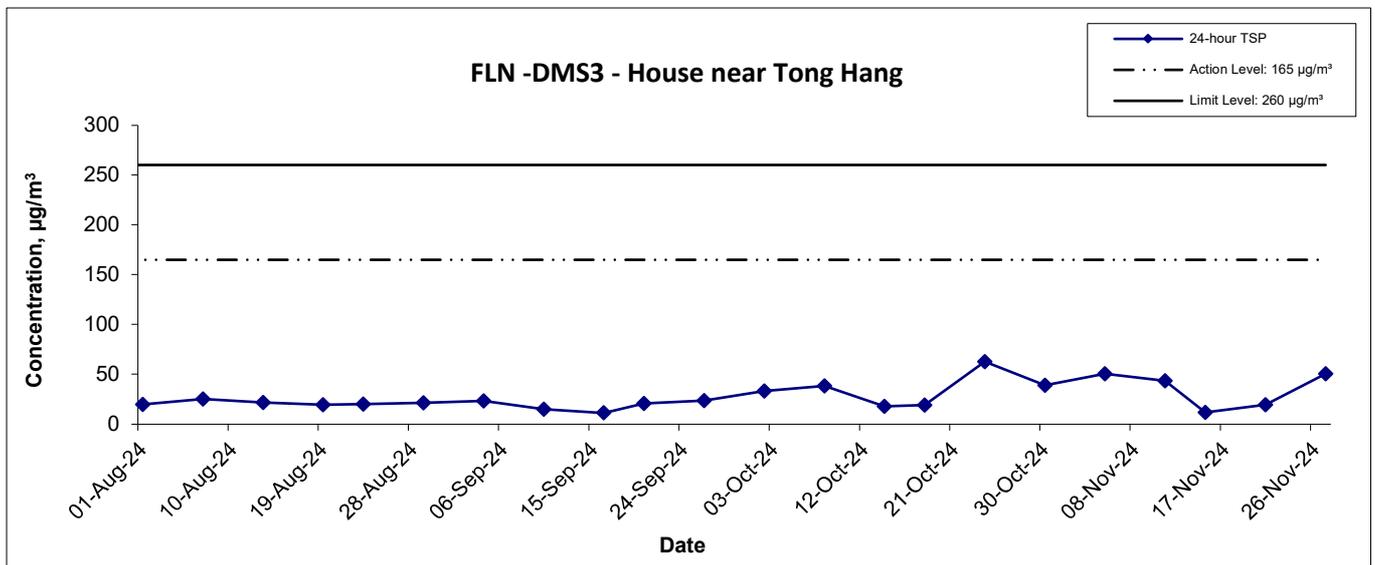
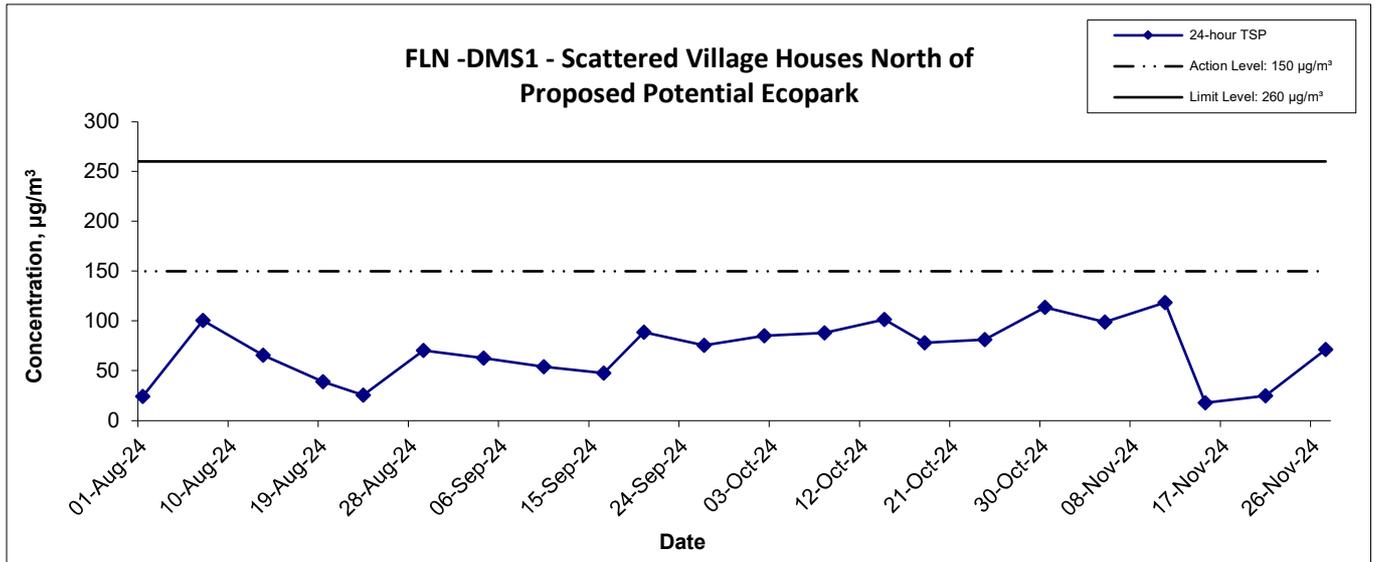
Title Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas Graphical Presentation of 1-hour TSP Monitoring Results	Scale	Project No.	 consulting . testing . research
	Date	Appendix	
	N.T.S	WMA20002	
	Nov 24	E	

1-hr TSP Concentration Levels



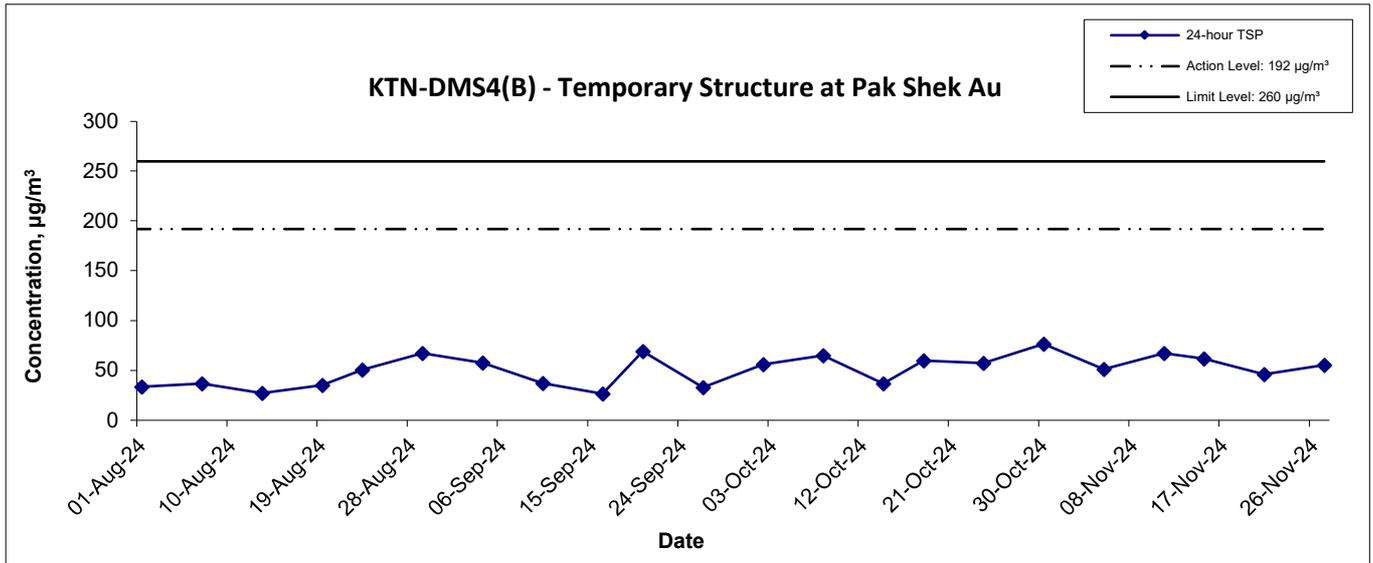
Title Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas Graphical Presentation of 1-hour TSP Monitoring Results	Scale N.T.S	Project No. WMA20002	 consulting . testing . research
	Date Nov 24	Appendix E	

24-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 24-hour TSP Monitoring Results	Scale N.T.S	Project No. WMA20002	 consulting . testing . research
	Date Nov 24	Appendix E	

24-hr TSP Concentration Levels

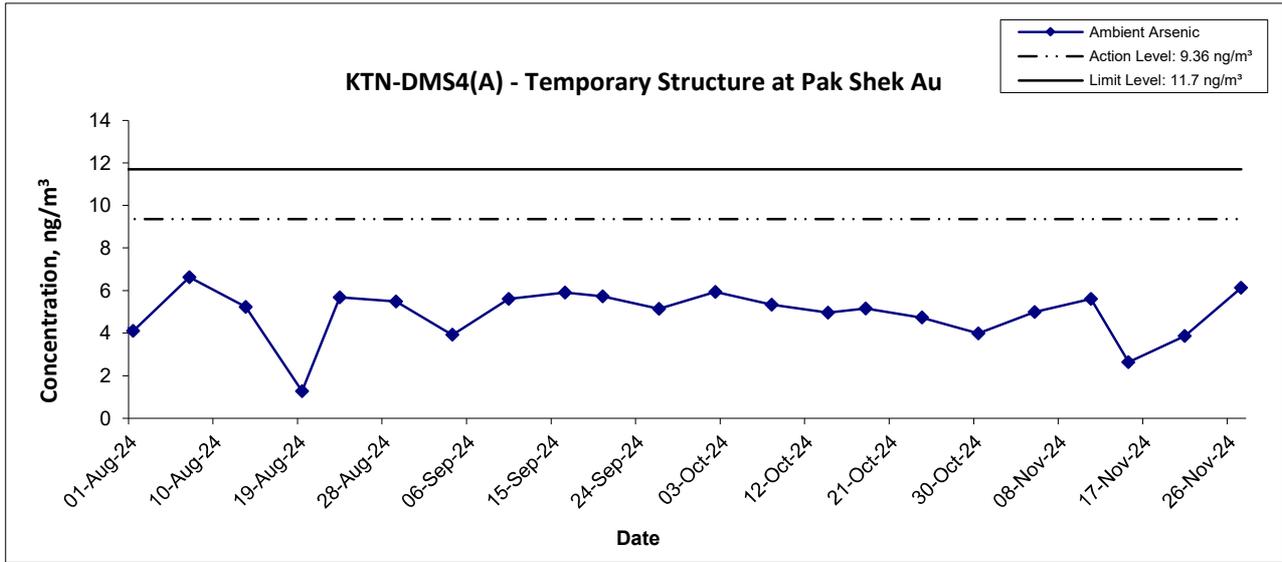


Title Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas Graphical Presentation of 24-hour TSP Monitoring Results	Scale N.T.S	Project No. WMA20002	consulting . testing . research
	Date Nov 24	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)
5-Nov-24	8.1	1624.5	4.99
11-Nov-24	9.1	1621.5	5.61
15-Nov-24	4.3	1627.4	2.64
21-Nov-24	6.2	1600.9	3.87
27-Nov-24	9.8	1598.7	6.13

Ambient Arsenic



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 Ambient Arsenic Monitoring Results	Scale	Project No.	consulting . testing . research
	N.T.S	WMA20002	
	Date	Appendix	
	Nov 24	E	

TEST REPORT

APPLICANT: Wellab (EM&A)
RM 1808, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

Report No.:	41119
Date of Issue:	2024-11-12
Date Received:	2024-11-06
Date Tested:	2024-11-06
Date Completed:	2024-11-12

ATTN: Ms Ivy Tam

Page: 1 of 1

Sample Description : 1 sample as received from customer said to be quartz filter
Laboratory No. : 41119
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:

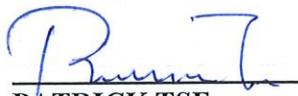
Sample ID	230525/084
Sample No.	41119-1
Arsenic (µg)	8.1

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

TEST REPORT

APPLICANT: Wellab (EM&A)
RM 1808, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

Report No.:	QC41119
Date of Issue:	2024-11-12
Date Received:	2024-11-06
Date Tested:	2024-11-06
Date Completed:	2024-11-12

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 (%)	100	80-120

Calibration check

Parameter	CCV	Acceptance
Arsenic (%)	96	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 41119

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


PATRICK TSE
General Manager

TEST REPORT

Report No.:	QC41119
Date of Issue:	2024-11-12
Date Received:	2024-11-06
Date Tested:	2024-11-06
Date Completed:	2024-11-12

Page: 2 of 2

**QC report:
Matrix Spike**

Parameter	Matrix Spike	Acceptance
Arsenic (%)	94	75-125

Filter Duplicate

Parameter	Filter Duplicate	Acceptance
Arsenic (%)	9	RPD _≤ 20%

Serial dilution check

Parameter	Serial dilution check	Acceptance
Arsenic (%)	99	90-110

Remarks: 1) <= less than
 2) N/A = Not applicable
 3) This report is the summary of quality control data for report number 41119

*****END OF REP ORT*****

TEST REPORT

APPLICANT: Wellab (EM&A)
RM 1808, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

Report No.:	41253
Date of Issue:	2024-11-19
Date Received:	2024-11-13
Date Tested:	2024-11-13
Date Completed:	2024-11-19

ATTN: Ms Ivy Tam

Page: 1 of 1

Sample Description : 1 sample as received from customer said to be quartz filter
Laboratory No. : 41253
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

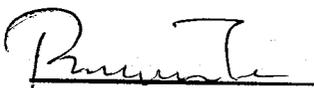
Results:

Sample ID	240901/035
Sample No.	41253-1
Arsenic (µg)	9.1

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

TEST REPORT

APPLICANT: Wellab (EM&A)
RM 1808, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

Report No.:	QC41253
Date of Issue:	2024-11-19
Date Received:	2024-11-13
Date Tested:	2024-11-13
Date Completed:	2024-11-19
Page:	1 of 2

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 (%)	103	90-110

Interference check solution A

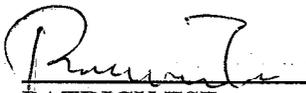
Parameter	ICS A	Acceptance
Arsenic (µg)	<0.036	<0.036

Interference check solution AB

Parameter	ICS AB	Acceptance
Arsenic (%)	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 41253

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


PATRICK TSE
General Manager

TEST REPORT

Report No.:	QC41253
Date of Issue:	2024-11-19
Date Received:	2024-11-13
Date Tested:	2024-11-13
Date Completed:	2024-11-19

Page: 2 of 2

**QC report:
Matrix Spike**

Parameter	Matrix Spike	Acceptance
Arsenic (%)	95	75-125

Filter Duplicate

Parameter	Filter Duplicate	Acceptance
Arsenic (%)	6	RPD ≤ 20%

Serial dilution check

Parameter	Serial dilution check	Acceptance
Arsenic (%)	92	90-110

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 41253

*****END OF REP ORT*****

TEST REPORT

APPLICANT: Wellab (EM&A)
RM 1808, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

Report No.:	41447
Date of Issue:	2024-11-22
Date Received:	2024-11-18
Date Tested:	2024-11-18
Date Completed:	2024-11-22

ATTN: Ms Ivy Tam

Page: 1 of 1

Sample Description : 1 sample as received from customer said to be quartz filter
Laboratory No. : 41447
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

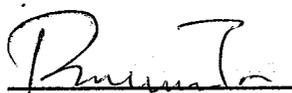
Results:

Sample ID	240801/100
Sample No.	41447-1
Arsenic (µg)	4.3

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

TEST REPORT

APPLICANT: Wellab (EM&A)
RM 1808, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

Report No.:	QC41447
Date of Issue:	2024-11-22
Date Received:	2024-11-18
Date Tested:	2024-11-18
Date Completed:	2024-11-22

ATTN: Ms Ivy Tam
QC report:
Method Blank

Page: 1 of 2

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

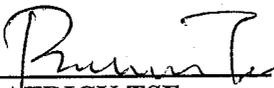
Parameter	ICS A	Acceptance
Arsenic (µg)	<0.036	<0.036

Interference check solution AB

Parameter	ICS AB	Acceptance
Arsenic (%)	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 41447

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


PATRICK TSE
General Manager

TEST REPORT

Report No.:	QC41447
Date of Issue:	2024-11-22
Date Received:	2024-11-18
Date Tested:	2024-11-18
Date Completed:	2024-11-22
Page:	2 of 2

**QC report:
Matrix Spike**

Parameter	Matrix Spike	Acceptance
Arsenic (%)	94	75-125

Filter Duplicate

Parameter	Filter Duplicate	Acceptance
Arsenic (%)	9	RPD ≤ 20%

Serial dilution check

Parameter	Serial dilution check	Acceptance
Arsenic (%)	95	90-110

- Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 41447

*****END OF REP ORT*****

TEST REPORT

APPLICANT: Wellab (EM&A)
RM 1808, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

Report No.:	41256
Date of Issue:	2024-11-28
Date Received:	2024-11-23
Date Tested:	2024-11-23
Date Completed:	2024-11-28

ATTN: Ms Ivy Tam

Page: 1 of 1

Sample Description : 1 sample as received from customer said to be quartz filter
Laboratory No. : 41256
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

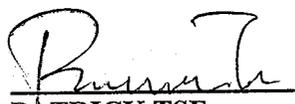
Results:

Sample ID	240901/068
Sample No.	41256-1
Arsenic (µg)	6.2

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

TEST REPORT

APPLICANT: Wellab (EM&A)
RM 1808, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

Report No.:	QC41256
Date of Issue:	2024-11-28
Date Received:	2024-11-23
Date Tested:	2024-11-23
Date Completed:	2024-11-28
Page:	1 of 2

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 (%)	99	90-110

Interference check solution A

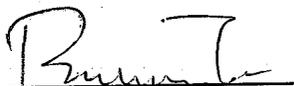
Parameter	ICS A	Acceptance
Arsenic (µg)	<0.036	<0.036

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 41256

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


PATRICK TSE
General Manager

TEST REPORT

Report No.:	QC41256
Date of Issue:	2024-11-28
Date Received:	2024-11-23
Date Tested:	2024-11-23
Date Completed:	2024-11-28
Page:	2 of 2

**QC report:
Matrix Spike**

Parameter	Matrix Spike	Acceptance
Arsenic (%)	91	75-125

Filter Duplicate

Parameter	Filter Duplicate	Acceptance
Arsenic (%)	7	RPD \leq 20%

Serial dilution check

Parameter	Serial dilution check	Acceptance
Arsenic (%)	96	90-110

Remarks: 1) \leq less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 41256

*****END OF REP ORT*****

TEST REPORT

APPLICANT: Wellab (EM&A)
RM 1808, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

Report No.:	41440
Date of Issue:	2024-12-05
Date Received:	2024-11-28
Date Tested:	2024-11-28
Date Completed:	2024-12-05

ATTN: Ms Ivy Tam

Page: 1 of 1

Sample Description : 1 sample as received from customer said to be quartz filter
Laboratory No. : 41440
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

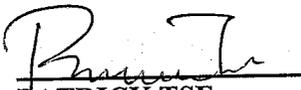
Results:

Sample ID	240901/042
Sample No.	41440-1
Arsenic (µg)	9.8

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

TEST REPORT

APPLICANT: Wellab (EM&A)
RM 1808, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong Kong

Report No.:	QC41440
Date of Issue:	2024-12-05
Date Received:	2024-11-28
Date Tested:	2024-11-28
Date Completed:	2024-12-05

ATTN: Ms Ivy Tam
QC report:
Method Blank

Page: 1 of 2

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 (%)	91	80-120

Calibration check

Parameter	CCV	Acceptance
Arsenic (%)	98	90-110

Interference check solution A

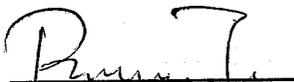
Parameter	ICS A	Acceptance
Arsenic (µg)	<0.036	<0.036

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 41440

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


PATRICK TSE
General Manager

TEST REPORT

Report No.:	QC41440
Date of Issue:	2024-12-05
Date Received:	2024-11-28
Date Tested:	2024-11-28
Date Completed:	2024-12-05
Page:	2 of 2

QC report:
Matrix Spike

Parameter	Matrix Spike	Acceptance
Arsenic (%)	94	75-125

Filter Duplicate

Parameter	Filter Duplicate	Acceptance
Arsenic (%)	9	RPD ≤ 20%

Serial dilution check

Parameter	Serial dilution check	Acceptance
Arsenic (%)	100	90-110

Remarks: 1) <= less than
 2) N/A = Not applicable
 3) This report is the summary of quality control data for report number 41440

*****END OF REP ORT*****

**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}
6-Nov-24	Cloudy	13:10	69.4	71.6	63.2	69.1	69.9
		13:15	68.7	69.8	62.9		
		13:20	68.9	70.4	63.1		
		13:25	69.2	70.8	62.9		
		13:30	69.6	71.5	63.4		
12-Nov-24	Sunny	13:35	68.8	69.5	62.7	67.8	
		14:10	66.9	69.5	61.2		
		14:15	67.0	70.5	59.4		
		14:20	68.8	72.3	61.1		
		14:25	67.6	71.0	60.4		
18-Nov-24	Cloudy	14:30	66.6	70.9	59.5	67.0	
		14:35	69.0	73.5	59.2		
		13:45	68.2	71.5	60.7		
		13:50	65.9	68.6	56.1		
		13:55	65.6	70.2	55.4		
28-Nov-24	Sunny	14:00	69.2	72.1	56.6	68.0	
		14:05	65.7	69.2	58.8		
		14:10	65.6	69.9	56.0		
		14:15	67.5	71.9	57.2		
		14:20	66.8	70.4	59.5		

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}
6-Nov-24	Cloudy	14:00	68.5	70.1	67.3	67.3	59.6
		14:05	68.4	69.4	67.1		
		14:10	66.7	67.6	65.9		
		14:15	66.9	67.5	66.0		
		14:20	67.0	68.4	65.5		
12-Nov-24	Sunny	14:25	65.9	66.6	65.3	67.0	
		13:15	65.7	66.3	65.0		
		13:20	68.9	69.5	66.0		
		13:25	68.3	69.6	65.3		
		13:30	66.2	67.6	64.5		
18-Nov-24	Cloudy	13:35	65.6	66.4	64.4	69.6	
		13:40	66.0	67.0	63.8		
		13:00	66.6	67.8	65.4		
		13:05	68.9	70.7	66.4		
		13:10	69.4	70.4	68.2		
28-Nov-24	Sunny	13:15	70.9	72.3	68.8	66.4	
		13:20	70.7	71.8	69.5		
		13:25	69.6	70.9	68.4		
		13:10	67.5	69.2	65.5		
		13:15	66.4	67.8	65.0		

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}
5-Nov-24	Sunny	15:45	56.0	56.8	50.2	56.8	58.6
		15:50	55.4	58.8	48.1		
		15:55	49.9	51.9	47.4		
		16:00	60.3	60.5	47.6		
		16:05	57.2	61.0	47.9		
		16:10	56.5	61.0	47.0		
11-Nov-24	Sunny	13:05	53.4	54.0	50.8	58.8	
		13:10	54.1	55.7	51.1		
		13:15	58.1	61.1	53.4		
		13:20	61.9	66.1	54.3		
		13:25	60.4	64.4	53.2		
21-Nov-24	Cloudy	13:30	59.0	62.5	52.9	56.0	
		10:35	54.1	54.7	53.9		
		10:40	52.8	53.9	52.4		
		10:45	56.8	59.2	54.2		
		10:50	57.5	57.7	57.4		
		10:55	54.6	54.8	54.2		
27-Nov-24	Sunny	11:00	57.8	58.4	52.3	60.8	
		14:30	60.8	65.0	49.2		
		14:35	59.5	63.3	50.2		
		14:40	61.4	65.3	51.7		
		14:45	58.8	61.8	50.7		
		14:50	58.0	63.0	50.1		
		14:55	63.7	66.2	53.2		

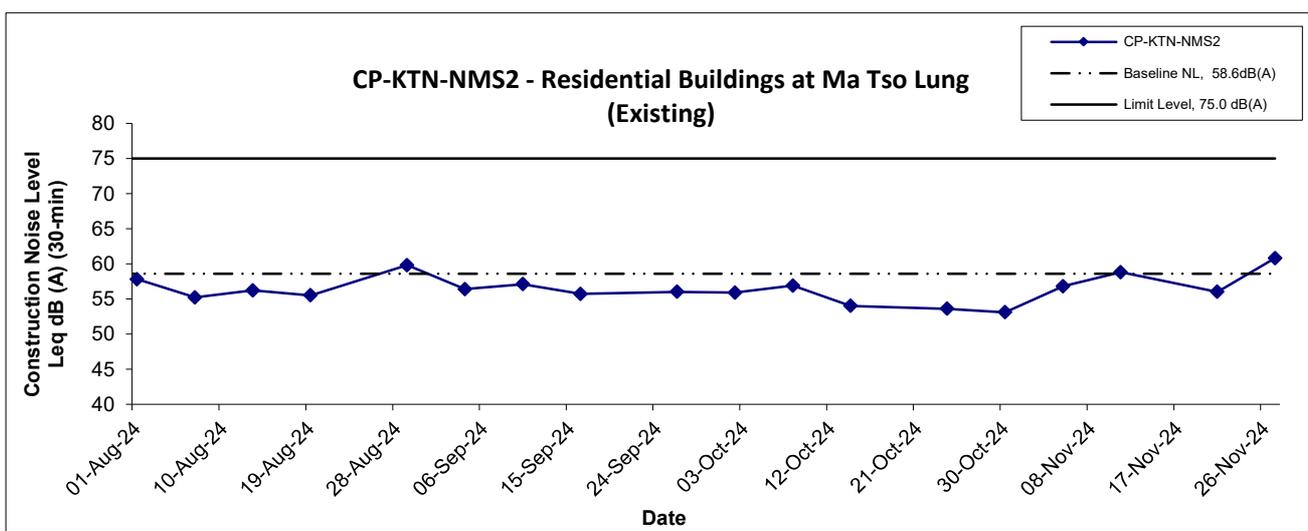
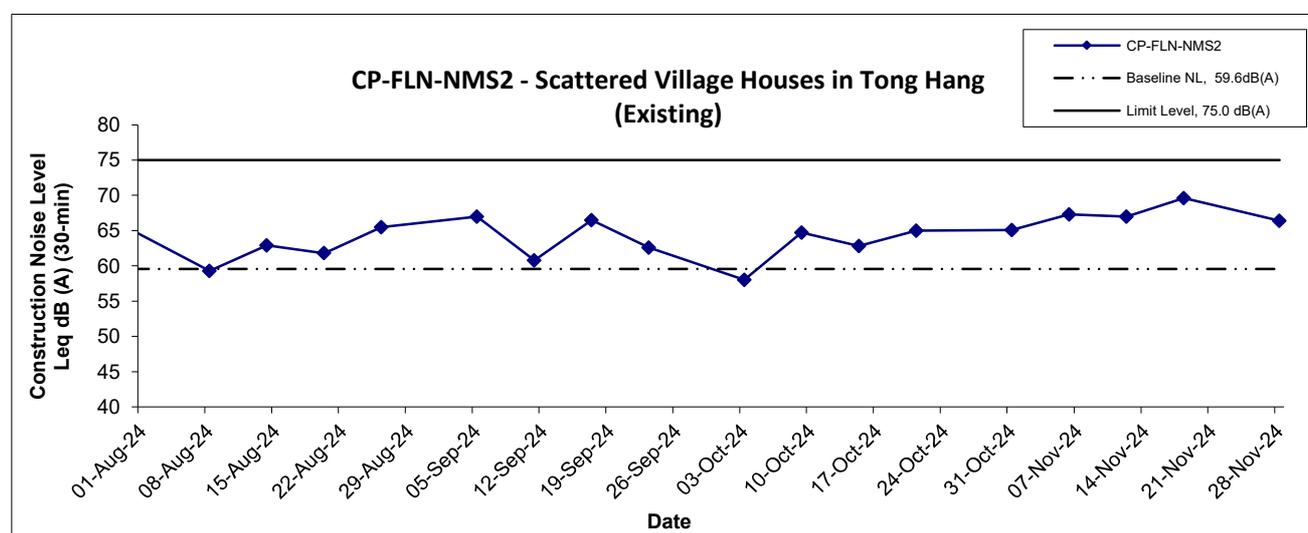
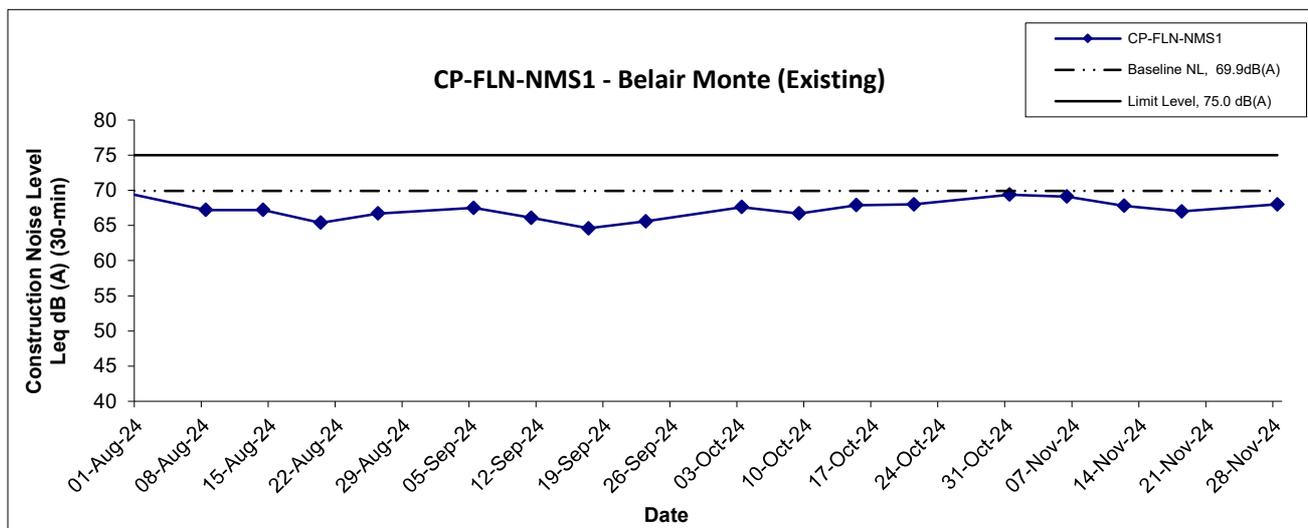
Location CP-KTN-NMS3 - Fung Kong Garden (Existing)							
Date	Weather	Time	Unit: dB (A) (5-min)			Average	Baseline Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
5-Nov-24	Sunny	16:30	60.7	64.9	49.7	55.0	51.6
		16:35	51.2	52.3	49.2		
		16:40	51.7	53.8	49.9		
		16:45	52.8	55.0	49.2		
		16:50	52.6	55.9	48.3		
		16:55	48.9	49.9	47.8		
11-Nov-24	Sunny	13:50	53.1	54.2	52.1	53.5	
		13:55	52.1	54.0	52.0		
		14:00	53.5	54.8	52.5		
		14:05	54.2	55.2	52.0		
		14:10	52.6	53.6	51.6		
21-Nov-24	Cloudy	14:15	54.7	57.4	52.2	49.2	
		11:15	49.4	52.0	45.4		
		11:20	46.6	48.3	45.0		
		11:25	45.6	46.9	43.6		
		11:30	48.1	51.5	43.5		
27-Nov-24	Sunny	11:35	53.6	55.5	45.4	49.4	
		11:40	45.8	47.9	43.6		
		15:10	48.8	49.4	48.1		
		15:15	49.3	50.4	48.2		
		15:20	49.0	49.8	48.4		
		15:25	49.6	50.8	48.5		
		15:30	49.8	50.8	48.7		
		15:35	50.0	50.6	48.7		

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}
5-Nov-24	Sunny	17:25	56.2	59.9	51.0	55.4	57.2
		17:30	58.6	59.2	51.2		
		17:35	51.6	52.8	50.9		
		17:40	55.1	58.7	51.1		
		17:45	54.5	57.0	51.5		
		17:50	52.8	54.1	51.0		
11-Nov-24	Sunny	15:15	55.4	56.2	53.5	55.2	
		15:20	55.9	57.3	53.1		
		15:25	54.3	56.1	52.9		
		15:30	55.5	57.4	53.2		
		15:35	54.4	57.2	53.0		
		15:40	55.4	57.3	53.1		
21-Nov-24	Cloudy	09:05	54.8	56.3	51.6	55.0	
		09:10	55.1	56.8	51.7		
		09:15	54.1	55.7	50.9		
		09:20	54.6	56.5	51.2		
		09:25	55.7	58.3	51.8		
		09:30	55.3	57.6	51.3		
27-Nov-24	Sunny	16:00	49.5	50.4	46.5	52.3	
		16:05	48.0	51.1	47.5		
		16:10	53.1	54.1	48.7		
		16:15	50.3	52.4	46.4		
		16:20	56.7	57.0	44.7		
		16:25	49.7	52.6	46.2		

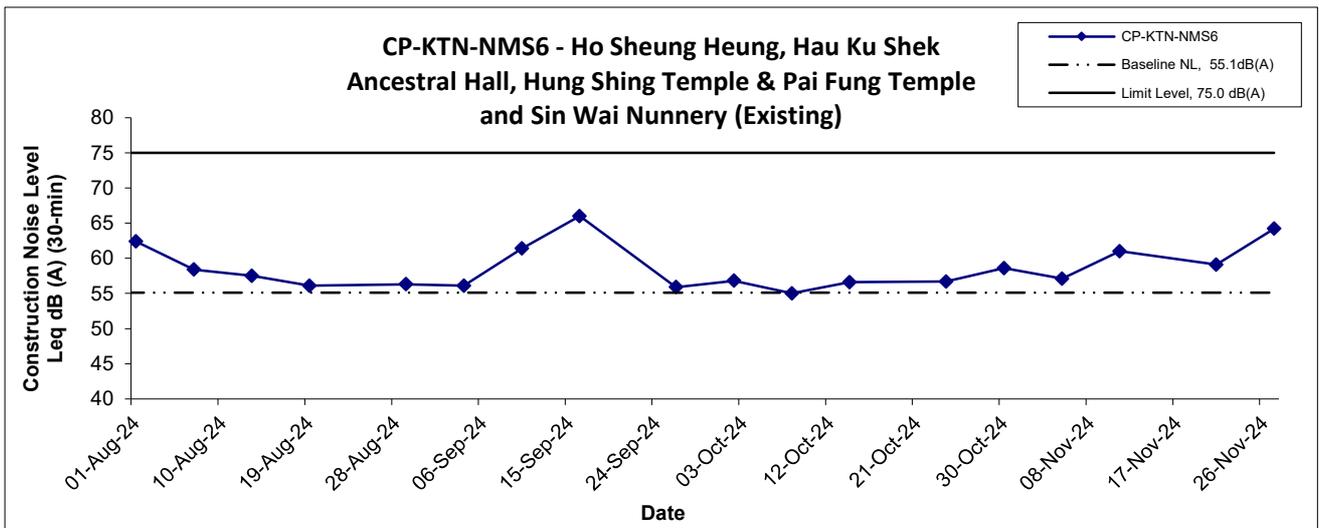
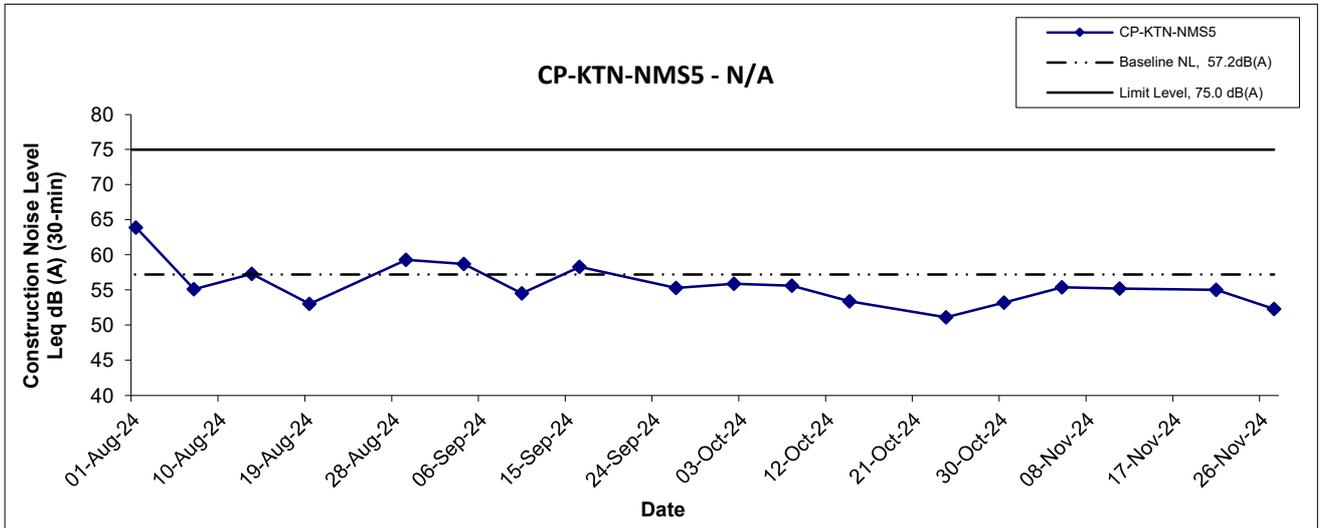
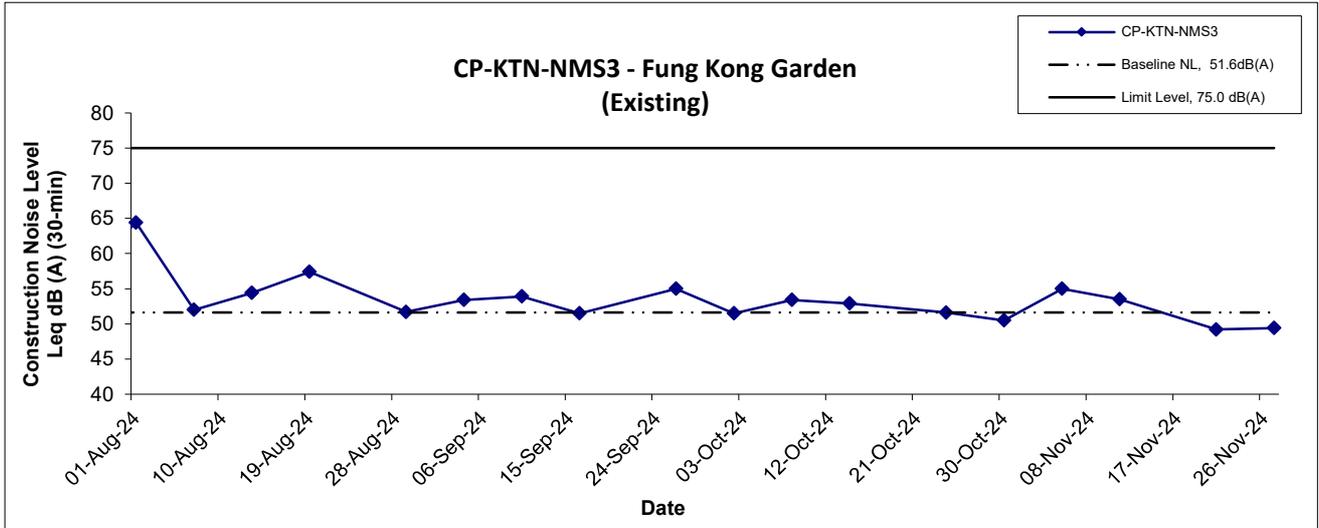
Location CP-KTN-NMS6 - Ho Sheung Heung, Hau Ku Shek Ancestral Hall, Hung Shing Temple & Pai Fung Temple and Sin Wai Nunnery (Existing)							
Date	Weather	Time	Unit: dB (A) (5-min)			Average	Baseline Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
5-Nov-24	Sunny	11:15	55.5	56.7	54.3	57.1	55.1
		11:20	58.0	60.0	54.7		
		11:25	56.1	57.7	54.6		
		11:30	57.6	58.8	53.6		
		11:35	57.7	62.3	53.4		
		11:40	56.9	58.6	55.2		
11-Nov-24	Sunny	10:45	60.7	60.8	57.8	61.0	
		10:50	60.0	62.7	57.9		
		10:55	60.4	61.7	58.3		
		11:00	62.9	64.5	56.3		
		11:05	61.7	64.2	58.1		
		11:10	59.0	59.7	58.3		
21-Nov-24	Cloudy	09:50	59.2	61.6	55.0	59.1	
		09:55	56.5	58.5	54.4		
		10:00	57.7	60.9	54.2		
		10:05	61.0	62.7	55.8		
		10:10	60.3	62.6	57.3		
		10:15	58.5	60.7	56.4		
27-Nov-24	Sunny	11:25	57.3	60.8	49.8	64.2	
		11:30	57.9	59.3	50.7		
		11:35	63.7	64.1	54.5		
		11:40	69.8	72.2	55.2		
		11:45	57.3	59.8	54.4		
		11:50	63.3	64.7	54.2		

Noise 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 Construction Noise Monitoring Results	Scale	Project	
	N.T.S	No. WMA20002	
	Date	Nov 24	Appendix

Noise 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 Construction Noise Monitoring Results	Scale N.T.S	Project No. WMA20002	匯力 consulting . testing . research
	Date Nov 24	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
1-Nov-24	Sunny	09:32	Middle	0.1	24.6	24.6	7.5	7.5	0.1	0.1	71.1	71.1	5.9	5.9	6.6	6.5	10	10.0	10	10.0
					24.6		7.5		71.0		5.9		6.4		10					
4-Nov-24	Sunny	10:30	Middle	0.1	25.2	25.2	8.2	8.2	0.4	0.4	76.1	76.1	6.3	6.3	8.0	8.1	5	5.0	10	10.0
					25.2		8.2		76.0		6.2		8.1		5					
6-Nov-24	Cloudy	11:01	Middle	0.1	25.3	25.3	7.8	7.8	0.2	0.2	76.9	76.8	6.3	6.3	6.4	6.5	12	12.5	9	9.0
					25.3		7.8		76.7		6.3		6.5		13					
8-Nov-24	Sunny	12:39	Middle	0.2	23.4	23.4	8.0	8.0	0.1	0.1	77.1	77.1	6.6	6.6	20.6	20.7	25	24.0	9	9.5
					23.4		8.0		77.1		6.6		20.8		23					
11-Nov-24	Sunny	10:47	Middle	0.2	24.6	24.6	7.3	7.3	0.1	0.1	77.6	77.6	6.5	6.5	13.7	13.7	22	21.5	13	13.0
					24.6		7.3		77.6		6.5		13.7		21					
13-Nov-24	Rainy	09:38	Middle	0.2	25.0	25.0	7.2	7.2	0.1	0.1	64.5	64.5	5.3	5.3	264.4	265.8	30	30.0	14	14.0
					25.0		7.2		64.5		5.3		267.1		30					
15-Nov-24	Cloudy	12:17	Middle	0.1	24.3	24.3	8.0	8.0	0.1	0.1	69.6	69.6	5.8	5.8	7.6	7.6	24	23.5	11	11.5
					24.3		8.0		69.6		5.8		7.6		23					
18-Nov-24	Cloudy	09:36	Middle	0.1	24.8	24.8	7.6	7.6	0.1	0.1	42.3	42.3	3.5	3.5	5.2	5.2	12	12.5	8	7.5
					24.8		7.6		42.2		3.5		5.2		13					
20-Nov-24	Rainy	08:58	Middle	0.1	20.5	20.5	8.2	8.2	0.1	0.1	86.6	86.4	7.8	7.8	33.3	33.3	11	11.5	6	6.0
					20.5		8.2		86.1		7.8		33.2		12					
22-Nov-24	Cloudy	11:14	Middle	0.2	20.8	20.8	8.3	8.3	0.1	0.1	78.0	78.0	7.0	7.0	26.5	26.2	25	24.5	11	11.5
					20.8		8.3		77.9		7.0		25.8		24					
25-Nov-24	Cloudy	09:18	Middle	0.2	21.7	21.7	7.6	7.6	0.1	0.1	70.8	70.8	6.2	6.2	10.4	10.5	27	27.5	10	10.0
					21.7		7.6		70.7		6.2		10.5		28					
27-Nov-24	Sunny	11:22	Middle	0.2	19.5	19.5	7.1	7.1	0.1	0.1	83.5	83.3	7.7	7.7	7.1	7.2	8	7.5	6	6.0
					19.5		7.1		83.1		7.6		7.2		7					
29-Nov-24	Sunny	10:21	Middle	0.2	18.8	18.8	8.0	8.0	0.1	0.1	61.7	61.4	5.7	5.7	4.4	4.5	12	12.5	6	6.5
					18.8		8.0		61.0		5.7		4.5		13					

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
1-Nov-24	Sunny	09:44	Middle	0.6	26.4	26.4	7.4	7.4	0.2	0.2	78.1	78.0	6.3	6.3	21.6	21.7	18	18.0	11	11.5
					26.4		7.4		0.2		77.9		6.3		21.7		18		12	
4-Nov-24	Sunny	10:52	Middle	0.3	26.2	26.2	7.5	7.5	0.2	0.2	77.8	77.9	6.3	6.3	17.4	17.4	20	20.0	11	10.5
					26.2		7.5		0.2		77.9		6.3		20		10			
6-Nov-24	Cloudy	11:20	Middle	0.1	26.3	26.3	7.5	7.5	0.2	0.2	76.6	76.6	6.2	6.2	19.6	19.5	14	14.5	8	8.5
					26.3		7.5		0.2		76.5		6.2		15		9			
8-Nov-24	Sunny	12:55	Middle	0.3	26.7	26.8	7.9	7.9	0.1	0.1	108.6	108.6	8.7	8.7	35.2	35.3	42	42.5	10	10.0
					26.8		7.9		0.1		108.5		8.7		43		10			
11-Nov-24	Sunny	10:59	Middle	0.3	25.1	25.1	7.3	7.3	0.1	0.1	83.2	83.2	6.9	6.9	31.5	31.5	44	43.5	15	15.0
					25.1		7.3		0.1		83.2		6.9		43		15			
13-Nov-24	Rainy	09:51	Middle	0.5	26.1	26.1	7.2	7.2	0.3	0.3	56.7	56.6	4.6	4.6	27.9	27.8	52	51.5	15	15.5
					26.1		7.2		0.3		56.4		4.6		27.6		51		16	
15-Nov-24	Cloudy	12:34	Middle	0.4	24.0	24.0	7.8	7.8	0.1	0.1	81.4	81.4	6.9	6.9	10.9	10.9	34	33.5	13	13.0
					24.0		7.7		0.1		81.3		6.8		33		13			
18-Nov-24	Cloudy	09:51	Middle	0.4	26.0	26.0	7.4	7.4	0.2	0.2	79.5	79.6	6.4	6.5	9.2	9.2	34	33.5	7	7.0
					26.0		7.4		0.2		79.7		6.5		33		7			
20-Nov-24	Rainy	09:18	Middle	0.1	20.4	20.4	8.2	8.2	0.1	0.1	85.7	85.5	7.7	7.7	125.9	124.0	44	43.5	6	5.5
					20.4		8.2		0.1		85.2		7.7		43		5			
22-Nov-24	Cloudy	11:27	Middle	0.1	21.8	21.8	8.2	8.2	0.1	0.1	95.5	95.5	8.4	8.4	37.6	37.6	26	25.0	11	11.5
					21.8		8.2		0.1		95.5		8.4		24		12			
25-Nov-24	Cloudy	09:28	Middle	0.4	21.1	21.1	7.2	7.2	0.1	0.1	70.2	70.0	6.2	6.2	40.5	40.5	34	35.0	12	11.5
					21.1		7.2		0.1		69.8		6.2		36		11			
27-Nov-24	Sunny	11:38	Middle	0.4	18.7	18.7	7.3	7.3	0.1	0.1	78.3	78.2	7.3	7.3	12.1	12.0	7	7.0	6	5.5
					18.7		7.3		0.1		78.0		7.3		7		5			
29-Nov-24	Sunny	10:34	Middle	0.6	18.2	18.2	8.0	8.0	0.1	0.1	87.3	87.2	8.2	8.2	14.7	14.7	14	14.0	6	6.0
					18.2		8.0		0.1		87.1		8.2		14		6			

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	
1-Nov-24	Sunny	11:19	Middle	0.2	26.8	26.8	7.3	7.3	0.1	0.1	123.6	123.6	9.9	9.9	5.6	5.6	10	9	9.5
					26.8		7.3		0.1		123.6		9.9		5.6				
4-Nov-24	Sunny	12:09	Middle	0.2	27.0	27.0	7.7	7.7	0.1	0.1	126.3	126.4	10.1	10.1	4.9	4.9	6	6	6.0
					27.0		7.7		0.1		126.5		10.1		4.9				
6-Nov-24	Cloudy	12:22	Middle	0.2	26.8	26.8	8.0	8.0	0.2	0.2	129.9	130.0	10.4	10.4	5.6	5.6	11	12	11.5
					26.8		8.0		0.2		130.0		10.4		5.6				
8-Nov-24	Sunny	14:15	Middle	0.2	25.9	25.9	7.9	7.9	0.1	0.1	120.3	120.4	9.8	9.8	9.3	9.3	13	13	13.0
					25.9		7.9		0.1		120.4		9.8		9.3				
11-Nov-24	Sunny	10:30	Middle	0.2	27.5	27.5	7.4	7.4	0.1	0.1	121.4	121.4	9.6	9.6	6.6	6.6	11	10	10.5
					27.5		7.4		0.1		121.4		9.6		6.6				
13-Nov-24	Rainy	11:04	Middle	0.2	25.0	25.0	7.1	7.1	0.1	0.1	87.8	87.8	7.3	7.3	18.4	18.3	23	24	23.5
					25.0		7.1		0.1		87.8		7.3		18.4				
15-Nov-24	Cloudy	13:34	Middle	0.1	24.7	24.7	7.7	7.7	0.1	0.1	93.6	93.6	7.8	7.8	5.6	5.6	21	22	21.5
					24.7		7.7		0.1		93.5		7.8		5.6				
18-Nov-24	Cloudy	11:01	Middle	0.2	25.5	25.5	7.5	7.5	0.1	0.1	109.4	109.5	9.0	9.0	6.9	6.9	16	15	15.5
					25.5		7.5		0.1		109.5		9.0		6.9				
20-Nov-24	Rainy	10:58	Middle	0.1	20.9	20.9	8.1	8.1	0.1	0.1	90.8	90.8	8.1	8.1	27.6	27.6	25	26	25.5
					20.9		8.1		0.1		90.7		8.1		27.6				
22-Nov-24	Cloudy	13:38	Middle	0.2	23.0	23.0	8.0	8.0	0.1	0.1	111.2	111.3	9.5	9.5	8.7	8.7	12	13	12.5
					23.0		8.0		0.1		111.3		9.5		8.7				
25-Nov-24	Cloudy	10:52	Middle	0.1	24.6	24.6	7.3	7.3	0.1	0.1	113.2	113.2	9.4	9.4	7.8	7.8	13	13	13.0
					24.6		7.3		0.1		113.2		9.4		7.8				
27-Nov-24	Sunny	10:59	Middle	0.2	19.4	19.5	7.2	7.2	0.1	0.1	104.1	104.1	9.6	9.6	4.6	4.6	12	12	12.0
					19.5		7.2		0.1		104.1		9.6		4.6				
29-Nov-24	Sunny	12:34	Middle	0.2	18.6	18.6	8.0	8.0	0.1	0.1	95.2	95.2	8.9	8.9	3.1	3.2	6	6	6.0
					18.6		8.0		0.1		95.2		8.9		3.2				

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
1-Nov-24	Sunny	10:17	Middle	0.5	24.6	24.6	7.5	7.5	0.1	0.1	73.4	73.4	6.1	6.1	4.3	4.4	3	3.0
					24.6		7.4		0.1		73.4		6.1		4.4		3	
4-Nov-24	Sunny	11:27	Middle	0.2	25.7	25.7	7.3	7.3	0.1	0.1	78.7	78.8	6.4	6.4	4.1	4.1	4	4.0
					25.7		7.3		0.1		78.9		6.4		4.1		4	
6-Nov-24	Cloudy	11:54	Middle	0.1	26.0	26.0	7.2	7.3	0.1	0.1	80.0	80.0	6.5	6.5	5.6	5.6	13	12.5
					26.0		7.3		0.1		80.0		6.5		5.6		12	
8-Nov-24	Sunny	13:23	Middle	0.2	28.0	28.0	8.6	8.6	0.1	0.1	143.5	143.6	11.2	11.2	10.3	10.3	16	15.0
					28.0		8.6		0.1		143.6		11.2		10.3		14	
11-Nov-24	Sunny	09:25	Middle	0.6	24.0	24.0	8.1	8.1	0.1	0.1	69.7	69.5	5.9	5.9	4.8	4.9	10	10.5
					24.0		8.1		0.1		69.3		5.8		4.9		11	
13-Nov-24	Rainy	10:13	Middle	0.6	24.5	24.5	7.3	7.3	0.1	0.1	57.3	57.3	4.8	4.8	8.1	8.1	12	11.5
					24.5		7.3		0.1		57.3		4.8		8.1		11	
15-Nov-24	Cloudy	13:12	Middle	0.1	24.5	24.5	7.7	7.7	0.1	0.1	83.4	83.4	7.0	7.0	6.0	6.0	23	23.0
					24.5		7.7		0.1		83.3		7.0		5.9		23	
18-Nov-24	Cloudy	10:34	Middle	0.2	25.5	25.5	7.4	7.4	0.1	0.1	87.2	87.1	7.1	7.1	7.5	7.5	11	11.5
					25.5		7.4		0.1		87.0		7.1		7.5		12	
20-Nov-24	Rainy	10:31	Middle	0.1	20.2	20.2	8.1	8.1	0.8	0.8	92.1	92.1	8.3	8.3	33.9	33.9	11	11.5
					20.2		8.1		0.8		92.1		8.3		33.8		12	
22-Nov-24	Cloudy	12:38	Middle	0.4	21.6	21.6	7.9	7.9	0.1	0.1	94.9	94.9	8.4	8.4	4.9	4.9	8	7.5
					21.6		7.8		0.1		94.8		8.4		4.9		7	
25-Nov-24	Cloudy	09:49	Middle	0.5	21.6	21.6	7.5	7.5	0.1	0.1	79.6	79.4	7.0	7.0	6.4	6.3	14	14.0
					21.6		7.5		0.1		79.1		7.0		6.2		14	
27-Nov-24	Sunny	09:44	Middle	0.6	18.6	18.6	7.1	7.1	0.1	0.1	70.0	70.0	6.6	6.6	5.4	5.4	9	8.5
					18.6		7.1		0.1		70.0		6.5		5.4		8	
29-Nov-24	Sunny	11:15	Middle	0.3	18.6	18.7	7.9	7.9	0.1	0.1	86.2	86.3	8.1	8.1	3.6	3.6	5	5.5
					18.7		7.9		0.1		86.4		8.1		3.6		6	

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

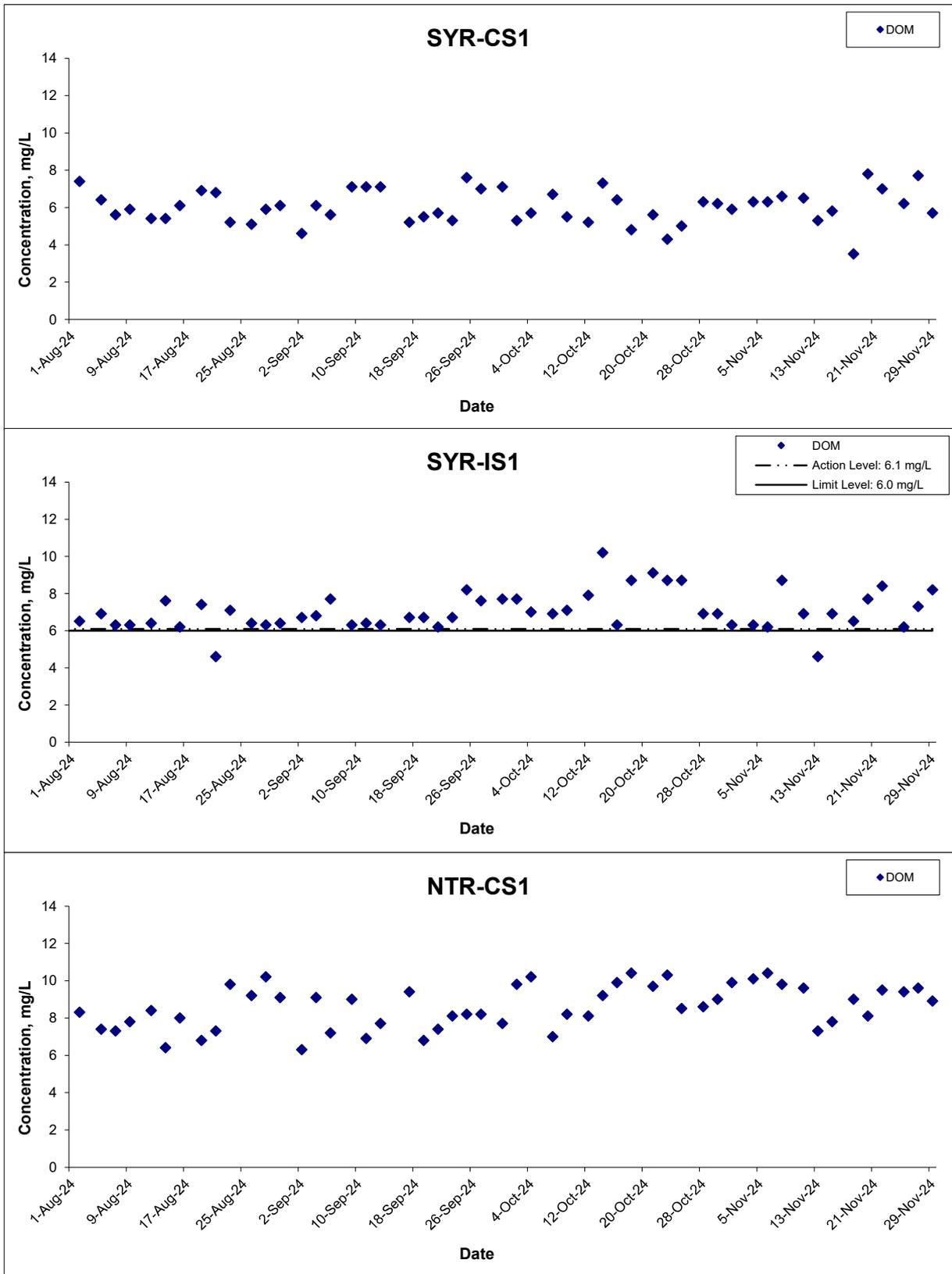
Date	Weather Condition	Start Time	Sampling Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)		Suspended Solids (mg/L)		
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	
1-Nov-24	Sunny	10:33	Middle	0.2	23.5	23.5	7.7	7.7	0.04	0.04	85.7	85.4	7.3	7.3	4.5	4.5	6	6	6.0
					23.5		7.7		0.04		85.1		7.2		4.5				
4-Nov-24	Sunny	11:18	Middle	0.2	25.7	25.7	7.6	7.6	0.1	0.1	86.4	86.6	7.1	7.1	3.5	3.5	<2.5	<2.5	<2.5
					25.7		7.6		0.1		86.8		7.1		3.5				
6-Nov-24	Cloudy	11:42	Middle	0.2	26.0	26.0	7.4	7.4	0.1	0.1	90.6	90.6	7.4	7.4	6.4	6.4	11	12	11.5
					26.0		7.4		0.1		90.5		7.3		6.3				
8-Nov-24	Sunny	13:32	Middle	0.2	21.4	21.4	8.6	8.6	0.04	0.04	92.3	92.2	8.2	8.2	7.7	7.7	15	14	14.5
					21.3		8.6		0.04		92.1		8.2		7.7				
11-Nov-24	Sunny	09:37	Middle	0.2	23.2	23.2	7.8	7.8	0.04	0.04	86.2	86.2	7.4	7.4	7.0	7.0	11	11	11.0
					23.2		7.8		0.04		86.1		7.4		7.0				
13-Nov-24	Rainy	10:25	Middle	0.2	23.2	23.2	7.5	7.5	0.1	0.1	72.6	72.2	6.2	6.2	13.1	13.2	23	24	23.5
					23.2		7.4		0.1		71.8		6.1		13.2				
15-Nov-24	Cloudy	12:56	Middle	0.1	24.5	24.5	7.7	7.7	0.1	0.1	88.4	88.5	7.4	7.4	6.0	6.1	24	23	23.5
					24.5		7.7		0.1		88.5		7.4		6.1				
18-Nov-24	Cloudy	10:20	Middle	0.2	25.5	25.5	7.6	7.6	0.1	0.1	89.1	89.1	7.3	7.3	6.8	6.8	13	14	13.5
					25.5		7.6		0.1		89.0		7.3		6.8				
20-Nov-24	Rainy	10:18	Middle	0.1	20.5	20.5	8.1	8.1	0.1	0.1	91.6	91.6	8.3	8.3	28.7	28.7	13	13	13.0
					20.5		8.1		0.1		91.5		8.2		28.6				
22-Nov-24	Cloudy	12:53	Middle	0.2	20.8	20.8	8.0	8.0	0.1	0.1	78.8	78.8	7.1	7.1	8.4	8.4	6	6	6.0
					20.8		8.0		0.1		78.7		7.1		8.4				
25-Nov-24	Cloudy	09:00	Middle	0.1	21.1	21.1	7.6	7.6	0.1	0.1	81.5	81.6	7.3	7.3	8.3	8.3	11	11	11.0
					21.1		7.5		0.1		81.6		7.3		8.3				
27-Nov-24	Sunny	10:04	Middle	0.2	19.0	19.0	7.6	7.6	0.1	0.1	86.1	85.8	8.0	8.0	4.6	4.7	13	14	13.5
					19.0		7.6		0.1		85.4		7.9		4.7				
29-Nov-24	Sunny	11:01	Middle	0.2	18.3	18.3	8.0	8.0	0.1	0.1	91.4	91.1	8.6	8.6	3.5	3.5	7	7	7.0
					18.3		8.0		0.1		90.8		8.5		3.5				

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

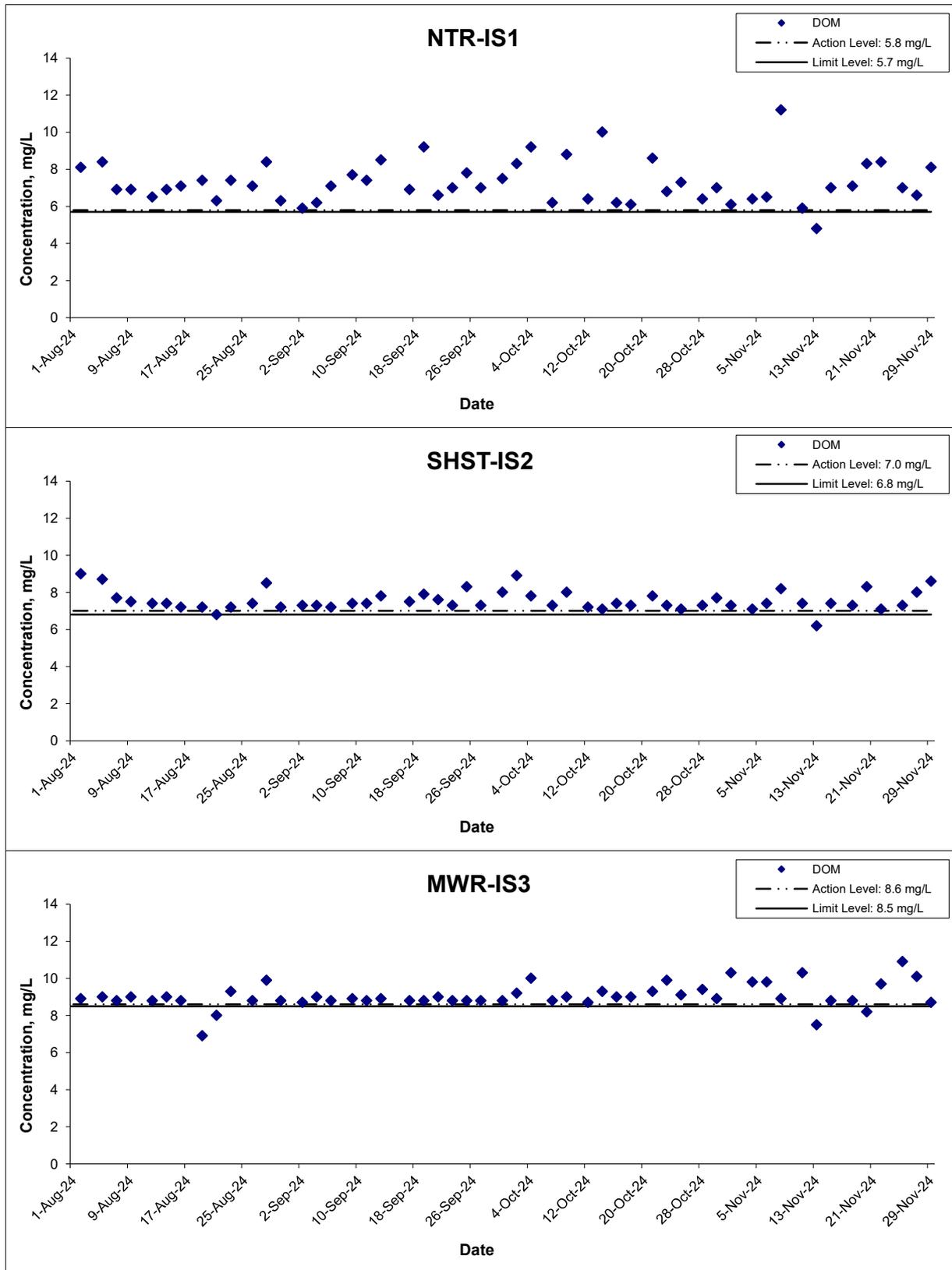
Date	Weather Condition	Start Time	Sampling Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)		Suspended Solids (mg/L)	
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
1-Nov-24	Sunny	11:09	Middle	0.2	26.1	26.1	7.6	7.6	0.1	0.1	126.9	126.9	10.3	10.3	5.5	5.5	3	3.5
					26.1		7.6		0.1		126.9		10.3		5.5			
4-Nov-24	Sunny	12:10	Middle	0.2	27.1	27.1	7.6	7.6	0.1	0.1	123.8	123.8	9.8	9.8	5.3	5.3	<2.5	<2.5
					27.1		7.6		0.1		123.7		9.8		5.3			
6-Nov-24	Cloudy	12:33	Middle	0.2	27.0	27.0	8.0	8.0	0.4	0.4	123.2	123.2	9.8	9.8	5.1	5.1	13	13.0
					27.0		8.0		0.4		123.2		9.8		5.0			
8-Nov-24	Sunny	14:05	Middle	0.2	25.8	25.8	8.2	8.2	0.1	0.1	108.7	108.8	8.9	8.9	9.0	8.9	13	13.0
					25.8		8.2		0.1		108.8		8.9		8.8			
11-Nov-24	Sunny	10:06	Middle	0.2	25.0	25.0	7.9	7.9	0.1	0.1	123.8	124.0	10.2	10.3	6.3	6.4	11	10.5
					25.0		7.9		0.1		124.1		10.3		6.4			
13-Nov-24	Rainy	10:49	Middle	0.2	25.0	25.0	7.3	7.3	0.1	0.1	90.7	90.7	7.5	7.5	41.0	41.3	23	23.0
					25.0		7.3		0.1		90.7		7.5		41.6			
15-Nov-24	Cloudy	13:49	Middle	0.1	24.4	24.5	7.6	7.6	0.1	0.1	105.4	105.5	8.8	8.8	5.8	5.8	15	14.5
					24.5		7.6		0.1		105.6		8.8		5.8			
18-Nov-24	Cloudy	11:14	Middle	0.2	25.5	25.5	7.5	7.5	0.1	0.1	107.5	107.6	8.8	8.8	4.2	4.2	15	15.0
					25.5		7.4		0.1		107.6		8.8		4.2			
20-Nov-24	Rainy	11:15	Middle	0.1	20.8	20.8	8.0	8.0	0.1	0.1	92.0	92.0	8.2	8.2	31.5	31.5	12	12.0
					20.8		8.0		0.1		92.0		8.2		31.4			
22-Nov-24	Cloudy	13:32	Middle	0.2	23.2	23.2	8.2	8.2	0.1	0.1	113.4	113.4	9.7	9.7	8.8	8.8	13	12.5
					23.2		8.2		0.1		113.4		9.7		8.8			
25-Nov-24	Cloudy	10:22	Middle	0.1	22.6	22.6	7.5	7.5	0.1	0.1	125.6	125.7	10.9	10.9	8.6	8.4	15	14.5
					22.6		7.5		0.1		125.8		10.9		8.2			
27-Nov-24	Sunny	10:36	Middle	0.2	19.1	19.1	7.6	7.6	0.1	0.1	109.4	109.5	10.1	10.1	3.1	3.1	12	11.5
					19.1		7.6		0.1		109.5		10.1		3.1			
29-Nov-24	Sunny	12:47	Middle	0.2	18.8	18.8	8.0	8.0	0.1	0.1	93.3	93.3	8.7	8.7	3.5	3.5	8	7.5
					18.8		8.0		0.1		93.2		8.7		3.4			

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	consulting . testing . research
	Date Nov 24	Appendix G	

Dissolved Oxygen (Middle)



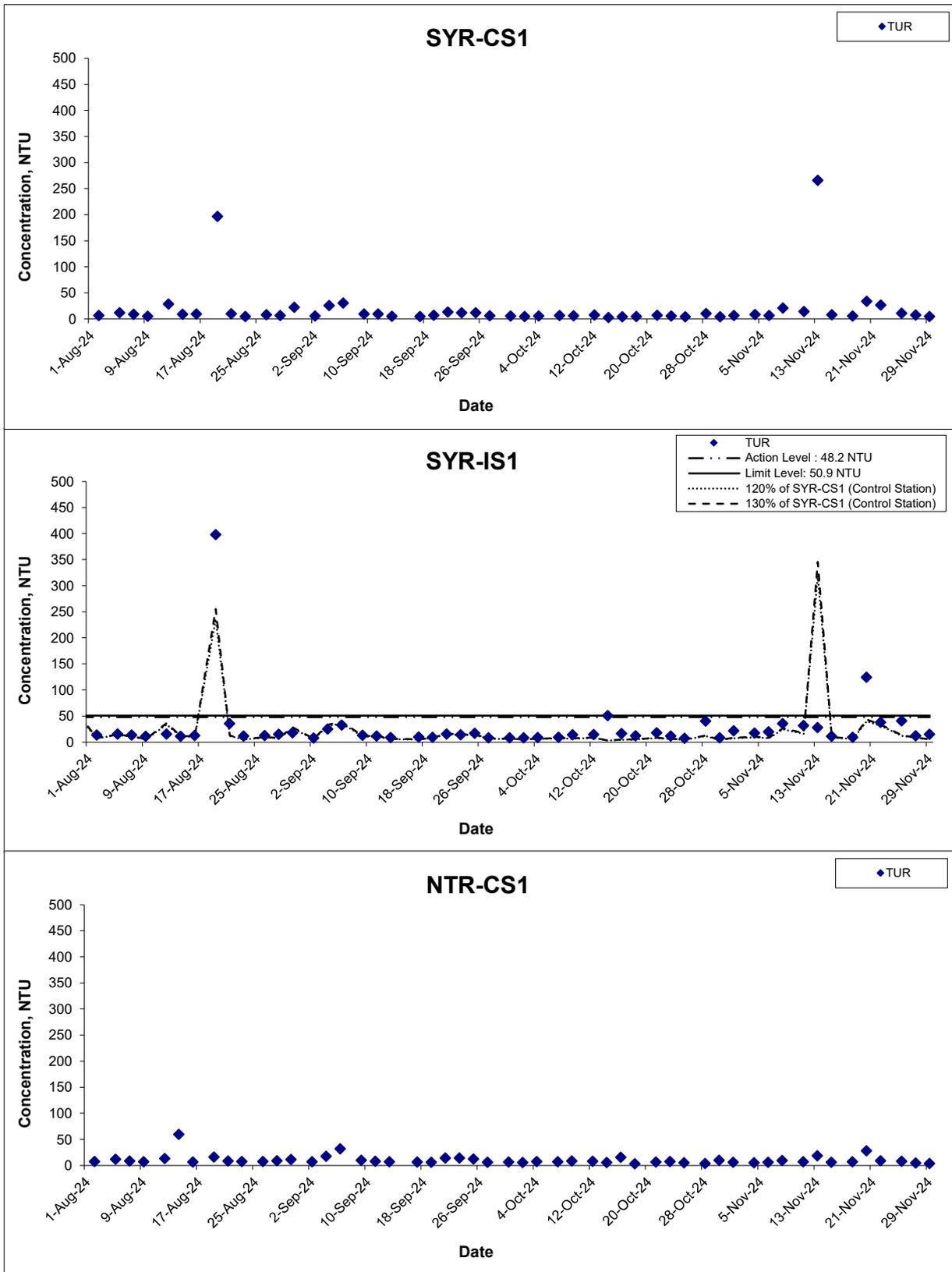
Title
 Contract No. NDO 04/2019
 Advance and First Stage Works of Kwu Tung North and Fanling
 North New Development Areas
 Graphical Presentation of Water Quality Monitoring
 Results

Scale
 N.T.S
Date
 Nov 24

Project No.
 WMA20002
Appendix
 G

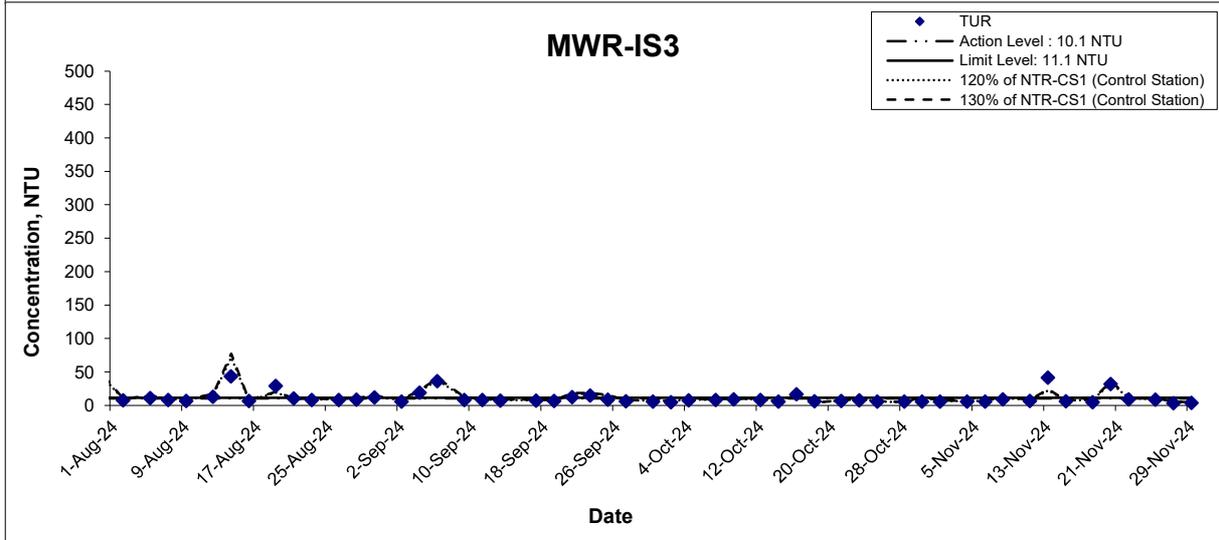
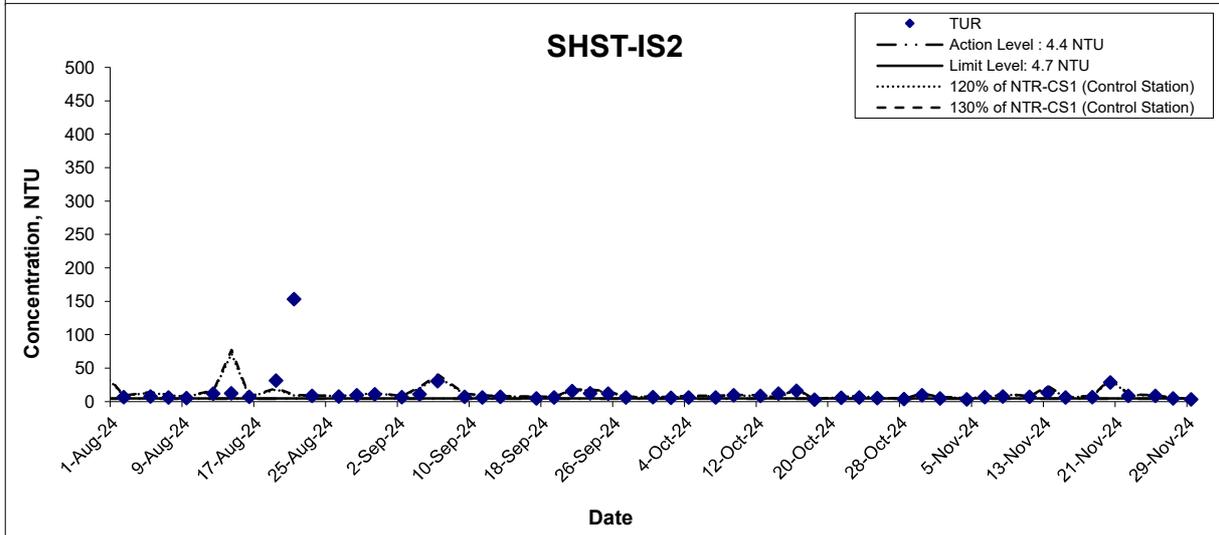
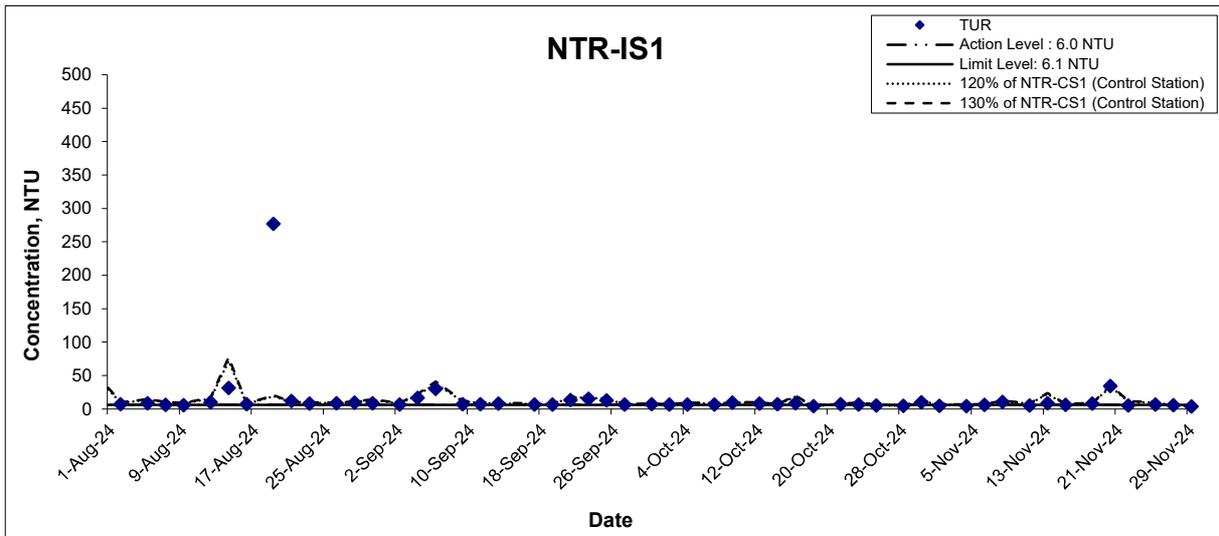


Turbidity (Depth-averaged)



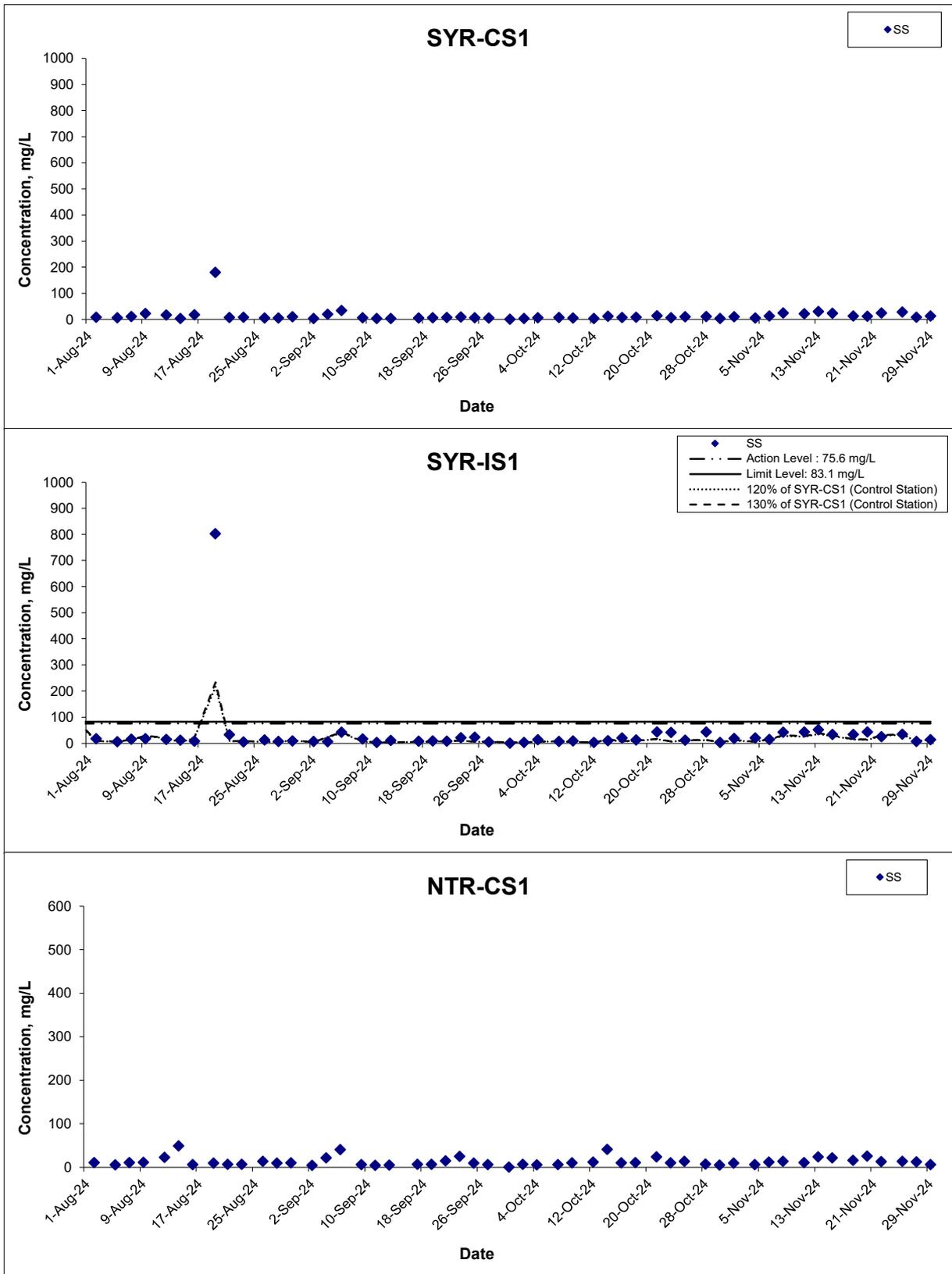
Title Contract No. NDO 04/2019 Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas Graphical Presentation of Water Quality Monitoring Results	Scale N.T.S	Project No. WMA20002	consulting . testing . research
	Date Nov 24	Appendix G	

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	consulting . testing . research
	Date Nov 24	Appendix G	

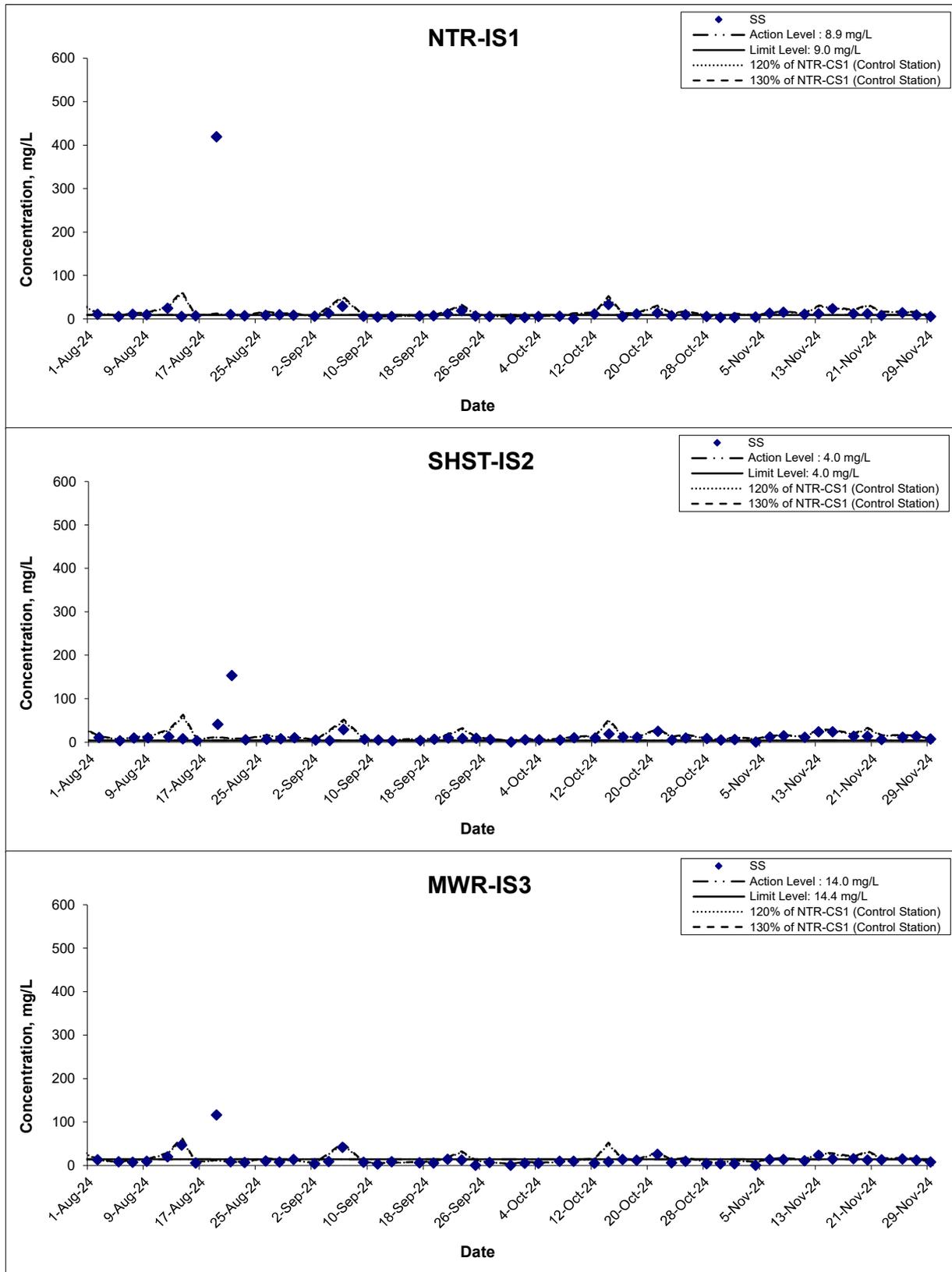
Suspended Solids (Depth-averaged)



Remark: The graphical point at zero concentration is presented as <2.5 mg/L

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	consulting . testing . research
	Date Nov 24	Appendix G	

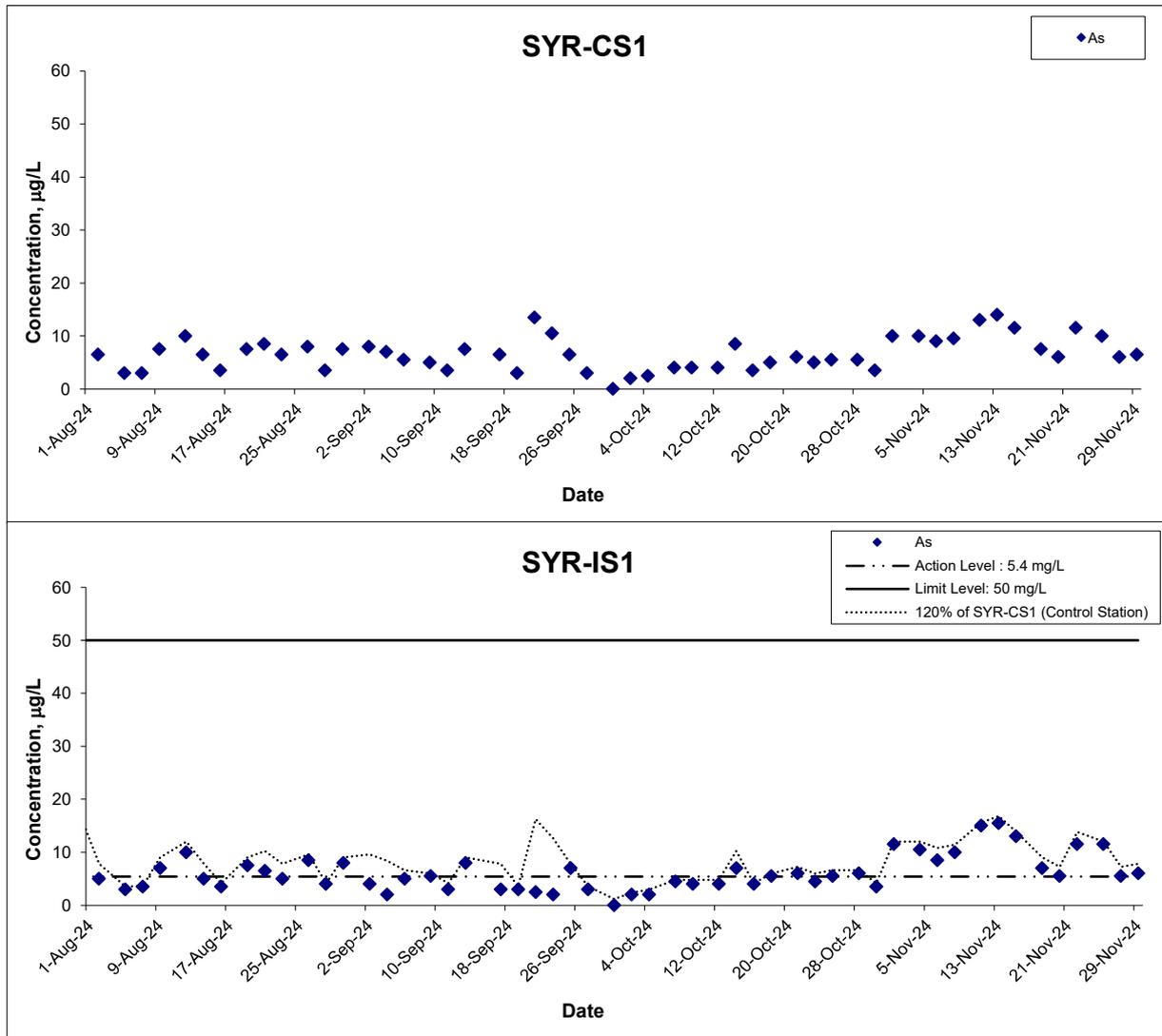
Suspended Solids (Depth-averaged)



Remark: The graphical point at zero concentration is presented as <2.5 mg/L

Title	Contract No. NDO 04/2019 Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas	Scale	N.T.S	Project No.	WMA20002	
	Graphical Presentation of Water Quality Monitoring Results	Date	Nov 24	Appendix	G	

Arsenic (Depth-averaged)



Remark: The graphical point at zero concentration is presented as <1 µg/L

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	consulting . testing . research
	Date Nov 24	Appendix G	

**APPENDIX H
LABORATORY TESTING REPORTS FOR
LABORATORY ANALYSIS**

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	41160
Date of Issue:	2024-11-07
Date Received:	2024-11-01
Date Tested:	2024-11-01
Date Completed:	2024-11-07

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 4 liquid samples as received from client said to be water
 Laboratory No. : 41160
 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. : WMA20002/241101
 Sampling Date : 2024-11-01

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

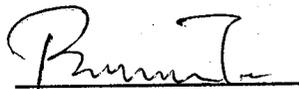
Results:

Sample ID	SYR-CS1-a	SYR-CS1-b	SYR-IS1-a	SYR-IS1-b
Sample No.	41160-2	41160-3	41160-5	41160-6
Total Suspended Solids dried at 103-105°C (mg/L)	10	10	18	18
Arsenic (µg/L)	10	10	11	12

Remarks: 1) <= less than

*****END OF REPORT*****

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


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	41160A
Date of Issue:	2024-11-07
Date Received:	2024-11-01
Date Tested:	2024-11-01
Date Completed:	2024-11-07

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 8 liquid samples as received from client said to be water
 Laboratory No. : 41160A
 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. : WMA20002/241101
 Sampling Date : 2024-11-01

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.	41160-8	41160-9	41160-11	41160-12
Total Suspended Solids dried at 103-105°C (mg/L)	10	9	3	3

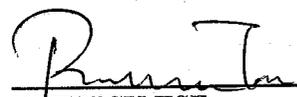
Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	41160-14	41160-15	41160-17	41160-18
Total Suspended Solids dried at 103-105°C (mg/L)	6	6	3	4

Remarks: 1) < = less than

*****END OF REPORT*****

PREPARED AND CHECKED BY:

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


PATRICK TSE
 General Manager

TEST REPORT**APPLICANT:** Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	41192
Date of Issue:	2024-11-08
Date Received:	2024-11-04
Date Tested:	2024-11-04
Date Completed:	2024-11-08
Page:	1 of 1

ATTN: Mr. Marco Ma

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 41192
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. : WMA20002/241104
Sampling Date : 2024-11-04

Tests Requested & Methodology:

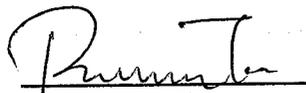
Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L
2	Arsenic	In-house method SOP022 (ICP-AES) and SOP076 (ICP-MS)	1 µg/L

Results:

Sample ID	SYR-CS1-a	SYR-CS1-b	SYR-IS1-a	SYR-IS1-b
Sample No.	41192-2	41192-3	41192-5	41192-6
Total Suspended Solids dried at 103-105°C (mg/L)	5	4	20	20
Arsenic (µg/L)	10	10	11	10

Remarks: 1) <= less than

*****END OF REPORT*****

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

PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
 Rm 1714, Technology Park,
 18 On Lai Street,
 Shatin, N.T.

Report No.:	41192A
Date of Issue:	2024-11-08
Date Received:	2024-11-04
Date Tested:	2024-11-04
Date Completed:	2024-11-08

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 8 liquid samples as received from client said to be water
 Laboratory No. : 41192A
 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. : WMA20002/241104
 Sampling Date : 2024-11-04

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.	41192-8	41192-9	41192-11	41192-12
Total Suspended Solids dried at 103-105°C (mg/L)	6	6	4	4

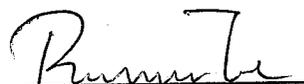
Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	41192-14	41192-15	41192-17	41192-18
Total Suspended Solids dried at 103-105°C (mg/L)	<2.5	<2.5	<2.5	<2.5

Remarks: 1) < = less than

*****END OF REPORT*****

PREPARED AND CHECKED BY:

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


PATRICK TSE
 General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	41202
Date of Issue:	2024-11-12
Date Received:	2024-11-06
Date Tested:	2024-11-06
Date Completed:	2024-11-12

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 41202
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. : WMA20002/241106
Sampling Date : 2024-11-06

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:

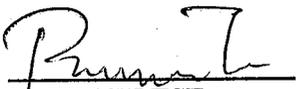
Sample ID	SYR-CS1-a	SYR-CS1-b	SYR-IS1-a	SYR-IS1-b
Sample No.	41202-2	41202-3	41202-5	41202-6
Total Suspended Solids dried at 103-105°C (mg/L)	12	13	14	15
Arsenic (µg/L)	9	9	8	9

Remarks: 1) <= less than

*****END OF REPORT*****

PREPARED AND CHECKED BY:

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


PATRICK TSE
 General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	41202A
Date of Issue:	2024-11-12
Date Received:	2024-11-06
Date Tested:	2024-11-06
Date Completed:	2024-11-12

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 41202A
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. : WMA20002/241106
Sampling Date : 2024-11-06

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.	41202-8	41202-9	41202-11	41202-12
Total Suspended Solids dried at 103-105°C (mg/L)	11	12	13	12

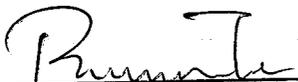
Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	41202-14	41202-15	41202-17	41202-18
Total Suspended Solids dried at 103-105°C (mg/L)	11	12	13	13

Remarks: 1) <= less than

*****END OF REPORT*****

PREPARED AND CHECKED BY:

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


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	41212
Date of Issue:	2024-11-14
Date Received:	2024-11-08
Date Tested:	2024-11-08
Date Completed:	2024-11-14

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 4 liquid samples as received from client said to be water
 Laboratory No. : 41212
 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. : WMA20002/241108
 Sampling Date : 2024-11-08

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

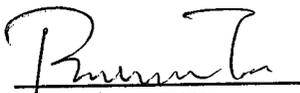
Results:

Sample ID	SYR-CS1-a	SYR-CS1-b	SYR-IS1-a	SYR-IS1-b
Sample No.	41212-2	41212-3	41212-5	41212-6
Total Suspended Solids dried at 103-105°C (mg/L)	25	23	42	43
Arsenic (µg/L)	9	10	10	10

Remarks: 1) <= less than

*****END OF REPORT*****

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


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	41212A
Date of Issue:	2024-11-14
Date Received:	2024-11-08
Date Tested:	2024-11-08
Date Completed:	2024-11-14

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 41212A
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. : WMA20002/241108
Sampling Date : 2024-11-08

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.	41212-8	41212-9	41212-11	41212-12
Total Suspended Solids dried at 103-105°C (mg/L)	13	13	16	14

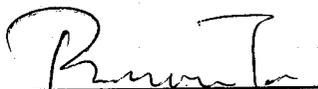
Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	41212-14	41212-15	41212-17	41212-18
Total Suspended Solids dried at 103-105°C (mg/L)	15	14	13	13

Remarks: 1) <= less than

*****END OF REPORT*****

PREPARED AND CHECKED BY:

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


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	41235
Date of Issue:	2024-11-15
Date Received:	2024-11-11
Date Tested:	2024-11-11
Date Completed:	2024-11-15

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 41235
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. : WMA20002/241111
Sampling Date : 2024-11-11

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

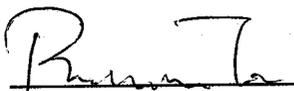
Results:

Sample ID	SYR-CS1-a	SYR-CS1-b	SYR-IS1-a	SYR-IS1-b
Sample No.	41235-2	41235-3	41235-5	41235-6
Total Suspended Solids dried at 103-105°C (mg/L)	22	21	44	43
Arsenic (µg/L)	13	13	15	15

Remarks: 1) <= less than

*****END OF REPORT*****

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


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	41235A
Date of Issue:	2024-11-15
Date Received:	2024-11-11
Date Tested:	2024-11-11
Date Completed:	2024-11-15
Page:	1 of 1

ATTN: Mr. Marco Ma

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 41235A
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. : WMA20002/241111
Sampling Date : 2024-11-11

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:

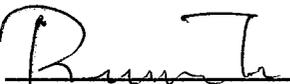
Sample ID	NTR-CS1-a	NTR-CS1-b	NTR-IS1-a	NTR-IS1-b
Sample No.	41235-8	41235-9	41235-11	41235-12
Total Suspended Solids dried at 103-105°C (mg/L)	11	10	10	11

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	41235-14	41235-15	41235-17	41235-18
Total Suspended Solids dried at 103-105°C (mg/L)	11	11	11	10

Remarks: 1) <= less than

*****END OF REPORT*****

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


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	41248
Date of Issue:	2024-11-19
Date Received:	2024-11-13
Date Tested:	2024-11-13
Date Completed:	2024-11-19

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 41248
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. : WMA20002/241113
Sampling Date : 2024-11-13

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.	41248-2	41248-3	41248-5	41248-6
Total Suspended Solids dried at 103-105°C (mg/L)	30	30	52	51
Arsenic (µg/L)	14	14	15	16

Remarks: 1) <= less than

*****END OF REPORT*****

PREPARED AND CHECKED BY:

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


PATRICK TSE
 General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	41248A
Date of Issue:	2024-11-19
Date Received:	2024-11-13
Date Tested:	2024-11-13
Date Completed:	2024-11-19

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 41248A
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. : WMA20002/241113
Sampling Date : 2024-11-13

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.	41248-8	41248-9	41248-11	41248-12
Total Suspended Solids dried at 103-105°C (mg/L)	23	24	12	11

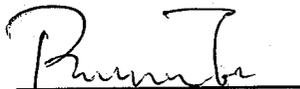
Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	41248-14	41248-15	41248-17	41248-18
Total Suspended Solids dried at 103-105°C (mg/L)	23	24	23	23

Remarks: 1) <= less than

*****END OF REPORT*****

PREPARED AND CHECKED BY:

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


PATRICK TSE
 General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	41261
Date of Issue:	2024-11-21
Date Received:	2024-11-15
Date Tested:	2024-11-15
Date Completed:	2024-11-21

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 41261
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. : WMA20002/241115
Sampling Date : 2024-11-15

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:

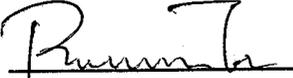
Sample ID	SYR-CS1-a	SYR-CS1-b	SYR-IS1-a	SYR-IS1-b
Sample No.	41261-2	41261-3	41261-5	41261-6
Total Suspended Solids dried at 103-105°C (mg/L)	24	23	34	33
Arsenic (µg/L)	11	12	13	13

Remarks: 1) <= less than

*****END OF REPORT*****

PREPARED AND CHECKED BY:

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


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	41261A
Date of Issue:	2024-11-21
Date Received:	2024-11-15
Date Tested:	2024-11-15
Date Completed:	2024-11-21

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 41261A
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. : WMA20002/241115
Sampling Date : 2024-11-15

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.	41261-8	41261-9	41261-11	41261-12
Total Suspended Solids dried at 103-105°C (mg/L)	21	22	23	23

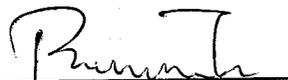
Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	41261-14	41261-15	41261-17	41261-18
Total Suspended Solids dried at 103-105°C (mg/L)	24	23	15	14

Remarks: 1) <= less than

*****END OF REPORT*****

PREPARED AND CHECKED BY:

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


PATRICK TSE
 General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	41302
Date of Issue:	2024-11-22
Date Received:	2024-11-18
Date Tested:	2024-11-18
Date Completed:	2024-11-22

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 41302
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. : WMA20002/241118
Sampling Date : 2024-11-18

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

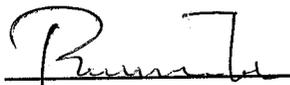
Results:

Sample ID	SYR-CS1-a	SYR-CS1-b	SYR-IS1-a	SYR-IS1-b
Sample No.	41302-2	41302-3	41302-5	41302-6
Total Suspended Solids dried at 103-105°C (mg/L)	12	13	34	33
Arsenic (µg/L)	8	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

TEST REPORT**APPLICANT:** Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	41302A
Date of Issue:	2024-11-22
Date Received:	2024-11-18
Date Tested:	2024-11-18
Date Completed:	2024-11-22

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 41302A
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. : WMA20002/241118
Sampling Date : 2024-11-18

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

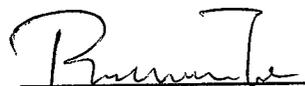
Results:

Sample ID	NTR-CS1-a	NTR-CS1-b	NTR-IS1-a	NTR-IS1-b
Sample No.	41302-8	41302-9	41302-11	41302-12
Total Suspended Solids dried at 103-105°C (mg/L)	16	15	11	12

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	41302-14	41302-15	41302-17	41302-18
Total Suspended Solids dried at 103-105°C (mg/L)	13	14	15	15

Remarks: 1) <= less than

*****END OF REPORT*****

PREPARED AND CHECKED BY:For and On Behalf of **WELLAB Ltd.**
PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	41313
Date of Issue:	2024-11-25
Date Received:	2024-11-20
Date Tested:	2024-11-20
Date Completed:	2024-11-25

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 41313
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. : WMA20002/241120
Sampling Date : 2024-11-20

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

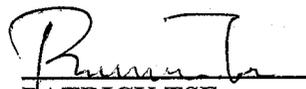
Results:

Sample ID	SYR-CS1-a	SYR-CS1-b	SYR-IS1-a	SYR-IS1-b
Sample No.	41313-2	41313-3	41313-5	41313-6
Total Suspended Solids dried at 103-105°C (mg/L)	11	12	44	43
Arsenic (µg/L)	6	6	6	5

Remarks: 1) <= less than

*****END OF REPORT*****

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


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	41313A
Date of Issue:	2024-11-25
Date Received:	2024-11-20
Date Tested:	2024-11-20
Date Completed:	2024-11-25

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 41313A
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. : WMA20002/241120
Sampling Date : 2024-11-20

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.	41313-8	41313-9	41313-11	41313-12
Total Suspended Solids dried at 103-105°C (mg/L)	25	26	11	12

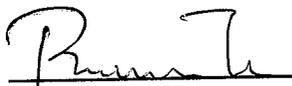
Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	41313-14	41313-15	41313-17	41313-18
Total Suspended Solids dried at 103-105°C (mg/L)	13	13	12	12

Remarks: 1) <= less than

*****END OF REPORT*****

PREPARED AND CHECKED BY:

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


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	41324
Date of Issue:	2024-11-28
Date Received:	2024-11-22
Date Tested:	2024-11-22
Date Completed:	2024-11-28

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 41324
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. : WMA20002/241122
Sampling Date : 2024-11-22

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.	41324-2	41324-3	41324-5	41324-6
Total Suspended Solids dried at 103-105°C (mg/L)	25	24	26	24
Arsenic (µg/L)	11	12	11	12

Remarks: 1) <= less than

*****END OF REPORT*****

PREPARED AND CHECKED BY:

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


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	41324A
Date of Issue:	2024-11-28
Date Received:	2024-11-22
Date Tested:	2024-11-22
Date Completed:	2024-11-28

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 8 liquid samples as received from client said to be water
 Laboratory No. : 41324A
 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. : WMA20002/241122
 Sampling Date : 2024-11-22

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.	41324-8	41324-9	41324-11	41324-12
Total Suspended Solids dried at 103-105°C (mg/L)	12	13	8	7

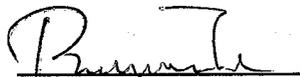
Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	41324-14	41324-15	41324-17	41324-18
Total Suspended Solids dried at 103-105°C (mg/L)	6	6	13	12

Remarks: 1) <= less than

*****END OF REPORT*****

PREPARED AND CHECKED BY:

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


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	41337
Date of Issue:	2024-11-29
Date Received:	2024-11-25
Date Tested:	2024-11-25
Date Completed:	2024-11-29

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 41337
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. : WMA20002/241125
Sampling Date : 2024-11-25

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:

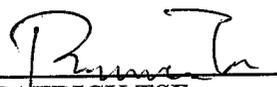
Sample ID	SYR-CS1-a	SYR-CS1-b	SYR-IS1-a	SYR-IS1-b
Sample No.	41337-2	41337-3	41337-5	41337-6
Total Suspended Solids dried at 103-105°C (mg/L)	27	28	34	36
Arsenic (µg/L)	10	10	12	11

Remarks: 1) <= less than

*****END OF REPORT*****

PREPARED AND CHECKED BY:

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


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	41337A
Date of Issue:	2024-11-29
Date Received:	2024-11-25
Date Tested:	2024-11-25
Date Completed:	2024-11-29

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 41337A
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. : WMA20002/241125
Sampling Date : 2024-11-25

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.	41337-8	41337-9	41337-11	41337-12
Total Suspended Solids dried at 103-105°C (mg/L)	13	13	14	14

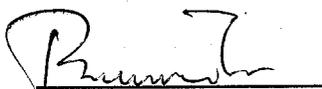
Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	41337-14	41337-15	41337-17	41337-18
Total Suspended Solids dried at 103-105°C (mg/L)	11	11	15	14

Remarks: 1) <= less than

*****END OF REPORT*****

PREPARED AND CHECKED BY:

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


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	41348
Date of Issue:	2024-12-03
Date Received:	2024-11-27
Date Tested:	2024-11-27
Date Completed:	2024-12-03

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 41348
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. : WMA20002/241127
Sampling Date : 2024-11-27

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

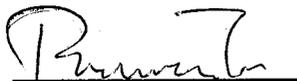
Results:

Sample ID	SYR-CS1-a	SYR-CS1-b	SYR-IS1-a	SYR-IS1-b
Sample No.	41348-2	41348-3	41348-5	41348-6
Total Suspended Solids dried at 103-105°C (mg/L)	8	7	7	7
Arsenic (µg/L)	6	6	6	5

Remarks: 1) <= less than

*****END OF REPORT*****

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


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	41348A
Date of Issue:	2024-12-03
Date Received:	2024-11-27
Date Tested:	2024-11-27
Date Completed:	2024-12-03

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 41348A
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. : WMA20002/241127
Sampling Date : 2024-11-27

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.	41348-8	41348-9	41348-11	41348-12
Total Suspended Solids dried at 103-105°C (mg/L)	12	12	9	8

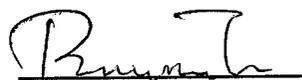
Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	41348-14	41348-15	41348-17	41348-18
Total Suspended Solids dried at 103-105°C (mg/L)	13	14	12	11

Remarks: 1) <= less than

*****END OF REPORT*****

PREPARED AND CHECKED BY:

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


PATRICK TSE
 General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	41359
Date of Issue:	2024-12-05
Date Received:	2024-11-29
Date Tested:	2024-11-29
Date Completed:	2024-12-05

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 41359
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. : WMA20002/241129
Sampling Date : 2024-11-29

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:

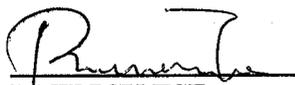
Sample ID	SYR-CS1-a	SYR-CS1-b	SYR-IS1-a	SYR-IS1-b
Sample No.	41359-2	41359-3	41359-5	41359-6
Total Suspended Solids dried at 103-105°C (mg/L)	12	13	14	14
Arsenic (µg/L)	6	7	6	6

Remarks: 1) <= less than

*****END OF REPORT*****

PREPARED AND CHECKED BY:

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


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	41359A
Date of Issue:	2024-12-05
Date Received:	2024-11-29
Date Tested:	2024-11-29
Date Completed:	2024-12-05

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 41359A
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. : WMA20002/241129
Sampling Date : 2024-11-29

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.	41359-8	41359-9	41359-11	41359-12
Total Suspended Solids dried at 103-105°C (mg/L)	6	6	5	6

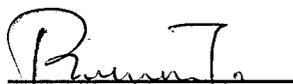
Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	41359-14	41359-15	41359-17	41359-18
Total Suspended Solids dried at 103-105°C (mg/L)	7	7	8	7

Remarks: 1) <= less than

*****END OF REPORT*****

PREPARED AND CHECKED BY:

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


PATRICK TSE
General Manager

**APPENDIX I
QUALITY CONTROL REPORTS FOR SS
AND ARSENIC LABORATORY
ANALYSIS**

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	QC41160
Date of Issue:	2024-11-07
Date Received:	2024-11-01
Date Tested:	2024-11-01
Date Completed:	2024-11-07

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 (%)	110	102	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 (%)	89	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	2	5	RPD≤5%
Arsenic (%)	8	N/A	RPD≤20%

Remarks: 1) < = less than

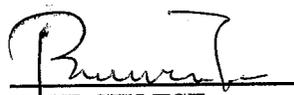
2) N/A = Not applicable

3) This report is the summary of quality control data for report number 41160.

*****END OF REPORT*****

PREPARED AND CHECKED BY:

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


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	QC41192
Date of Issue:	2024-11-08
Date Received:	2024-11-04
Date Tested:	2024-11-04
Date Completed:	2024-11-08

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 (%)	100	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 (%)	96	N/A	80-120

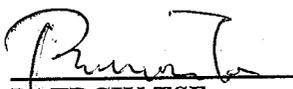
Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	5	4	RPD≤5%
Arsenic (%)	2	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 41192.

*****END OF REPORT*****

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


PATRIK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	QC41202
Date of Issue:	2024-11-12
Date Received:	2024-11-06
Date Tested:	2024-11-06
Date Completed:	2024-11-12

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 (%)	98	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

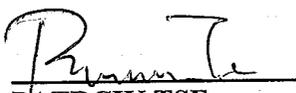
Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	4	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 41202.

*****END OF REPORT*****

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


PATRIK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	QC41212
Date of Issue:	2024-11-14
Date Received:	2024-11-08
Date Tested:	2024-11-08
Date Completed:	2024-11-14

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 (%)	115	109	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 (%)	91	N/A	80-120

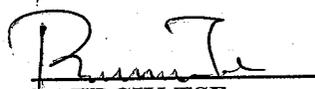
Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	2	4	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 41212.

*****END OF REPORT*****

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


PATRIK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	QC41235
Date of Issue:	2024-11-15
Date Received:	2024-11-11
Date Tested:	2024-11-11
Date Completed:	2024-11-15

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 (%)	105	103	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 (%)	88	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	1	1	RPD ≤ 5%
Arsenic (%)	5	N/A	RPD ≤ 20%

Remarks: 1) < = less than

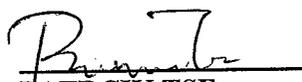
2) N/A = Not applicable

3) This report is the summary of quality control data for report number 41235.

*****END OF REPORT*****

PREPARED AND CHECKED BY:

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


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	QC41248
Date of Issue:	2024-11-19
Date Received:	2024-11-13
Date Tested:	2024-11-13
Date Completed:	2024-11-19

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 (%)	110	113	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

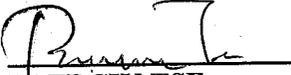
Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	4	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 41248.

*****END OF REPORT*****

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


PATRICK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	QC41261
Date of Issue:	2024-11-21
Date Received:	2024-11-15
Date Tested:	2024-11-15
Date Completed:	2024-11-21

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 (%)	110	96	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 (%)	99	N/A	80-120

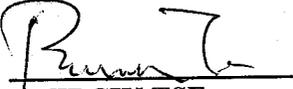
Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	2	3	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 41261.

*****END OF REPORT*****

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


PATRIK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	QC41302
Date of Issue:	2024-11-22
Date Received:	2024-11-18
Date Tested:	2024-11-18
Date Completed:	2024-11-22
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 (%)	105	108	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 (%)	88	N/A	80-120

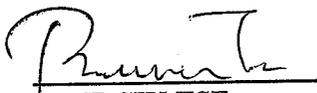
Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	1	2	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 41302.

*****END OF REPORT*****

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


PATRIK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	QC41313
Date of Issue:	2024-11-25
Date Received:	2024-11-20
Date Tested:	2024-11-20
Date Completed:	2024-11-25

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 (%)	92	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

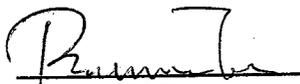
Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	1	2	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 41313.

*****END OF REPORT*****

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


PATRICIK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	QC41324
Date of Issue:	2024-11-28
Date Received:	2024-11-22
Date Tested:	2024-11-22
Date Completed:	2024-11-28

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 ($\mu\text{g/L}$)	<0.2	N/A	<0.2

Method QC

Parameter	MQC1	MQC2	Acceptance
Total Suspended Solids (%)	113	108	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

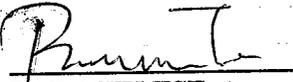
Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	4	2	RPD \leq 5%
Arsenic (%)	7	N/A	RPD \leq 20%

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 41324.

*****END OF REPORT*****

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


PATRICIK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	QC41337
Date of Issue:	2024-11-29
Date Received:	2024-11-25
Date Tested:	2024-11-25
Date Completed:	2024-11-29

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 (%)	110	106	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 (%)	96	N/A	80-120

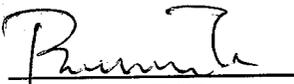
Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	3	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 41337.

*****END OF REPORT*****

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


PATRICIK TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	QC41348
Date of Issue:	2024-12-03
Date Received:	2024-11-27
Date Tested:	2024-11-27
Date Completed:	2024-12-03

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	96	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 (%)	94	N/A	80-120

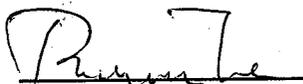
Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	2	2	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 41348.

*****END OF REPORT*****

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


PATRICIA TSE
General Manager

TEST REPORT

APPLICANT: Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.

Report No.:	QC41359
Date of Issue:	2024-12-05
Date Received:	2024-11-29
Date Tested:	2024-11-29
Date Completed:	2024-12-05

ATTN: Mr. Marco Ma
QC report
Method Blank

Page: 1 of 1

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 (%)	103	102	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 (%)	91	N/A	80-120

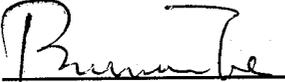
Sample Duplicate

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 41359.

*****END OF REPORT*****

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


PATRICIA TSE
General Manager

**APPENDIX J
LANDFILL GAS MONITORING
RESULTS**

Contract No. ND/2019/01

**Development of Kwu Tung North & Fanling North New Development Area, Phase 1:
Kwu Tung North New Development Area, Phase 1: Site formation & Infrastructure works**

堆填區附近區域(Consultation Zone)每月氣體監察記錄

日期及時間	位置	氣體及安全標準	氧氣 O2 >19%	甲烷 CH4 <10% LEL	二氧化碳 CO2 <0.5%
27-11-2024 14:26	CZ PT 1		20.90	0.00	0.00
27-11-2024 14:28	CZ container 1		20.90	0.00	0.00
27-11-2024 14:20	CZ container 2		20.90	0.00	0.00
27-11-2024 14:22	CZ container 3		20.90	0.00	0.00
27-11-2024 14:24	CZ container 4		20.90	0.00	0.00
27-11-2024 14:30	CZ container 5		20.90	0.00	0.00

Prepared by : Y.S. LIU (Safety Officer)

Date : 27-11-2024

**APPENDIX K
BUILT HERITAGE MONITORING
RESULTS**

Monitoring Location: HKT03

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

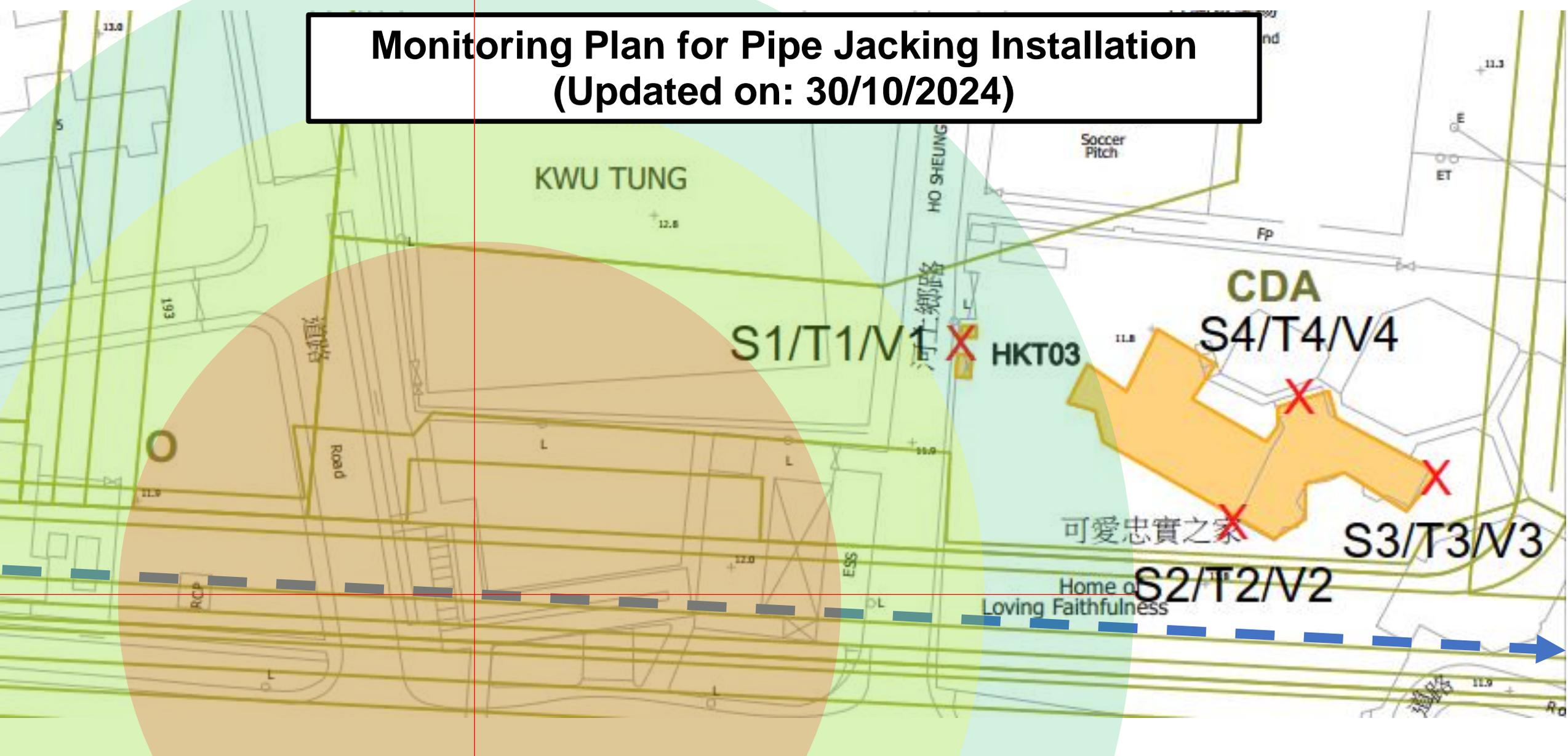
Remarks:

* peak particle velocity

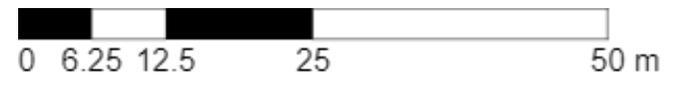
Date	Results (Max Point) (mm/s)	Location of pile
1/11/2024	0.284	HKT03 V1
	0.221	HKT03 V2
	0.268	HKT03 V3
	0.244	HKT03 V4
4/11/2024	0.284	HKT03 V1
	0.029	HKT03 V2
	0.236	HKT03 V3
	0.221	HKT03 V4
6/11/2024	0.236	HKT03 V1
	0.260	HKT03 V2
	0.323	HKT03 V3
	0.229	HKT03 V4
8/11/2024	0.236	HKT03 V1
	0.244	HKT03 V2
	0.221	HKT03 V3
	0.205	HKT03 V4
11/11/2024	0.229	HKT03 V1
	0.260	HKT03 V2
	0.229	HKT03 V3
	0.221	HKT03 V4
12/11/2024	0.236	HKT03 V1
	0.213	HKT03 V2
	0.221	HKT03 V3
	0.229	HKT03 V4
13/11/2024	0.205	HKT03 V1
	0.244	HKT03 V2
	0.213	HKT03 V3
	0.221	HKT03 V4

15/11/2024	0.252	HKT03 V1
	0.268	HKT03 V2
	0.213	HKT03 V3
	0.236	HKT03 V4
18/11/2024	0.244	HKT03 V1
	0.229	HKT03 V2
	0.221	HKT03 V3
	0.236	HKT03 V4
25/11/2024	0.236	HKT03 V1
	0.244	HKT03 V2
	0.221	HKT03 V3
	0.236	HKT03 V4

Monitoring Plan for Pipe Jacking Installation (Updated on: 30/10/2024)



Daily Monitoring	Bi-Daily Monitoring	Weekly Monitoring
Distance less than 50m	Distance less than 75m	Distance less than 100m



APPENDIX L
ECOLOGICAL MONITORING RESULTS

Appendix L1a. Avifauna Species Recorded for Water Birds Monitoring, 4 & 5 November 2024, High Tide

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		4/11/2024 (T1 & T2), 5/11/2024 (T3 & T5)					
					Weather Condition		Sunny, Sunny					
					Tidal Condition		High					
					Tide Level (m)		1.61, 1.72					
					Start Time		11:00, 13:00					
					Abundance							
					Transect Walk							
T1	T2	T3	T5					Heard	Flight			
			WAL	DAL	SWH	P						
Amur Stonechat	<i>Saxicola stejnegeri</i>	黑喉石鵯	WV					5				1
Asian Koel	<i>Eudynamys scolopacea</i>	噪鵯	R					1				
Black Drongo	<i>Dicrurus macrocercus</i>	黑卷尾	Sv					1				
Black-collared Starling	<i>Gracupica nigricollis</i>	黑領椋鳥	R					6			2	2
Black-winged Stilt	<i>Himantopus himantopus</i>	黑翅長腳鵯	PM	RC			2		120			7
Chinese Pond Heron	<i>Ardeola bacchus</i>	池鷺	R	PRC, (RC)	3	12	3	3	11	5		2
Common Greenshank	<i>Tringa nebularia</i>	青腳鵯	PM, WV	RC		1	2		5			
Common Moorhen	<i>Gallinula chloropus</i>	黑水雞	R						1			
Common Myna	<i>Acridotheres tristis</i>	家八哥	UR					4				2
Common Sandpiper	<i>Actitis hypoleucos</i>	磯鵯	WV, PM			2	6					
Common Snipe	<i>Gallinago gallinago</i>	扇尾沙錐	WV, PM						30			
Crested Myna	<i>Acridotheres cristatellus</i>	八哥	R					28				18
Daurian Redstart	<i>Phoenicurus aureus</i>	北紅尾鵯	WV			1						
Dusky Warbler	<i>Phylloscopus fuscatus</i>	褐柳鶯	PM, WV					1				
Eastern Cattle Egret	<i>Bubulcus coromandus</i>	牛背鶯	R, PM	(LC)			1	17	4			
Eastern Yellow Wagtail	<i>Motacilla tschutschensis</i>	東黃鵯	PM, WV					1				

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		4/11/2024 (T1 & T2), 5/11/2024 (T3 & T5)			
					Weather Condition		Sunny, Sunny			
					Tidal Condition		High			
					Tide Level (m)		1.61, 1.72			
					Start Time		11:00, 13:00			
					Abundance					
					Transect Walk					
					T1	T2	T3	T5		
			WAL	DAL	SWH	P				
Eurasian Teal	<i>Anas crecca</i>	綠翅鴨	WV	RC					27	
Eurasian Tree Sparrow	<i>Passer montanus</i>	樹麻雀	R					63		23
Great Cormorant	<i>Phalacrocorax carbo</i>	普通鸕鶿	CWV	PRC	3	1				
Great Egret	<i>Ardea alba</i>	大白鷺	R, WV	PRC(RC)	3	4	5		1	1
Green Sandpiper	<i>Tringa ochropus</i>	白腰草鵪	UPM, WV						1	
Grey Heron	<i>Ardea cinerea</i>	蒼鷺	WV	PRC		2	6		1	3
Grey Wagtail	<i>Motacilla cinerea</i>	灰鵪鶉	WV						3	
Little Egret	<i>Egretta garzetta</i>	小白鷺	R	PRC(RC)	5	7	6	2	3	9
Little Grebe	<i>Tachybaptus ruficollis</i>	小鸕鶿	R	LC						2
Little Ringed Plover	<i>Charadrius dubius</i>	金眶鵪	WV, PM	LC		12				
Long-tailed Shrike	<i>Lanius schach</i>	棕背伯勞	R						4	
Marsh Sandpiper	<i>Tringa stagnatilis</i>	澤鵪	PM, WV	RC						2
Masked Laughingthrush	<i>Pterorhinus perspicillatus</i>	黑臉噪鵪	R						6	
Northern Shoveler	<i>Spatula clypeata</i>	琵嘴鴨	WV	RC						51
Olive-backed Pipit	<i>Anthus hodgsoni</i>	樹鵪	WV						2	
Oriental Magpie	<i>Pica serica</i>	喜鵪	R						5	
Oriental Magpie-Robin	<i>Copsychus saularis</i>	鵪鶉	R						2	

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		4/11/2024 (T1 & T2), 5/11/2024 (T3 & T5)						
					Weather Condition		Sunny, Sunny						
					Tidal Condition		High						
					Tide Level (m)		1.61, 1.72						
					Start Time		11:00, 13:00						
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
			WAL	DAL	SWH	P	Heard	Flight					
Pied Avocet	<i>Recurvirostra avosetta</i>	反嘴鹬	WV	RC				21		15			
Red-throated Pipit	<i>Anthus cervinus</i>	紅喉鸚	CPM, WV	RC				6					
Rock Dove	<i>Columba livia</i>	原鴿	R			9		26		10			
Scaly-breasted Munia	<i>Lonchura punctulata</i>	斑文鳥	R					32		17			
Spotted Dove	<i>Streptopelia chinensis</i>	珠頸斑鳩	R		2	3		13		3			
White Wagtail	<i>Motacilla alba</i>	白鶺鴒	PM, WV		2	4	6	12		3			
White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	白胸苦惡鳥	R				1						
White-throated Kingfisher	<i>Halcyon smyrnensis</i>	白胸翡翠	R	(LC)				2					
Wood Sandpiper	<i>Tringa glareola</i>	林鶺鴒	PM, WV	LC					9				
Yellow-breasted Bunting	<i>Emberiza aureola</i>	黃胸鵪	PM	CR, RC				6					
Zitting Cisticola	<i>Cisticola juncidis</i>	棕扇尾鶯	PM, WV	LC				1					
Total No. of Species					6	12	10	3	28	12	3	3	15
Total No. of Conservation Interest Species					4	7	7	3	9	9	3	0	5

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		4/11/2024 (T1 & T2), 5/11/2024 (T3 & T5)									
					Weather Condition		Sunny, Sunny									
					Tidal Condition		High									
					Tide Level (m)		1.61, 1.72									
					Start Time		11:00, 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
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
NT: Near Threatened 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 L1b. Avifauna Species Recorded for Water Birds Monitoring, 4 & 5 November 2024, Low Tide

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		4/11/2024(T1 & T2), 5/11/2024 (T3 & T5)					
					Weather Condition		Sunny, Sunny					
					Tidal Condition		Low					
					Tide Level (m)		0.73, 0.56					
					Start Time		08:30, 08:30					
					Abundance							
					Transect Walk							
					T1	T2	T3	T5				
			WAL	DAL	SWH	P	Heard	Flight				
Amur Stonechat	<i>Saxicola stejnegeri</i>	黑喉石鵯	WV					6				
Black-collared Starling	<i>Gracupica nigricollis</i>	黑領椋鳥	R			1		1			2	2
Black-crowned Night Heron	<i>Nycticorax nycticorax</i>	夜鷺	R, WV	LC								
Black-winged Stilt	<i>Himantopus himantopus</i>	黑翅長腳鵯	PM	RC		4	2			117		18
Chinese Pond Heron	<i>Ardeola bacchus</i>	池鷺	R	PRC(RC)	1	4	9	2	3	5		3
Collared Crow	<i>Corvus torquatus</i>	白頸鴉	UR	LC, VU			1					
Common Greenshank	<i>Tringa nebularia</i>	青腳鵯	PM, WV	RC		2	1			9		
Common Myna	<i>Acridotheres tristis</i>	家八哥	UR						3			
Common Sandpiper	<i>Actitis hypoleucos</i>	磯鵯	WV, PM			5	3					
Common Snipe	<i>Gallinago gallinago</i>	扇尾沙錐	WV, PM							25		
Crested Myna	<i>Acridotheres cristatellus</i>	八哥	R		3							
Eastern Cattle Egret	<i>Bubulcus coromandus</i>	牛背鷺	R, PM	(LC)				16	8			
Eastern Yellow Wagtail	<i>Motacilla tschutschensis</i>	東黃鵯	PM, WV						1			
Eurasian Teal	<i>Anas crecca</i>	綠翅鴨	WV	RC							14	
Eurasian Tree Sparrow	<i>Passer montanus</i>	樹麻雀	R						57			14
Garganey	<i>Spatula querquedula</i>	白眉鴨	PM								2	

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		4/11/2024(T1 & T2), 5/11/2024 (T3 & T5)					
					Weather Condition		Sunny, Sunny					
					Tidal Condition		Low					
					Tide Level (m)		0.73, 0.56					
					Start Time		08:30, 08:30					
					Abundance							
					Transect Walk							
					T1	T2	T3	T5				Heard
			WAL	DAL	SWH	P						
Great Cormorant	<i>Phalacrocorax carbo</i>	普通鸕鷀	CWV	PRC	4	1						
Great Egret	<i>Ardea alba</i>	大白鷺	R, WV	PRC(RC)	3	2	4			1		
Green Sandpiper	<i>Tringa ochropus</i>	白腰草鷺	UPM, WV							3		
Grey Heron	<i>Ardea cinerea</i>	蒼鷺	WV	PRC	3	2	7	1		1		
Grey Wagtail	<i>Motacilla cinerea</i>	灰鶺鴒	WV						2			
Large-billed Crow	<i>Corvus macrorhynchus</i>	大嘴烏鴉	R				1					2
Little Bunting	<i>Emberiza pusilla</i>	小鵪鶉	CPM, WV						1			
Little Egret	<i>Egretta garzetta</i>	小白鷺	R	PRC(RC)	2	8	5	1	6	7		
Little Grebe	<i>Tachybaptus ruficollis</i>	小鸕鷀	R	LC							4	
Little Ringed Plover	<i>Charadrius dubius</i>	金眶鸕	WV, PM	LC		11						
Long-tailed Shrike	<i>Lanius schach</i>	棕背伯勞	R									
Marsh Sandpiper	<i>Tringa stagnatilis</i>	澤鷺	PM, WV	RC						4		
Northern Shoveler	<i>Spatula clypeata</i>	琵嘴鴨	WV	RC							65	
Olive-backed Pipit	<i>Anthus hodgsoni</i>	樹鷺	WV						1			
Oriental Magpie	<i>Pica serica</i>	喜鵲	R					2	4			
Oriental Magpie-Robin	<i>Copsychus saularis</i>	鵲鴝	R									
Pied Avocet	<i>Recurvirostra avosetta</i>	反嘴鷺	WV	RC						13	2	

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		4/11/2024(T1 & T2), 5/11/2024 (T3 & T5)						
					Weather Condition		Sunny, Sunny						
					Tidal Condition		Low						
					Tide Level (m)		0.73, 0.56						
					Start Time		08:30, 08:30						
					Abundance								
					Transect Walk								
					T1	T2	T3	T5				Heard	Flight
			WAL	DAL	SWH	P							
Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	紅耳鶇	R										
Richard's Pipit	<i>Anthus richardi</i>	理氏鶇	WV, PM				3						
Rock Dove	<i>Columba livia</i>	原鴿	R		16		19						
Rose-ringed Parakeet	<i>Psittacula krameri</i>	紅領綠鸚鵡	SR							9			
Scaly-breasted Munia	<i>Lonchura punctulata</i>	斑文鳥	R				63			31			
Spotted Dove	<i>Streptopelia chinensis</i>	珠頸斑鳩	R		3	2	2	5		2			
White Wagtail	<i>Motacilla alba</i>	白鶇鶇	PM, WV		3	2	2	1	16		6		
White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	白胸苦惡鳥	R						1				
White-throated Kingfisher	<i>Halcyon smyrnensis</i>	白胸翡翠	R	(LC)			1	1	1		1		
Wood Sandpiper	<i>Tringa glareola</i>	林鶇	PM, WV	LC					18				
Yellow-breasted Bunting	<i>Emberiza aureola</i>	黃胸鶇	PM	CR, RC					3				
Total No. of Species					9	13	12	6	19	13	5	1	10
Total No. of Conservation Interest Species					5	8	8	4	5	10	4	0	3

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		4/11/2024(T1 & T2), 5/11/2024 (T3 & T5)								
					Weather Condition		Sunny, Sunny								
					Tidal Condition		Low								
					Tide Level (m)		0.73, 0.56								
					Start Time		08:30, 08:30								
					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
Status was decided according to AFCD biodiversity website (www.hkbiodiversity.net)
Cap. 170: All bird species are under protection of Wild Animals Protection Ordinance
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CR: Rare in China Red Data Book Status
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WAL: Wet Agricultural Land DAL: Dry Agricultural Land SWH: Shallow Water Habitat P: Pond

Appendix L1c. Avifauna Species Recorded for Water Birds Monitoring, 12 & 15 November 2024, High Tide

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		12/11/2024 (T1 & T2), 15/11/2024 (T3 & T5)									
					Weather Condition		Sunny, Rainy									
					Tidal Condition		High									
					Tide Level (m)		2.11, 2.09									
					Start Time		08:30, 09:00									
					Abundance							Transect Walk				
					T1	T2	T3									
								WAL	DAL	SWH	P	Heard	Flight			
Amur Stonechat	<i>Saxicola stejnegeri</i>	黑喉石鵯	WV					4								
Barn Swallow	<i>Hirundo rustica</i>	家燕	PM, Sv					14			7					
Besra	<i>Accipiter virgatus</i>	松雀鷹	R, CPM	Cap.586				1								
Black-collared Starling	<i>Gracupica nigricollis</i>	黑領椋鳥	R			1		4		4						
Black-winged Stilt	<i>Himantopus himantopus</i>	黑翅長腳鸕	PM	RC		8	2	21	10	113	13					
Chinese Pond Heron	<i>Ardeola bacchus</i>	池鷺	R	PRC(RC)	2	6	3	2	9	6	1					
Common Greenshank	<i>Tringa nebularia</i>	青腳鸕	PM, WV	RC				2		2						
Common Kingfisher	<i>Alcedo atthis</i>	普通翠鳥	R					1								
Common Sandpiper	<i>Actitis hypoleucos</i>	磯鸕	WV, PM		2	3	5			2						
Common Snipe	<i>Gallinago gallinago</i>	扇尾沙錐	WV, PM						14		4					
Crested Myna	<i>Acridotheres cristatellus</i>	八哥	R					61			7					
Daurian Redstart	<i>Phoenicurus aureoreus</i>	北紅尾鵯	WV					1								
Dusky Warbler	<i>Phylloscopus fuscatus</i>	褐柳鶯	PM, WV					1								
Eastern Cattle Egret	<i>Bubulcus coromandus</i>	牛背鷺	R, PM	(LC)			2		17							
Eurasian Teal	<i>Anas crecca</i>	綠翅鴨	WV	RC						36						
Eurasian Tree Sparrow	<i>Passer montanus</i>	樹麻雀	R					67			76					

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		12/11/2024 (T1 & T2), 15/11/2024 (T3 & T5)					
					Weather Condition		Sunny, Rainy					
					Tidal Condition		High					
					Tide Level (m)		2.11, 2.09					
					Start Time		08:30, 09:00					
					Abundance							
					Transect Walk							
					T1	T2	T3	WAL	DAL	SWH	P	Heard
Garganey	<i>Spatula querquedula</i>	白眉鴨	PM							6		
Great Cormorant	<i>Phalacrocorax carbo</i>	普通鸕鶿	CWV	PRC	4							
Great Egret	<i>Ardea alba</i>	大白鷺	R, WV	PRC(RC)		1	5		1	5		2
Grey Heron	<i>Ardea cinerea</i>	蒼鷺	WV	PRC	2	2						
Grey Wagtail	<i>Motacilla cinerea</i>	灰鵲鴝	WV					2				
House Swift	<i>Apus nipalensis</i>	小白腰雨燕	SpM, R									14
Little Egret	<i>Egretta garzetta</i>	小白鷺	R	PRC(RC)		9	9		7	13		3
Little Ringed Plover	<i>Charadrius dubius</i>	金眶鸕	WV, PM	LC		8						
Marsh Sandpiper	<i>Tringa stagnatilis</i>	澤鵲	PM, WV	RC						2		
Masked Laughingthrush	<i>Pterorhinus perspicillatus</i>	黑臉噪鵲	R						3			
Northern Shoveler	<i>Spatula clypeata</i>	琵嘴鴨	WV	RC							62	7
Olive-backed Pipit	<i>Anthus hodgsoni</i>	樹鵲	WV						1			
Oriental Magpie-Robin	<i>Copsychus saularis</i>	鵲鴝	R						1			
Oriental Turtle Dove	<i>Streptopelia orientalis</i>	山斑鳩	WV, PM						2			
Pied Avocet	<i>Recurvirostra avosetta</i>	反嘴鵲	WV	RC					2	27	11	11
Red-rumped Swallow	<i>Cecropis daurica</i>	金腰燕	UPM									4
Red-throated Pipit	<i>Anthus cervinus</i>	紅喉鵲	CPM, WV	RC					1			

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		12/11/2024 (T1 & T2), 15/11/2024 (T3 & T5)						
					Weather Condition		Sunny, Rainy						
					Tidal Condition		High						
					Tide Level (m)		2.11, 2.09						
					Start Time		08:30, 09:00						
					Abundance								
					Transect Walk								
					T1	T2	T3	WAL	DAL	SWH	P	Heard	Flight
Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	紅耳鶇	R									3	
Richard's Pipit	<i>Anthus richardi</i>	理氏鶇	WV, PM					4					
Rock Dove	<i>Columba livia</i>	原鴿	R					57					
Scaly-breasted Munia	<i>Lonchura punctulata</i>	斑文鳥	R					57				92	
Spotted Dove	<i>Streptopelia chinensis</i>	珠頸斑鳩	R		2	4		9				3	
Tundra Bean Goose	<i>Anser serrirostris</i>	凍原豆雁	UPM	LC(R)				1					
White Wagtail	<i>Motacilla alba</i>	白鶇鶇	PM, WV		4	5	6	17				4	
White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	白胸苦惡鳥	R					1		2			
White-throated Kingfisher	<i>Halcyon smyrnensis</i>	白胸翡翠	R	(LC)				3					
Wood Sandpiper	<i>Tringa glareola</i>	林鶇	PM, WV	LC						7			
Yellow-bellied Prinia	<i>Prinia flaviventris</i>	黃腹鷓鴣	R									1	
Yellow-breasted Bunting	<i>Emberiza aureola</i>	黃胸鶇	PM	CR, RC				2					
Zitting Cisticola	<i>Cisticola juncidis</i>	棕扇尾鶇	PM, WV	LC				1					
Total No. of Species					6	9	8	4	30	11	4	2	16
Total No. of Conservation Interest Species					3	6	5	3	12	8	3	0	6

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		12/11/2024 (T1 & T2), 15/11/2024 (T3 & T5)									
					Weather Condition		Sunny, Rainy									
					Tidal Condition		High									
					Tide Level (m)		2.11, 2.09									
					Start Time		08:30, 09:00									
					Abundance											
					Transect Walk											
					T1	T2	T3									
								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
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
NT: Near Threatened 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, 12 & 15 November 2024, Low Tide

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		12/11/2024 (T1 & T2), 15/11/2024 (T3 & T5)									
					Weather Condition		Sunny, Rainy									
					Tidal Condition		Low									
					Tide Level (m)		0.75, 1.31									
					Start Time		13:00, 14:00									
					Abundance											
					Transect Walk											
					T1	T2	T3	T5					Heard	Flight		
			WAL	DAL	SWH	P										
Amur Stonechat	<i>Saxicola stejnegeri</i>	黑喉石鵲	WV				1	2								
Black Kite	<i>Milvus migrans</i>	黑鳶	R, WV	Cap.586, LC								1				
Black-collared Starling	<i>Gracupica nigricollis</i>	黑領椋鳥	R			1	2	2	3			2	1			
Black-crowned Night Heron	<i>Nycticorax nycticorax</i>	夜鷺	R, WV	LC		1										
Black-winged Stilt	<i>Himantopus himantopus</i>	黑翅長腳鵲	PM	RC			6	38	3	86			5			
Chinese Pond Heron	<i>Ardeola bacchus</i>	池鷺	R	PRC(RC)	4	10	7		5	2			4			
Collared Crow	<i>Corvus torquatus</i>	白頸鴉	UR	LC, VU			1									
Common Greenshank	<i>Tringa nebularia</i>	青腳鵲	PM, WV	RC			5	2	2							
Common Sandpiper	<i>Actitis hypoleucos</i>	磯鵲	WV, PM			1	5			9			1			
Common Snipe	<i>Gallinago gallinago</i>	扇尾沙錐	WV, PM						9							
Crested Myna	<i>Acridotheres cristatellus</i>	八哥	R				2		17				10			
Daurian Redstart	<i>Phoenicurus aureus</i>	北紅尾鵲	WV						2							
Dusky Warbler	<i>Phylloscopus fuscatus</i>	褐柳鶯	PM, WV						4							
Eastern Cattle Egret	<i>Bubulcus coromandus</i>	牛背鷺	R, PM	(LC)				10	2	1						
Eastern Yellow Wagtail	<i>Motacilla tschutschensis</i>	東黃鵲鶉	PM, WV					1								
Eurasian Teal	<i>Anas crecca</i>	綠翅鴨	WV	RC				4			58					

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		12/11/2024 (T1 & T2), 15/11/2024 (T3 & T5)					
					Weather Condition		Sunny, Rainy					
					Tidal Condition		Low					
					Tide Level (m)		0.75, 1.31					
					Start Time		13:00, 14:00					
					Abundance							
					Transect Walk							
					T1	T2	T3	T5				
								WAL	DAL	SWHP	Heard	Flight
Eurasian Tree Sparrow	<i>Passer montanus</i>	樹麻雀	R					105				82
Garganey	<i>Spatula querquedula</i>	白眉鴨	PM				6					
Great Egret	<i>Ardea alba</i>	大白鷺	R, WV	PRC(RC)		11	3	1				
Grey Heron	<i>Ardea cinerea</i>	蒼鷺	WV	PRC	2	2	8			1		2
Grey Wagtail	<i>Motacilla cinerea</i>	灰鶺鴒	WV					3				
Little Egret	<i>Egretta garzetta</i>	小白鷺	R	PRC(RC)	1	21	13	4	11	4		5
Little Grebe	<i>Tachybaptus ruficollis</i>	小鸕鶿	R	LC							5	
Little Ringed Plover	<i>Charadrius dubius</i>	金眶鴝	WV, PM	LC		6						
Long-tailed Shrike	<i>Lanius schach</i>	棕背伯勞	R					1				
Marsh Sandpiper	<i>Tringa stagnatilis</i>	澤鶺鴒	PM, WV	RC						1		
Masked Laughingthrush	<i>Pterorhinus perspicillatus</i>	黑臉噪鶇	R					3				
Northern Lapwing	<i>Vanellus vanellus</i>	鳳頭麥雞	SWV	NT, LC			2					
Northern Shoveler	<i>Spatula clypeata</i>	琵嘴鴨	WV	RC							58	6
Olive-backed Pipit	<i>Anthus hodgsoni</i>	樹鶺鴒	WV				1	8				
Oriental Turtle Dove	<i>Streptopelia orientalis</i>	山斑鳩	WV, PM					1				
Pied Avocet	<i>Recurvirostra avosetta</i>	反嘴鶺鴒	WV	RC						10	32	
Red-rumped Swallow	<i>Cecropis daurica</i>	金腰燕	UPM									3

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		12/11/2024 (T1 & T2), 15/11/2024 (T3 & T5)						
					Weather Condition		Sunny, Rainy						
					Tidal Condition		Low						
					Tide Level (m)		0.75, 1.31						
					Start Time		13:00, 14:00						
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Red-throated Pipit	<i>Anthus cervinus</i>	紅喉鵯	CPM, WV	RC				2					
Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	紅耳鶇	R		4								
Richard's Pipit	<i>Anthus richardi</i>	理氏鵯	WV, PM					4					
Rock Dove	<i>Columba livia</i>	原鴿	R			12		39			5		
Scaly-breasted Munia	<i>Lonchura punctulata</i>	斑文鳥	R					69			158		
Spotted Dove	<i>Streptopelia chinensis</i>	珠頸斑鳩	R		3	4	8	3			2		
Tundra Bean Goose	<i>Anser serrirostris</i>	凍原豆雁	UPM	LC(R)				1					
White Wagtail	<i>Motacilla alba</i>	白鶇鶇	PM, WV		3	3	9	1	26		2		
White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	白胸苦惡鳥	R				3	3					
White-throated Kingfisher	<i>Halcyon smyrnensis</i>	白胸翡翠	R	(LC)					1				
Wood Sandpiper	<i>Tringa glareola</i>	林鵯	PM, WV	LC					7		1		
Yellow-breasted Bunting	<i>Emberiza aureola</i>	黃胸鵯	PM	CR, RC				3					
Zitting Cisticola	<i>Cisticola juncidis</i>	棕扇尾鶯	PM, WV	LC				1					
Total No. of Species					6	11	16	10	27	10	4	1	16
Total No. of Conservation Interest Species					3	6	8	6	9	9	4	0	7

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		12/11/2024 (T1 & T2), 15/11/2024 (T3 & T5)									
					Weather Condition		Sunny, Rainy									
					Tidal Condition		Low									
					Tide Level (m)		0.75, 1.31									
					Start Time		13:00, 14:00									
					Abundance											
					Transect Walk											
								T5								
					T1	T2	T3	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
Status was decided according to AFCD biodiversity website (www.hkbiodiversity.net)
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WAL: Wet Agricultural Land DAL: Dry Agricultural Land SWH: Shallow Water Habitat P: Pond

Appendix L1e. Avifauna Species Recorded for Water Birds Monitoring, 19 & 21 November 2024, High Tide

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		19/11/2024 (T1 & T2), 21/11/2024 (T3 & T5)						
					Weather Condition		Rainy, Cloudy						
					Tidal Condition		High						
					Tide Level (m)		1.73, 1.51						
					Start Time		13:00, 14:00						
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					Heard
			WAL	DAL	SWH	P							
Amur Stonechat	<i>Saxicola stejnegeri</i>	黑喉石鵯	WV			1		3					
Black Kite	<i>Milvus migrans</i>	黑鳶	R, WV	Cap.586, LC	1							1	
Black-collared Starling	<i>Gracupica nigricollis</i>	黑領椋鳥	R					8			1	3	
Black-winged Stilt	<i>Himantopus himantopus</i>	黑翅長腳鵯	PM	RC			24		113				
Chinese Bulbul	<i>Pycnonotus sinensis</i>	白頭鶇	R					2					
Chinese Pond Heron	<i>Ardeola bacchus</i>	池鷺	R	PRC(RC)	2	4	1	3	2			1	
Collared Crow	<i>Corvus torquatus</i>	白頸鴉	UR	LC, VU			1						
Common Greenshank	<i>Tringa nebularia</i>	青腳鵯	PM, WV	RC			2		2				
Common Kingfisher	<i>Alcedo atthis</i>	普通翠鳥	R									1	
Common Moorhen	<i>Gallinula chloropus</i>	黑水雞	R						1				
Common Myna	<i>Acridotheres tristis</i>	家八哥	UR					3					
Common Sandpiper	<i>Actitis hypoleucos</i>	磯鵯	WV, PM			3	1						
Common Snipe	<i>Gallinago gallinago</i>	扇尾沙錐	WV, PM						12				
Crested Myna	<i>Acridotheres cristatellus</i>	八哥	R					19				5	
Daurian Redstart	<i>Phoenicurus aureoreus</i>	北紅尾鵯	WV					1					
Dusky Warbler	<i>Phylloscopus fuscatus</i>	褐柳鶯	PM, WV					1					

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		19/11/2024 (T1 & T2), 21/11/2024 (T3 & T5)					
					Weather Condition		Rainy, Cloudy					
					Tidal Condition		High					
					Tide Level (m)		1.73, 1.51					
					Start Time		13:00, 14:00					
					Abundance							
					Transect Walk							
					T1	T2	T3	T5				
			WAL	DAL	SWH	P	Heard	Flight				
Eastern Cattle Egret	<i>Bubulcus coromandus</i>	牛背鷺	R, PM	(LC)			1	8	8			
Eastern Yellow Wagtail	<i>Motacilla tschutschensis</i>	東黃鵪鶉	PM, WV						1			
Eurasian Teal	<i>Anas crecca</i>	綠翅鴨	WV	RC						7	33	
Eurasian Tree Sparrow	<i>Passer montanus</i>	樹麻雀	R						63			
Eurasian Wryneck	<i>Jynx torquilla</i>	蟻鴛	UPM, WV						1			
Garganey	<i>Spatula querquedula</i>	白眉鴨	PM								4	
Great Egret	<i>Ardea alba</i>	大白鷺	R, WV	PRC(RC)	3	4	3					
Greater Painted-snipe	<i>Rostratula benghalensis</i>	彩鸛	R	LC						2		
Grey Heron	<i>Ardea cinerea</i>	蒼鷺	WV	PRC	3	5	5		1	1		1
Grey Wagtail	<i>Motacilla cinerea</i>	灰鵪鶉	WV						1			1
Little Egret	<i>Egretta garzetta</i>	小白鷺	R	PRC(RC)	2	7	5	2	5	6		3
Little Ringed Plover	<i>Charadrius dubius</i>	金眶鸛	WV, PM	LC					5			
Marsh Sandpiper	<i>Tringa stagnatilis</i>	澤鸛	PM, WV	RC				1	2			
Masked Laughingthrush	<i>Pterorhinus perspicillatus</i>	黑臉噪鷓	R						4			3
Northern Shoveler	<i>Spatula clypeata</i>	琵嘴鴨	WV	RC							66	
Olive-backed Pipit	<i>Anthus hodgsoni</i>	樹鷓	WV				4		2			
Oriental Magpie	<i>Pica serica</i>	喜鵲	R						3			1 3

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		19/11/2024 (T1 & T2), 21/11/2024 (T3 & T5)						
					Weather Condition		Rainy, Cloudy						
					Tidal Condition		High						
					Tide Level (m)		1.73, 1.51						
					Start Time		13:00, 14:00						
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
			WAL	DAL	SWH	P	Heard	Flight					
Oriental Reed Warbler	<i>Acrocephalus orientalis</i>	東方大葦鶯	CPM				1						
Pied Avocet	<i>Recurvirostra avosetta</i>	反嘴鹮	WV	RC				11	14	7			
Red-rumped Swallow	<i>Cecropis daurica</i>	金腰燕	UPM							10			
Red-throated Pipit	<i>Anthus cervinus</i>	紅喉鸚	CPM, WV	RC			5						
Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	紅耳鶇	R		2								
Richard's Pipit	<i>Anthus richardi</i>	理氏鸚	WV, PM				5						
Rock Dove	<i>Columba livia</i>	原鴿	R			23		14					
Scaly-breasted Munia	<i>Lonchura punctulata</i>	斑文鳥	R					138		104			
Spotted Dove	<i>Streptopelia chinensis</i>	珠頸斑鳩	R		5	3	1	15		1			
Tundra Bean Goose	<i>Anser serrirostris</i>	凍原豆雁	UPM	LC(R)				1					
White Wagtail	<i>Motacilla alba</i>	白鶇鶇	PM, WV		2	4	4	3	13	1			
White-throated Kingfisher	<i>Halcyon smyrnensis</i>	白胸翡翠	R	(LC)				1					
Wood Sandpiper	<i>Tringa glareola</i>	林鶇	PM, WV	LC					2				
Yellow-bellied Prinia	<i>Prinia flaviventris</i>	黃腹鷓鴣	R							1			
Yellow-breasted Bunting	<i>Emberiza aureola</i>	黃胸鶇	PM	CR, RC				2					
Total No. of Species					8	8	12	5	30	12	4	4	13
Total No. of Conservation Interest Species					5	4	7	4	10	9	3	0	5

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		19/11/2024 (T1 & T2), 21/11/2024 (T3 & T5)									
					Weather Condition		Rainy, Cloudy									
					Tidal Condition		High									
					Tide Level (m)		1.73, 1.51									
					Start Time		13:00, 14:00									
					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
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WAL: Wet Agricultural Land DAL: Dry Agriculture Land SWH: Shallow Water Habitat P: Pond

Appendix L1f. Avifauna Species Recorded for Water Birds Monitoring, 19 & 21 November 2024, Low Tide

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		19/11/2024 (T1 & T2), 21/11/2024 (T3 & T5)							
					Weather Condition		Rainy, Rainy							
					Tidal Condition		Low							
					Tide Level (m)		0.32, 0.44							
					Start Time		09:00, 09:00							
					Abundance									
					Transect Walk									
					T1	T2	T3	T5					Heard	Flight
			WAL	DAL	SWH	P								
Amur Stonechat	<i>Saxicola stejnegeri</i>	黑喉石鵯	WV					6						
Barn Swallow	<i>Hirundo rustica</i>	家燕	PM, Sv										9	
Black-collared Starling	<i>Gracupica nigricollis</i>	黑領棕鳥	R					4			4			
Black-winged Stilt	<i>Himantopus himantopus</i>	黑翅長腳鵯	PM	RC			2	9	3	129				
Chinese Pond Heron	<i>Ardeola bacchus</i>	池鷺	R	PRC(RC)	1	3	1	1	6	3			4	
Collared Crow	<i>Corvus torquatus</i>	白頸鴉	UR	LC, VU			2							
Common Greenshank	<i>Tringa nebularia</i>	青腳鵯	PM, WV	RC			4			4				
Common Kingfisher	<i>Alcedo atthis</i>	普通翠鳥	R						1	1			1	
Common Sandpiper	<i>Actitis hypoleucos</i>	磯鵯	WV, PM			3	3			1			1	
Common Snipe	<i>Gallinago gallinago</i>	扇尾沙錐	WV, PM							11				
Crested Myna	<i>Acridotheres cristatellus</i>	八哥	R						10				3	
Daurian Redstart	<i>Phoenicurus aureoreus</i>	北紅尾鵯	WV						2					
Eastern Cattle Egret	<i>Bubulcus coromandus</i>	牛背鷺	R, PM	(LC)				5	18					
Eastern Yellow Wagtail	<i>Motacilla tschutschensis</i>	東黃鵯	PM, WV						2					
Eurasian Teal	<i>Anas crecca</i>	綠翅鴨	WV	RC						22	24			
Eurasian Tree Sparrow	<i>Passer montanus</i>	樹麻雀	R						105				60	
Great Cormorant	<i>Phalacrocorax carbo</i>	普通鸕鶿	CWV	PRC	4	1								

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		19/11/2024 (T1 & T2), 21/11/2024 (T3 & T5)					
					Weather Condition		Rainy, Rainy					
					Tidal Condition		Low					
					Tide Level (m)		0.32, 0.44					
					Start Time		09:00, 09:00					
					Abundance							
					Transect Walk							
					T1	T2	T3	T5				
			WAL	DAL	SWH	P	Heard	Flight				
Great Egret	<i>Ardea alba</i>	大白鷺	R, WV	PRC(RC)	1	3	3	1				
Grey Heron	<i>Ardea cinerea</i>	蒼鷺	WV	PRC	2	2	4			1		1
Grey Wagtail	<i>Motacilla cinerea</i>	灰鵲鶉	WV				2		6			
Little Egret	<i>Egretta garzetta</i>	小白鷺	R	PRC(RC)	4	4	6	4	7	8		1
Little Grebe	<i>Tachybaptus ruficollis</i>	小鸕鶿	R	LC							2	
Little Ringed Plover	<i>Charadrius dubius</i>	金眶鸕	WV, PM	LC					11			
Long-tailed Shrike	<i>Lanius schach</i>	棕背伯勞	R						1			
Marsh Sandpiper	<i>Tringa stagnatilis</i>	澤鵲	PM, WV	RC						8		
Masked Laughingthrush	<i>Pterorhinus perspicillatus</i>	黑臉噪鶇	R			1						
Northern Shoveler	<i>Spatula clypeata</i>	琵嘴鴨	WV	RC							68	
Olive-backed Pipit	<i>Anthus hodgsoni</i>	樹鵲	WV						4			
Oriental Magpie	<i>Pica serica</i>	喜鵲	R				3				1	2
Oriental Magpie-Robin	<i>Copsychus saularis</i>	鵲鶉	R						4			
Oriental Reed Warbler	<i>Acrocephalus orientalis</i>	東方大葦鶯	CPM						1			
Pied Avocet	<i>Recurvirostra avosetta</i>	反嘴鵲	WV	RC						30	4	
Red-throated Pipit	<i>Anthus cervinus</i>	紅喉鵲	CPM, WV	RC					1			
Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	紅耳鶇	R									4

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		19/11/2024 (T1 & T2), 21/11/2024 (T3 & T5)								
					Weather Condition		Rainy, Rainy								
					Tidal Condition		Low								
					Tide Level (m)		0.32, 0.44								
					Start Time		09:00, 09:00								
					Abundance										
					Transect Walk										
					T1	T2	T3	T5							
								WAL	DAL	SWH	P	Heard	Flight		
Richard's Pipit	<i>Anthus richardi</i>	理氏鸚	WV, PM					9							
Rock Dove	<i>Columba livia</i>	原鴿	R		11			15							
Scaly-breasted Munia	<i>Lonchura punctulata</i>	斑文鳥	R					43					72		
Spotted Dove	<i>Streptopelia chinensis</i>	珠頸斑鳩	R		1	2	4		11				7		
White Wagtail	<i>Motacilla alba</i>	白鵲鴿	PM, WV		4	2	4	2	22						
White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	白胸苦惡鳥	R							2					
White-throated Kingfisher	<i>Halcyon smyrnensis</i>	白胸翡翠	R	(LC)			1		1						
Wood Sandpiper	<i>Tringa glareola</i>	林鵲	PM, WV	LC			1			3					
Total No. of Species					7	10	14	6	24	13	4	2	12		
Total No. of Conservation Interest Species					5	5	9	5	7	9	4	0	3		

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date			19/11/2024 (T1 & T2), 21/11/2024 (T3 & T5)							
					Weather Condition			Rainy, Rainy							
					Tidal Condition			Low							
					Tide Level (m)			0.32, 0.44							
					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
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
NT: Near Threatened 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, 28 & 29 November 2024, High Tide

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		28/11/2024 (T1 & T2), 29/11/2024 (T3 & T5)					
					Weather Condition		Sunny, Sunny					
					Tidal Condition		High					
					Tide Level (m)		1.75, 1.68					
					Start Time		09:00, 09:00					
					Abundance							
					Transect Walk							
					T1	T2	T3	T5			WAL	DAL
Amur Stonechat	<i>Saxicola stejnegeri</i>	黑喉石鵯	WV					2				
Black-collared Starling	<i>Gracupica nigricollis</i>	黑領棕鳥	R					4			2	
Black Kite	<i>Milvus migrans</i>	黑鳶	R, WV	Cap.586, LC								1
Black-winged Stilt	<i>Himantopus himantopus</i>	黑翅長腳鵯	PM	RC				96				14
Chinese Pond Heron	<i>Ardeola bacchus</i>	池鷺	R	PRC(RC)	2	5	2	2	2	3		1
Collared Crow	<i>Corvus torquatus</i>	白頸鴉	UR	LC, VU			1					
Common Greenshank	<i>Tringa nebularia</i>	青腳鵯	PM, WV	RC				6				
Common Sandpiper	<i>Actitis hypoleucos</i>	磯鵯	WV, PM		1	1	4			1		
Common Snipe	<i>Gallinago gallinago</i>	扇尾沙錐	WV, PM					15				
Daurian Redstart	<i>Phoenicurus auroreus</i>	北紅尾鴝	WV									1
Dusky Warbler	<i>Phylloscopus fuscatus</i>	褐柳鶯	PM, WV					1				
Eastern Cattle Egret	<i>Bubulcus coromandus</i>	牛背鷺	R, PM	(LC)		1						
Eurasian Teal	<i>Anas crecca</i>	綠翅鴨	WV	RC						24		
Eurasian Tree Sparrow	<i>Passer montanus</i>	樹麻雀	R					50				
Garganey	<i>Spatula querquedula</i>	白眉鴨	PM							2		
Great Egret	<i>Ardea alba</i>	大白鷺	R, WV	PRC(RC)	2	2	3			3		
Greater Painted-snipe	<i>Rostratula benghalensis</i>	彩鵯	R	LC						2		

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		28/11/2024 (T1 & T2), 29/11/2024 (T3 & T5)					
					Weather Condition		Sunny, Sunny					
					Tidal Condition		High					
					Tide Level (m)		1.75, 1.68					
					Start Time		09:00, 09:00					
					Abundance							
					Transect Walk							
					T1	T2	T3	T5				
			WAL	DAL	SWH	P	Heard	Flight				
Grey Heron	<i>Ardea cinerea</i>	蒼鷺	WV	PRC		1	2			1		
Grey Wagtail	<i>Motacilla cinerea</i>	灰鶺鴒	WV					4				
House Swift	<i>Apus nipalensis</i>	小白腰雨燕	SpM, R									15
Little Bunting	<i>Emberiza pusilla</i>	小鵪	CPM, WV					1				
Little Egret	<i>Egretta garzetta</i>	小白鷺	R	PRC(RC)	3	7	5		4	4		2
Little Grebe	<i>Tachybaptus ruficollis</i>	小鸕鶿	R	LC							4	
Little Ringed Plover	<i>Charadrius dubius</i>	金眶鸕	WV, PM	LC		3						
Large-billed Crow	<i>Corvus macrorhynchus</i>	大嘴烏鴉	R									1
Long-tailed Shrike	<i>Lanius schach</i>	棕背伯勞	R					1				
Masked Laughingthrush	<i>Pterorhinus perspicillatus</i>	黑臉噪鶇	R			2						
Marsh Sandpiper	<i>Tringa stagnatilis</i>	澤鶇	PM, WV	RC					2			
Northern Shoveler	<i>Spatula clypeata</i>	琵嘴鴨	WV	RC							54	19
Oriental Magpie-Robin	<i>Copsychus saularis</i>	鶺鴒	R					1				
Oriental Turtle Dove	<i>Streptopelia orientalis</i>	山斑鳩	WV, PM					1				
Oriental Magpie	<i>Pica serica</i>	喜鵲	R					3			2	
Pied Avocet	<i>Recurvirostra avosetta</i>	反嘴鶇	WV	RC						13		
Plain Prinia	<i>Prinia inornata</i>	純色鷓鴣	R					1				

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		28/11/2024 (T1 & T2), 29/11/2024 (T3 & T5)						
					Weather Condition		Sunny, Sunny						
					Tidal Condition		High						
					Tide Level (m)		1.75, 1.68						
					Start Time		09:00, 09:00						
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Red-rumped Swallow	<i>Cecropis daurica</i>	金腰燕	UPM								6		
Red-throated Pipit	<i>Anthus cervinus</i>	紅喉鸚	CPM, WV	RC				2					
Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	紅耳鸚	R		2								
Richard's Pipit	<i>Anthus richardi</i>	理氏鸚	WV, PM					3					
Rock Dove	<i>Columba livia</i>	原鴿	R					10			9		
Scaly-breasted Munia	<i>Lonchura punctulata</i>	斑文鳥	R					116			64		
Spotted Dove	<i>Streptopelia chinensis</i>	珠頸斑鳩	R			1		1					
Tundra Bean Goose	<i>Anser serrirostris</i>	凍原豆雁	UPM	LC(R)					1				
White-throated Kingfisher	<i>Halcyon smyrnensis</i>	白胸翡翠	R	(LC)		1							
White Wagtail	<i>Motacilla alba</i>	白鶺鴒	PM, WV		2	6	4	3	10	2	2		
Wood Sandpiper	<i>Tringa glareola</i>	林鶺鴒	PM, WV	LC					4				
Total No. of Species					6	11	7	2	19	14	4	2	12
Total No. of Conservation Interest Species					3	7	5	1	3	11	3	0	5

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		28/11/2024 (T1 & T2), 29/11/2024 (T3 & T5)									
					Weather Condition		Sunny, Sunny									
					Tidal Condition		High									
					Tide Level (m)		1.75, 1.68									
					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

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

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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 Agriculture Land SWH: Shallow Water Habitat P: Pond

Appendix L1h. Avifauna Species Recorded for Water Birds Monitoring, 28 & 29 November 2024, Low Tide

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		28/11/2024 (T1 & T2), 29/11/2024 (T3 & T5)				
					Weather Condition		Sunny, Sunny				
					Tidal Condition		Low				
					Tide Level (m)		1.23, 1.20				
					Start Time		13:00, 14:00				
					Abundance						
					Transect Walk						
					T1	T2	T3	T5			
			WAL	DAL	SWH	P	Heard	Flight			
Amur Stonechat	<i>Saxicola stejnegeri</i>	黑喉石鵯	WV			1		7			
Barn Swallow	<i>Hirundo rustica</i>	家燕	PM, Sv					2			7
Black-collared Starling	<i>Gracupica nigricollis</i>	黑領椋鳥	R					7		3	4
Black-winged Stilt	<i>Himantopus himantopus</i>	黑翅長腳鵯	PM	RC		1		95			14
Chinese Pond Heron	<i>Ardeola bacchus</i>	池鷺	R	PRC(RC)	4	7	6	1	4	2	1
Collared Crow	<i>Corvus torquatus</i>	白頸鴉	UR	LC, VU			2				
Common Greenshank	<i>Tringa nebularia</i>	青腳鵯	PM, WV	RC			1	1	7		
Common Redshank	<i>Tringa totanus</i>	紅腳鵯	PM	RC						1	
Common Sandpiper	<i>Actitis hypoleucos</i>	磯鵯	WV, PM		1	4	5		6		
Common Snipe	<i>Gallinago gallinago</i>	扇尾沙錐	WV, PM							29	
Daurian Redstart	<i>Phoenicurus aureoreus</i>	北紅尾鴉	WV				1				
Eastern Cattle Egret	<i>Bubulcus coromandus</i>	牛背鷺	R, PM	(LC)					6		
Eastern Yellow Wagtail	<i>Motacilla tschutschensis</i>	東黃鵯	PM, WV				1				
Eurasian Teal	<i>Anas crecca</i>	綠翅鴨	WV	RC							48
Eurasian Tree Sparrow	<i>Passer montanus</i>	樹麻雀	R			3			95		31
Garganey	<i>Spatula querquedula</i>	白眉鴨	PM							1	
Green Sandpiper	<i>Tringa ochropus</i>	白腰草鵯	UPM, WV							2	

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		28/11/2024 (T1 & T2), 29/11/2024 (T3 & T5)					
					Weather Condition		Sunny, Sunny					
					Tidal Condition		Low					
					Tide Level (m)		1.23, 1.20					
					Start Time		13:00, 14:00					
					Abundance							
					Transect Walk							
					T1	T2	T3	T5				
			WAL	DAL	SWH	P	Heard	Flight				
Great Cormorant	<i>Phalacrocorax carbo</i>	普通鸕鷀	CWV	PRC			1					
Great Egret	<i>Ardea alba</i>	大白鷺	R, WV	PRC(RC)	2	3	4		1			
Grey-headed Lapwing	<i>Vanellus cinereus</i>	灰頭麥雞	WV, PM	LC			1					
Grey Heron	<i>Ardea cinerea</i>	蒼鷺	WV	PRC		3	8			2		
Grey Wagtail	<i>Motacilla cinerea</i>	灰鵲鴝	WV						4			
House Swift	<i>Apus nipalensis</i>	小白腰雨燕	SpM, R									7
Little Egret	<i>Egretta garzetta</i>	小白鷺	R	PRC(RC)	3	15	12	1	8	2		1
Little Grebe	<i>Tachybaptus ruficollis</i>	小鸕鷀	R	LC							1	
Little Ringed Plover	<i>Charadrius dubius</i>	金眶鸕	WV, PM	LC		5						
Long-tailed Shrike	<i>Lanius schach</i>	棕背伯勞	R						1			
Masked Laughingthrush	<i>Pterorhinus perspicillatus</i>	黑臉噪鷓	R				3					
Marsh Sandpiper	<i>Tringa stagnatilis</i>	澤鷓	PM, WV	RC			1			2		
Northern Shoveler	<i>Spatula clypeata</i>	琵嘴鴨	WV	RC							54	
Olive-backed Pipit	<i>Anthus hodgsoni</i>	樹鷓	WV						2			
Oriental Magpie	<i>Pica serica</i>	喜鵲	R						2			
Oriental Reed Warbler	<i>Acrocephalus orientalis</i>	東方大葦鷺	CPM									

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		28/11/2024 (T1 & T2), 29/11/2024 (T3 & T5)						
					Weather Condition		Sunny, Sunny						
					Tidal Condition		Low						
					Tide Level (m)		1.23, 1.20						
					Start Time		13:00, 14:00						
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
			WAL	DAL	SWH	P	Heard	Flight					
Pied Avocet	<i>Recurvirostra avosetta</i>	反嘴鷸	WV	RC				13					
Red-rumped Swallow	<i>Cecropis daurica</i>	金腰燕	UPM							20			
Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	紅耳鶇	R		4								
Richard's Pipit	<i>Anthus richardi</i>	理氏鶇	WV, PM				5						
Rock Dove	<i>Columba livia</i>	原鴿	R				70			7			
Scaly-breasted Munia	<i>Lonchura punctulata</i>	斑文鳥	R				201			50			
Spotted Dove	<i>Streptopelia chinensis</i>	珠頸斑鳩	R			2	5						
Tundra Bean Goose	<i>Anser serrirostris</i>	凍原豆雁	UPM	LC(R)				1					
White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	白胸苦惡鳥	R			2		1					
White-throated Kingfisher	<i>Halcyon smyrnensis</i>	白胸翡翠	R	(LC)	1			1					
White Wagtail	<i>Motacilla alba</i>	白鶇鶇	PM, WV		3	5	14	2	19				
Wood Sandpiper	<i>Tringa glareola</i>	林鶇	PM, WV	LC					3				
Yellow-breasted Bunting	<i>Emberiza aureola</i>	黃胸鶇	PM	CR, RC				1					
Total No. of Species					7	8	18	4	21	12	5	1	9
Total No. of Conservation Interest Species					4	5	10	3	7	9	4	0	2

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		28/11/2024 (T1 & T2), 29/11/2024 (T3 & T5)									
					Weather Condition		Sunny, Sunny									
					Tidal Condition		Low									
					Tide Level (m)		1.23, 1.20									
					Start Time		13:00, 14:00									
					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
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
NT: Near Threatened 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 (Fellows 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, Night Survey, 5 November 2024, T5

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date: 5/11/2024							
					Start Time: 19:00							
					Abundance							
						WAL	DAL	SWH	P	Heard	Flight	
Black-winged Stilt	<i>Himantopus himantopus</i>	黑翅長腳鷸	PM	RC				120				17
Chinese Pond Heron	<i>Ardeola bacchus</i>	池鷺	R	PRC(RC)				1				
Common Greenshank	<i>Tringa nebularia</i>	青腳鷸	PM, WV	RC				5				
Common Snipe	<i>Gallinago gallinago</i>	扇尾沙錐	WV, PM					10				
Great Egret	<i>Ardea alba</i>	大白鷺	R, WV	PRC(RC)				1				
Grey Heron	<i>Ardea cinerea</i>	蒼鷺	WV	PRC			2					
Little Egret	<i>Egretta garzetta</i>	小白鷺	R	PRC(RC)			7	2				
Marsh Sandpiper	<i>Tringa stagnatilis</i>	澤鷸	PM, WV	RC				2				
Pied Avocet	<i>Recurvirostra avosetta</i>	反嘴鷸	WV	RC				4				
White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	白胸苦惡鳥	R									
Wood Sandpiper	<i>Tringa glareola</i>	林鷸	PM, WV	LC				19				
Total No. of Species							0	2	9	0	0	1
Total No. of Conservation Interest Species							0	2	8	0	0	1
<p>Note:</p> <p>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 Status was decided according to AFCD biodiversity website (www.hkbiodiversity.net)</p> <p>Cap. 170: All bird species are under protection of Wild Animals Protection Ordinance</p> <p>Cap.586 : Endangered Species of Animals and Plants Ordinance (Cap.586)</p> <p>CR: Rare in China Red Data Book Status</p> <p>VU: Vulnerable in IUCN Red List Status</p> <p>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))</p> <p>WAL: Wet Agricultural Land</p> <p>DAL: Dry Agricultural Land</p> <p>SWH: Shallow Water Habitat</p> <p>P: Pond</p>												

Appendix L1j. Avifauna Species Recorded for Water Birds Monitoring, Night Survey, 15 November 2024, T5

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date: 15/11/2024					
					Start Time: 18:30					
					Abundance					
WAL	DAL	SWH	P	Heard	Flight					
Black-collared Starling	<i>Gracupica nigricollis</i>	黑領棕鳥	R			6			3	
Black-winged Stilt	<i>Himantopus himantopus</i>	黑翅長腳鷸	PM	RC	10		113		5	3
Chinese Pond Heron	<i>Ardeola bacchus</i>	池鷺	R	PRC(RC)		2	1			1
Common Greenshank	<i>Tringa nebularia</i>	青腳鷸	PM, WV	RC			6			
Common Snipe	<i>Gallinago gallinago</i>	扇尾沙錐	WV, PM		2		5			2
Crested Myna	<i>Acridotheres cristatellus</i>	八哥	R			7				4
Eurasian Teal	<i>Anas crecca</i>	綠翅鴨	WV	RC				10		
Eurasian Tree Sparrow	<i>Passer montanus</i>	樹麻雀	R			20				
Great Egret	<i>Ardea alba</i>	大白鷺	R, WV	PRC(RC)		3				2
Little Egret	<i>Egretta garzetta</i>	小白鷺	R	PRC(RC)		23	3			2
Marsh Sandpiper	<i>Tringa stagnatilis</i>	澤鷸	PM, WV	RC			2			
Northern Shoveler	<i>Spatula clypeata</i>	琵嘴鴨	WV	RC				15		
Pied Avocet	<i>Recurvirostra avosetta</i>	反嘴鷸	WV	RC			20			
Wood Sandpiper	<i>Tringa glareola</i>	林鷸	PM, WV	LC			15			
Total No. of Species					2	6	8	2	2	6
Total No. of Conservation Interest Species					1	3	7	2	1	4
<p>Note:</p> <p>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 Status was decided according to AFCD biodiversity website (www.hkbiodiversity.net)</p> <p>Cap. 170: All bird species are under protection of Wild Animals Protection Ordinance</p> <p>Cap.586 : Endangered Species of Animals and Plants Ordinance (Cap.586)</p> <p>CR: Rare in China Red Data Book Status</p> <p>VU: Vulnerable in IUCN Red List Status</p> <p>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))</p> <p>WAL: Wet Agricultural Land DAL: Dry Agricultural Land SWH: Shallow Water Habitat P: Pond</p>										

Appendix L1k, Waterbirds Recorded in November 2024

Common Name	Species Name	Chinese Name	Conservation Status	Recorded habitat from the survey	Distribution in Hong Kong*
Black-crowned Night Heron	<i>Nycticorax nycticorax</i>	夜鷺	LC	T2: River bank	Common resident and winter visitor. Widely distributed in Hong Kong.
Black-winged Stilt	<i>Himantopus himantopus</i>	黑翅長腳鷸	RC	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 passage migrant. Found in Deep Bay area, Long Valley, Kam Tin.
Chinese Pond Heron	<i>Ardeola bacchus</i>	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, Pond, In flight	Common resident. Widely distributed in Hong Kong.
Common Greenshank	<i>Tringa nebularia</i>	青腳鷸	RC	T2: River bank T3: River bank, River bed T5: Wet Agricultural Land, Dry Agricultural Land, Shallow Water Habitat	Abundant winter visitor and migrant. Found in Deep Bay area.
Common Kingfisher	<i>Alcedo atthis</i>	普通翠鳥		T5: Dry Agricultural Land, Shallow Water Habitat, In flight	Common passage migrant and winter visitor. Widely distributed in wetland habitat throughout Hong Kong.
Common Moorhen	<i>Gallinula chloropus</i>	黑水雞		T5: Shallow Water Habitat	Common winter visitor, resident and migrant. Found in Deep Bay area, Shuen Wan, Starling Inlet.
Common Sandpiper	<i>Actitis hypoleucos</i>	磯鷸		T1: River bank T2: River bank T3: River bank T5: Dry Agricultural Land, Shallow Water Habitat, In flight	Common passage migrant and winter visitor. Widely distributed in wetland area throughout Hong Kong.
Common Snipe	<i>Gallinago gallinago</i>	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.

Common Name	Species Name	Chinese Name	Conservation Status	Recorded habitat from the survey	Distribution in Hong Kong*
Eastern Cattle Egret	<i>Bubulcus coromandus</i>	牛背鷺	(LC)	T2: River bank T3: River bank, River bed, In flight T5: Wet Agricultural Land, Dry Agricultural Land, Shallow Water Habitat	Resident and common passage migrant. Widely distributed in Hong Kong.
Eurasian Teal	<i>Anas crecca</i>	綠翅鴨	RC	T5: Wet Agricultural Land, Shallow Water Habitat, Pond	Common winter visitor. Found in Deep Bay area, Shuen Wan, Tai Lam Chung Reservoir, Victoria Harbour, urban parks.
Garganey	<i>Spatula querquedula</i>	白眉鴨		T5: Wet Agricultural Land, Pond	Common passage migrant. Found in Deep Bay area, Long Valley, Kam Tin.
Great Cormorant	<i>Phalacrocorax carbo</i>	普通鸕鶿	PRC	T1: In flight T2: In flight T3: In flight	Common winter visitor. Widely distributed in coastal areas throughout Hong Kong.
Great Egret	<i>Ardea alba</i>	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, Dry Agricultural Land, Shallow Water Habitat, In flight	Common resident and winter visitor. Widely distributed in Hong Kong.
Greater Painted-snipe	<i>Rostratula benghalensis</i>	彩鷺	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	<i>Tringa ochropus</i>	白腰草鷺		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	<i>Ardea cinerea</i>	蒼鷺	PRC	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 winter visitor. Found in Deep Bay area, Starling Inlet, Kowloon Park, Cape D'Aguilar.

Common Name	Species Name	Chinese Name	Conservation Status	Recorded habitat from the survey	Distribution in Hong Kong*
Grey-headed Lapwing	<i>Vanellus cinereus</i>	灰頭麥雞	LC	T3: River bank	Locally common winter visitor and migrant. Found in Kam Tin, Tsim Bei Tsui, Lo Wu, Tai Long Wan, Shuen Wan, Castle Peak coast, Chek Lap Kok.
Little Egret	<i>Egretta garzetta</i>	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	<i>Tachybaptus ruficollis</i>	小鷺鷥	LC	T5: Pond	Common resident. Found in Deep Bay area.
Little Ringed Plover	<i>Charadrius dubius</i>	金眶鸻	LC	T2: River bank T5: Dry Agricultural Land	Resident, common winter visitor and passage migrant. Widely distributed in freshwater areas throughout Hong Kong.
Marsh Sandpiper	<i>Tringa stagnatilis</i>	澤鵞	RC	T5: Wet Agricultural Land, Dry Agricultural Land, Shallow Water Habitat	Abundant winter visitor and migrant. Found in Deep Bay area, Shuen Wan, Long Valley, Kam Tin, Sai Kung.
Northern Lapwing	<i>Vanellus vanellus</i>	鳳頭麥雞	LC	T3: River bank	Scarce winter visitor. Found in Mai Po, Long Valley, Chek Lap Kok, Ho Chung, Tai Long Wan, Tai Po, Castle Peak coast.
Northern Shoveler	<i>Spatula clypeata</i>	琵嘴鴨	RC	T5: Pond, In flight	Abundant winter visitor. Found in Deep Bay area.
Pied Avocet	<i>Recurvirostra avosetta</i>	反嘴鵞	RC	T5: Dry Agricultural Land, Shallow Water Habitat, Pond, In flight	Abundant winter visitor. Found in Deep Bay area.
Tundra Bean Goose	<i>Anser serrirostris</i>	凍原豆雁	LC(R)	T5: Dry Agricultural Land, Shallow Water Habitat	Rare Transit Migrant
White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	白胸苦惡鳥		T3: River bank, River bed, In flight T5: Wet Agricultural Land, Dry Agricultural Land, Shallow Water Habitat	Common resident. Widely distributed in wetland throughout Hong Kong.

Common Name	Species Name	Chinese Name	Conservation Status	Recorded habitat from the survey	Distribution in Hong Kong*
White-throated Kingfisher	<i>Halcyon smyrnensis</i>	白胸翡翠	(LC)	T1: River bank T2: River bank T3: River bank, River bed, In flight T5: Dry Agricultural Land, Shallow Water Habita, In flight	Common resident. Widely distributed in coastal areas throughout Hong Kong.
Wood Sandpiper	<i>Tringa glareola</i>	林鵲	LC	T3: River bed T5: Shallow Water Habitat, In flight	Common migrant and winter visitor. Widely distributed in wetland area throughout Hong Kong.
<p>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 NT: Near Threatened 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) *Source: Hong Kong Biodiversity Database, AFCD (https://www.afcd.gov.hk/English/conservation/hkbiodiversity/database/search.php)</p>					

Appendix L1I. Birds Recorded in November 2024

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status
Amur Stonechat	<i>Saxicola stejnegeri</i>	黑喉石鵯	WV	
Asian Koel	<i>Eudynamys scolopacea</i>	噪鵯	R	
Barn Swallow	<i>Hirundo rustica</i>	家燕	PM, Sv	
Besra	<i>Accipiter virgatus</i>	松雀鷹	R, CPM	Cap.586
Black Drongo	<i>Dicrurus macrocercus</i>	黑卷尾	Sv	
Black Kite	<i>Milvus migrans</i>	黑鳶	R, WV	Cap.586, LC
Black-collared Starling	<i>Gracupica nigricollis</i>	黑領椋鳥	R	
Black-crowned Night Heron	<i>Nycticorax nycticorax</i>	夜鷺	R, WV	LC
Black-winged Stilt	<i>Himantopus himantopus</i>	黑翅長腳鵯	PM	RC
Chinese Bulbul	<i>Pycnonotus sinensis</i>	白頭鶇	R	
Chinese Pond Heron	<i>Ardeola bacchus</i>	池鷺	R	PRC(RC)
Collared Crow	<i>Corvus torquatus</i>	白頸鴉	UR	LC, VU
Common Greenshank	<i>Tringa nebularia</i>	青腳鵯	PM, WV	RC
Common Kingfisher	<i>Alcedo atthis</i>	普通翠鳥	R	
Common Moorhen	<i>Gallinula chloropus</i>	黑水雞	R	
Common Myna	<i>Acridotheres tristis</i>	家八哥	UR	
Common Redshank	<i>Tringa totanus</i>	紅腳鵯	PM	RC
Common Sandpiper	<i>Actitis hypoleucos</i>	磯鵯	WV, PM	
Common Snipe	<i>Gallinago gallinago</i>	扇尾沙錐	WV, PM	
Crested Myna	<i>Acridotheres cristatellus</i>	八哥	R	
Daurian Redstart	<i>Phoenicurus aureus</i>	北紅尾鵯	WV	

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status
Dusky Warbler	<i>Phylloscopus fuscatus</i>	褐柳鶯	PM, WV	
Eastern Cattle Egret	<i>Bubulcus coromandus</i>	牛背鶯	R, PM	(LC)
Eastern Yellow Wagtail	<i>Motacilla tschutschensis</i>	東黃鶺鴒	PM, WV	
Eurasian Teal	<i>Anas crecca</i>	綠翅鴨	WV	RC
Eurasian Tree Sparrow	<i>Passer montanus</i>	樹麻雀	R	
Eurasian Wryneck	<i>Jynx torquilla</i>	蟻鴛	UPM, WV	
Garganey	<i>Spatula querquedula</i>	白眉鴨	PM	
Great Cormorant	<i>Phalacrocorax carbo</i>	普通鸕鶿	CWV	PRC
Great Egret	<i>Ardea alba</i>	大白鶯	R, WV	PRC(RC)
Greater Painted-snipe	<i>Rostratula benghalensis</i>	彩鶺鴒	R	LC
Green Sandpiper	<i>Tringa ochropus</i>	白腰草鶺鴒	UPM, WV	
Grey Heron	<i>Ardea cinerea</i>	蒼鶯	WV	PRC
Grey Wagtail	<i>Motacilla cinerea</i>	灰鶺鴒	WV	
Grey-headed Lapwing	<i>Vanellus cinereus</i>	灰頭麥雞	WV, PM	LC
House Swift	<i>Apus nipalensis</i>	小白腰雨燕	SpM, R	
Large-billed Crow	<i>Corvus macrorhynchus</i>	大嘴烏鴉	R	
Little Bunting	<i>Emberiza pusilla</i>	小鶺鴒	CPM, WV	
Little Egret	<i>Egretta garzetta</i>	小白鶯	R	PRC(RC)
Little Grebe	<i>Tachybaptus ruficollis</i>	小鶯鶺鴒	R	LC
Little Ringed Plover	<i>Charadrius dubius</i>	金眶鶺鴒	WV, PM	LC
Long-tailed Shrike	<i>Lanius schach</i>	棕背伯勞	R	

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status
Marsh Sandpiper	<i>Tringa stagnatilis</i>	澤鵞	PM, WV	RC
Masked Laughingthrush	<i>Pterorhinus perspicillatus</i>	黑臉噪鵲	R	
Northern Lapwing	<i>Vanellus vanellus</i>	鳳頭麥雞	SWV	NT, LC
Northern Shoveler	<i>Spatula clypeata</i>	琵嘴鴨	WV	RC
Olive-backed Pipit	<i>Anthus hodgsoni</i>	樹鵲	WV	
Oriental Magpie	<i>Pica serica</i>	喜鵲	R	
Oriental Magpie-Robin	<i>Copsychus saularis</i>	鵲鳩	R	
Oriental Reed Warbler	<i>Acrocephalus orientalis</i>	東方大葦鶯	CPM	
Oriental Turtle Dove	<i>Streptopelia orientalis</i>	山斑鳩	WV, PM	
Pied Avocet	<i>Recurvirostra avosetta</i>	反嘴鵞	WV	RC
Plain Prinia	<i>Prinia inornata</i>	純色鷓鴣	R	
Red-rumped Swallow	<i>Cecropis daurica</i>	金腰燕	UPM	
Red-throated Pipit	<i>Anthus cervinus</i>	紅喉鵲	CPM, WV	RC
Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	紅耳鵲	R	
Richard's Pipit	<i>Anthus richardi</i>	理氏鵲	WV, PM	
Rock Dove	<i>Columba livia</i>	原鴿	R	
Rose-ringed Parakeet	<i>Psittacula krameri</i>	紅領綠鸚鵡	SR	
Scaly-breasted Munia	<i>Lonchura punctulata</i>	斑文鳥	R	
Spotted Dove	<i>Streptopelia chinensis</i>	珠頸斑鳩	R	
Tundra Bean Goose	<i>Anser serrirostris</i>	凍原豆雁	UPM	LC(R)
White Wagtail	<i>Motacilla alba</i>	白鵲鴿	PM, WV	

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status
White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	白胸苦惡鳥	R	
White-throated Kingfisher	<i>Halcyon smyrnensis</i>	白胸翡翠	R	(LC)
Wood Sandpiper	<i>Tringa glareola</i>	林鵲	PM, WV	LC
Yellow-bellied Prinia	<i>Prinia flaviventris</i>	黃腹鷦鶯	R	
Yellow-breasted Bunting	<i>Emberiza aureola</i>	黃胸鵪	PM	CR, RC
Zitting Cisticola	<i>Cisticola juncidis</i>	棕扇尾鶯	PM, WV	LC

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

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

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. Mammal Species Recorded for Ecologically Sensitive Habitat Monitoring, 20 & 26 November 2024

Common Name	Species Name	Chinese Name	Conservation Status	Occurrence Status	Date: 20/11/2024 (T1,6), 26/11/2024 (T3,4,5)				
					Relative Abundance				
					Transect Walk				
					T1	T3	T4	T5	T6
Domestic Dog	<i>Canis lupus familiaris</i>	野狗	-	Introduced	+++		++		+
Domestic Cat	<i>Felis catus</i>	野貓	-	Introduced	+			+	
Domestic Ox	<i>Bos taurus</i>	黃牛		Introduced	+				
Short-nosed Fruit Bat	<i>Cynopterus sphinx</i>	短吻果蝠	Cap. 170 (NT)	Native	+++				
Japanese Pipistrelle	<i>Pipistrellus abramus</i>	東亞家蝠	Cap. 170	Native	+++	+++	+++	+++	+++
Total No. of species					5	1	2	2	2
Total No. of Conservation Interest Species					2	1	1	1	1
Total No. of Native Species					2	1	1	1	1
<p>Note:</p> <p>Cap. 170: Species under protection of Wild Animals Protection Ordinance (Cap. 170)</p> <p>(NT): Near Threatened in the Red List of China's Vertebrates</p> <p>Occurrence Status was according to The IUCN Red List of Threatened Species website (https://www.iucnredlist.org)</p> <p>+: species recorded within transect routes</p> <p>++: species commonly recorded within transect routes</p> <p>+++: dominant species within transect routes</p>									

Appendix L3. Herpetofauna Species Recorded for Ecologically Sensitive Habitat Monitoring, 20 & 26 November 2024

Common Name	Species Name	Chinese Name	Conservation Status	Occurrence Status	Date: 20/11/2024 (T1,6), 26/11/2024 (T3,4,5)				
					Relative Abundance				
					Transect Walk				
					T1	T3	T4	T5	T6
Amphibian									
Asian Common Toad	<i>Bufo melanostictus</i>	黑眶蟾蜍	-	Native		+		+++	+
Ornate Pigmy Frog	<i>Microhyla fissipes</i>	飾紋姬蛙	-	Native	+				
Reptile									
Bowring's Gecko	<i>Hemidactylus bowringii</i>	原尾蜥虎	-	Native	+	+	++	+	
Chinese gecko	<i>Gekko chinensis</i>	中國壁虎	-	Native	+		+		
Total No. of species					3	2	2	2	1
Total No. of Conservation Interest Species					0	0	0	0	0
Total No. of Native Species					3	2	2	2	1
<p>Note:</p> <p>Occurrence Status was according to The IUCN Red List of Threatened Species website (https://www.iucnredlist.org)</p> <p>(EN): Endangered in Red List of China Vertebrates</p> <p>(NT): Near Threatened in Red List of China Vertebrates</p> <p>+: species recorded within transect routes</p> <p>++: species commonly recorded within transect routes</p> <p>+++: dominant species within transect routes</p>									

Appendix L4. Butterfly Species Recorded Ecologically Sensitive Habitat Monitoring, 20 & 26 November 2024

Common Name	Species Name	Chinese Name	Conservation Status	Occurrence Status*	Date: 20/11/2024 (T1,6), 26/11/2024 (T3,4,5)				
					Relative Abundance				
					Transect Walk				
					T1	T3	T4	T5	T6
Angled Castor	<i>Ariadne ariadne</i>	波蛺蝶		-		+			
Blue-spotted Crow	<i>Euploea midamus</i>	藍點紫斑蝶		-	+		++	+	
Common Awl	<i>Hasora badra</i>	三斑趾弄蝶	VR, LC	-				+	
Common Cerulean	<i>Jamides celeno</i>	錫冷雅灰蝶	R	-	+				
Common Evening Brown	<i>Melanitis leda</i>	暮眼蝶		-	+				
Common Five-ring	<i>Ypthima baldus</i>	雙眼蝶		-	+			+	+
Common Grass Yellow	<i>Eurema hecabe</i>	寬邊黃粉蝶		-	+		+		
Common Hedge Blue	<i>Acytolepis puspa</i>	鈕灰蝶		-	+				
Common Jay	<i>Graphium doson axion</i>	木蘭青鳳蝶		-			+		
Common Mormon	<i>Papilio polytes</i>	玉帶鳳蝶		-	+		++		
Common Palmfly	<i>Elymnias hypermnestra</i>	翠袖鋸眼蝶		-				+	
Common Sailer	<i>Neptis hylas</i>	中環蛺蝶		-	+		++	++	+
Dark Brand Bush Brown	<i>Mycalesis mineus</i>	小眉眼蝶		-	+++	++	+		++
Five-dot Sergeant	<i>Parathyma sulpitia</i>	殘鏢線蛺蝶		-	+				
Fluffy Tit	<i>Zeltus amasa</i>	珍灰蝶		-			+		
Great Egg-fly	<i>Hypolimnas bolina</i>	幻紫斑蛺蝶		-	+		+	+	
Great Mormon	<i>Papilio memnon</i>	美鳳蝶		-			+	+	
Great Orange Tip	<i>Hebomoia glaucippe</i>	鶴頂粉蝶		-	+				
Indian Cabbage White	<i>Pieris canidia</i>	東方菜粉蝶		-		+		+	+

Common Name	Species Name	Chinese Name	Conservation Status	Occurrence Status*	Date: 20/11/2024 (T1,6), 26/11/2024 (T3,4,5)				
					Relative Abundance				
					Transect Walk				
					T1	T3	T4	T5	T6
Indian Palm Bob	<i>Suastus gremius</i>	素弄蝶		-	+				
Lemon Emigrant	<i>Catopsilia pomona</i>	遷粉蝶		-		+	+		+
Pale Grass Blue	<i>Pseudozizeeria maha</i>	酢漿灰蝶		-	+	+	++	++	
Paris Peacock	<i>Papilio paris</i>	巴黎翠鳳蝶		-			+		
Plain Tiger	<i>Danaus chrysippus</i>	金斑蝶		-	+				
Plum Judy	<i>Abisara echerius</i>	蛇目褐蛺蝶		-	+++	+	+	++	+
Red Helen	<i>Papilio Helenus</i>	玉斑鳳蝶		-			+		
Red-base Jezebel	<i>Delias pasithoe</i>	報喜斑粉蝶		-	+		++		
Small White	<i>Pieris rapae</i>	菜粉蝶	R	-	+	++	+	++	+
South China Bush Brown	<i>Mycalesis mineus</i>	平頂眉眼蝶		-	++	+	+	+	+
Southern Sullied Sailer	<i>Neptis clinia</i>	珂環蛺蝶		-		+			
Tailed Jay	<i>Graphium agamemnon</i>	統帥青鳳蝶		-			+		
Three-spot Grass Yellow	<i>Eurema blanda</i>	檠黃粉蝶		-	++	+	+++	++	+
Transparent 6-line Blue	<i>Nacaduba kurava</i>	古樓娜灰蝶		-	+		+		
Yellow Rajah	<i>Charaxes marmax</i>	螯蛺蝶	LC	-			+		+
Total No. of species					21	10	21	13	10
Total No. of Conservation Interest Species					2	1	2	2	2
<p>Note:</p> <p>*Very limited data are available for the occurrence status (being native to Hong Kong) of butterflies</p> <p>+: species recorded within transect routes</p> <p>++: species commonly recorded within transect routes</p> <p>+++ : dominant species within transect routes</p>									

Common Name	Species Name	Chinese Name	Conservation Status	Occurrence Status*	Date: 20/11/2024 (T1,6), 26/11/2024 (T3,4,5)				
					Relative Abundance				
					Transect Walk				
					T1	T3	T4	T5	T6
LC: Local Concern (Fellowes et al., 2002) R: Rare (Chan et al. (2011)) VR: Very Rare (Chan et al. (2011))									

Appendix L5. Odonata Species Recorded for Ecologically Sensitive Habitat Monitoring, 20 & 26 November 2024

Common Name	Species Name	Chinese Name	Conservation Status	Occurrence Status	Date: 20/11/2024 (T1,6), 26/11/2024 (T3,4,5)				
					Relative Abundance				
					Transect Walk				
					T1	T3	T4	T5	T6
Common Bluetail	<i>Ischnura senegalensis</i>	褐斑異痣蟴	-	Native	+				
Common Flangetail	<i>Ictinogomphus pertinax</i>	霸王葉春蜓	-	Native	+				
Green Skimmer	<i>Orthetrum sabina</i>	狹腹灰蜻	-	Native			+	+	
Marsh Skimmer	<i>Orthetrum luzonicum</i>	呂宋灰蜻	-	Native					+
Orange-tailed Sprite	<i>Ceriagrion auranticum</i>	翠胸黃蟴	-	Native					+
Red-faced Skimmer	<i>Orthetrum chrysis</i>	華麗灰蜻	-	Native					+
Russet Percher	<i>Neurothemis fulvia</i>	網脈蜻	-	Native			+	+	
Saddlebag Glider	<i>Tramea virginia</i>	華斜痣蜻	-	Native	+				
Black-kneed Featherlegs	<i>Pseudocoptera ciliata</i>	毛蚊扇蟴	-	Native				+	
Wandering Glider	<i>Pantala flavescens</i>	黃蜻	-	Native	+++	+	+++	+++	++
Total No. of species					4	1	3	4	4
Total No. of Conservation Interest Species					0	0	0	0	0
Total No. of Native Species					4	1	3	4	4

Common Name	Species Name	Chinese Name	Conservation Status	Occurrence Status	Date: 20/11/2024 (T1,6), 26/11/2024 (T3,4,5)				
					Relative Abundance				
					Transect Walk				
					T1	T3	T4	T5	T6
<p>Note:</p> <p>Occurrence Status was according to The IUCN Red List of Threatened Species website (https://www.iucnredlist.org)</p> <p>+: species recorded within transect routes</p> <p>++: species commonly recorded within transect routes</p> <p>+++: dominant species within transect routes</p> <p>LC: Local Concern (Fellowes et al., 2002)</p>									

APPENDIX M
WEATHER CONDITION

**APPENDIX M –
GENERAL WEATHER CONDITIONS DURING THE MONITORING PERIOD**

Date	Mean Air Temperature (°C)	Mean Relative Humidity (%)	Precipitation (mm)
1 November 24	26.8	56	0
2 November 24	25.1	64	0
3 November 24	26	73	0
4 November 24	26.2	75	Trace
5 November 24	26	67	Trace
6 November 24	25	64	Trace
7 November 24	23.9	54	Trace
8 November 24	24.1	48	0
9 November 24	25.2	66	1.9
10 November 24	24.9	80	6.2
11 November 24	24.9	77	0
12 November 24	25.9	75	0
13 November 24	25	82	14.8
14 November 24	24.8	88	6.3
15 November 24	24.2	94	36.6
16 November 24	25.5	88	33.3
17 November 24	24.3	88	6.1

Date	Mean Air Temperature (°C)	Mean Relative Humidity (%)	Precipitation (mm)
18 November 24	24.2	73	Trace
19 November 24	20.1	83	7.3
20 November 24	18.1	95	73.8
21 November 24	19.2	85	5.6
22 November 24	20.2	74	Trace
23 November 24	20.4	71	Trace
24 November 24	21.4	74	1
25 November 24	22.3	78	Trace
26 November 24	20.8	63	1.2
27 November 24	19.2	45	0
28 November 24	19.2	36	0
29 November 24	18.8	34	0
30 November 2024	19	55	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

	<p>to confirm findings;</p> <p>5. Increase monitoring frequency to daily;</p> <p>6. Discuss with IEC, ER and Contractor on remedial actions required;</p> <p>7. If exceedance continues, arrange meeting with IEC and ER; and</p> <p>8. If exceedance stops, cease additional monitoring.</p>	<p>Implementation of remedial measures.</p>		<p>agreed proposals; and</p> <p>4. Amend proposal if appropriate.</p>
<p>LIMIT LEVEL</p>				
<p>1.Exceedance for one sample</p>	<p>Identify source, investigate the causes of exceedance and propose remedial measures;</p> <p>2. Inform ER, Contractor, IEC and EPD;</p> <p>3. Repeat measurement to confirm finding;</p> <p>4. Increase monitoring frequency to daily;</p> <p>5. Assess effectiveness of Contractor’s remedial actions and keep IEC, EPD and ER informed of the results.</p>	<p>1. Check monitoring data submitted by ET;</p> <p>2. Check Contractor’s working method;</p> <p>3. Discuss with ET, ER and Contractor on possible remedial measures;</p> <p>4. Advise the ER and ET on the effectiveness of the proposed remedial measures;</p> <p>5. Supervise implementation of remedial</p>	<p>1. Confirm receipt of notification of failure in writing;</p> <p>2. Notify Contractor; and</p> <p>3. Supervise and ensure remedial measures properly implemented.</p>	<p>1. Identify source, investigate the causes of exceedance and propose remedial measures;</p> <p>2. Take immediate action to avoid further exceedance;</p> <p>3. Submit proposals for remedial actions to ER with a copy to ET and IEC within 3 working days of notification;</p> <p>4. Implement the agreed proposals; and</p> <p>5. Amend proposal if appropriate.</p>

		measures.		
2.Exceedance for two or more consecutive samples	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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 	<ol style="list-style-type: none"> 1. Submit noise mitigation proposals to ER and copy to the IEC and ET; 2. Implement noise mitigation proposals.
Limit Level	<ol style="list-style-type: none"> 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; 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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 	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 1. Conduct addition site investigation on the same day; 2. Inform IEC, Contractor and ER; 3. Check monitoring data, all plant, equipment, 	<ol style="list-style-type: none"> 1. Discuss with ET, Contractor and ER on the implemented mitigation measures; 2. Review the proposed remedial measures submitted by Contractor and advise 	<ol style="list-style-type: none"> 1. Discuss with ET, IEC and Contractor on the proposed mitigation measures; 2. Make agreement on the remedial measures to be implemented; and 	<ol style="list-style-type: none"> 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
	<p>Contractor's working methods and other relative information;</p> <p>4. Discuss remedial measures with IEC, contractor and ER; and</p> <p>5. Review submit proposal and ensure the agreed remedial measures are implemented</p>	<p>the ER accordingly; and</p> <p>3. Review and advise the ET and ER on the effectiveness of the implemented mitigation measures.</p>	<p>3. Discuss with ET, IEC and Contractor on the effectiveness of the implemented remedial measures</p>	<p>practice;</p> <p>4. Check all plant and equipment and consider changes of working methods;</p> <p>5. Discuss with ET, IEC and ER and submit proposal of remedial measures to ER and IEC within 3 working days of notification; and</p> <p>6. Implement the agreed mitigation measures.</p>
Limit level being exceeded by one sampling day	<p>1. Conduct addition site investigation on the same day;</p> <p>2. Inform IEC, Contractor and ER;</p> <p>3. Rectify unacceptable practice;</p> <p>4. Check monitoring data, all plant, equipment, Contractor's working methods and other relative information;</p> <p>5. Consider changes of working methods;</p> <p>6. Discuss mitigation measures with IEC, ER and Contractor;</p> <p>7. Review the submit</p>	<p>1. Discuss with ET, Contractor and ER on the implemented mitigation measures;</p> <p>2. Review the proposed remedial measures submitted by Contractor and advise the ER accordingly; and</p> <p>3. Review and advise the ET and ER on the effectiveness of the implemented mitigation measures.</p>	<p>1. Discuss with ET, IEC and Contractor on the implemented remedial measures;</p> <p>2. Request Contractor to critically review the working methods;</p> <p>3. Make agreement on the remedial measures to be implemented; and</p> <p>4. Discuss with ET, IEC and Contractor on the effectiveness of the implemented remedial measures.</p>	<p>1. Identify source(s) of impact;</p> <p>2. Inform the ER and confirm notification of the noncompliance in writing;</p> <p>3. Rectify unacceptable practice;</p> <p>4. Check all plant and equipment and consider changes of working methods;</p> <p>5. Discuss with ET, IEC and ER and submit proposal of additional mitigation measures to ER and IEC within 3 working days of</p>

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	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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 CH ₄ 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;

	<p>procedures to determine possible mitigation to be implemented;</p> <p>6. Arrange meeting with IEC, Contractor and ER to discuss the remedial actions to be taken;</p> <p>7. Assess effectiveness of Contractor’s remedial actions and keep IEC, EPD and ER informed of the results;</p> <p>8. If exceedance stops, cease additional monitoring.</p>	<p>their effectiveness and advise the ER accordingly;</p> <p>3. Supervise the implementation of remedial measures</p>	<p>remedial measures to be implemented;</p> <p>4. Supervise and ensure remedial measures properly implemented; and</p> <p>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.</p>	<p>3. Implement the agreed proposals;</p> <p>4. Resubmit proposals if problem still not under control;</p> <p>5. Stop the relevant portion of works as determined by the ER until the exceedance is abated.</p>
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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.	<ol style="list-style-type: none"> 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 	<ol style="list-style-type: none"> 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 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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.	<ol style="list-style-type: none"> Investigate if the activity identified is related to the construction works; Immediately inform IEC, Contractor and PP. Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified; and Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP. 	<ol style="list-style-type: none"> Check the investigation and findings of the ET; Review the remedial measure(s) proposed by the Contractor and advise the PP accordingly; and 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. 	<ol style="list-style-type: none"> Confirm receipt of notification of the exceedance of Action Level in writing; and Propose and implement the remedial measures(s) to mitigate the impact(s) of the activity identified. 	<ol style="list-style-type: none"> Check the investigation and findings of the ET and IEC; Discuss the need for increased site inspection/audit frequency proposed by ET with IEC and the Contractor; and Supervise the instigated further mitigation measure(s).
Limit Level exceeded	<ol style="list-style-type: none"> Investigate if the activity identified is related to the construction works; 	<ol style="list-style-type: none"> Check the investigation and findings or the ET; Discuss with the PP, 	<ol style="list-style-type: none"> Confirm receipt of notification of the exceedance of Limit Level in writing; 	<ol style="list-style-type: none"> Check the monitoring results and findings from ET and IEC; Discuss the need for

	<p>2. Immediately inform IEC, Contractor and PP.</p> <p>3. Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified;</p> <p>4. Discuss with the PP, IEC, and Contractor on the need for further mitigation measure(s); and</p> <p>5. Conduct necessary site inspections/ audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP.</p>	<p>ET, and Contractor on the need for further mitigation measure(s);</p> <p>3. Review the effectiveness of the further mitigation measure(s) proposed and implemented by Contractor and advise the PP accordingly;</p> <p>4. Review the remedial measure(s) proposed by the Contractor and advise the PP accordingly; and</p> <p>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.</p>	<p>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</p> <p>3. Propose and implement the remedial measures(s) to mitigate the impact(s) identified.</p>	<p>increased site inspection and audit frequency proposed by ET with IEC and the Contractor;</p> <p>3. Discuss and confirm the further mitigation measure(s) required with the ET, IEC, and Contractor; and</p> <p>4. Supervise the instigated further mitigation measure(s).</p>
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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

<p>exceeded.</p>	<p>data and repeat data analysis to confirm findings;</p> <p>2. Review relevant ecological data to check if the exceedance is due to natural variation or is construction works related;</p> <p>3. Identify potential source(s) of impact;</p> <p>4. Immediately inform IEC, Contractor and PP.</p> <p>5. Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified; and</p> <p>6. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP.</p>	<p>analysis and investigation by ET;</p> <p>2. Review the remedial measure(s) proposed by the Contractor and advise the PP accordingly; and</p> <p>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.</p>	<p>notification of the exceedance of Action Level in writing; and</p> <p>2. Propose and implement the remedial measures(s) to mitigate the impact(s) identified.</p>	<p>results and findings from ET and IEC;</p> <p>2. Discuss the need for increased site inspection/audit frequency proposed by ET with IEC and the Contractor; and</p> <p>3. Supervise the instigated further mitigation measure(s).</p>
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<p>Limit Level Exceeded.</p>	<p>1. Check monitoring data and repeat data analysis to confirm findings;</p> <p>2. Identify potential source(s) of impact;</p> <p>3. Immediately inform IEC, Contractor and PP.</p> <p>4. Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified;</p> <p>5. Discuss with the PP, IEC, and Contractor on the need for further mitigation measure(s); and</p> <p>6. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP.</p>	<p>1. Check monitoring data, analysis and investigation by ET;</p> <p>2. Discuss with the PP, ET, and Contractor on the need for further mitigation measure(s);</p> <p>3. Review the effectiveness of the further mitigation measure(s) proposed and implemented by Contractor and advise the PP accordingly;</p> <p>4. Review the remedial measure(s) proposed by the Contractor and advise the PP accordingly; and</p> <p>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.</p>	<p>1. Confirm receipt of notification of the exceedance of Limit Level in writing;</p> <p>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</p> <p>3. Propose and implement the remedial measures(s) to mitigate the impact(s) identified.</p>	<p>1. Check the monitoring results and findings from ET and IEC;</p> <p>2. Discuss the need for increased site inspection and audit frequency proposed by ET with IEC and the Contractor;</p> <p>3. Discuss and confirm the further mitigation measure(s) required with the ET, IEC, and Contractor; and</p> <p>4. Supervise the instigated further mitigation measure(s).</p>
<p>Operational Phase</p>				
<p>Action Level</p>	<p>1. Check monitoring</p>	<p>1. Check monitoring</p>	<p>1. Confirm receipt of</p>	<p>1. Check the monitoring</p>

<p>exceeded.</p>	<p>data and repeat data analysis to confirm findings;</p> <p>2. Review relevant ecological data to check if the exceedance is due to natural variation or is construction works related;</p> <p>3. Identify potential source(s) of impact;</p> <p>4. Immediately inform IEC, Contractor and PP.</p> <p>5. Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified; and</p> <p>6. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP.</p>	<p>data, analysis and investigation by ET;</p> <p>2. Review the remedial measure(s) proposed by the Contractor and advise the PP accordingly; and</p> <p>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.</p>	<p>notification of the exceedance of Action Level in writing; and</p> <p>2. Propose and implement the remedial measures(s) to mitigate the impact(s) identified.</p>	<p>results and findings from ET and IEC;</p> <p>2. Discuss the need for increased site inspection/audit frequency proposed by ET with IEC and the Contractor; and</p> <p>3. Supervise the instigated further mitigation measure(s).</p>
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<p>Limit Level exceeded.</p>	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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).
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Table N-6.3 Action and Limit Levels and Responses to Evidence of Declines in Aquatic Fauna
 WMA20002\App N - Event Action Plan

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.	<ol style="list-style-type: none"> 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 	<ol style="list-style-type: none"> 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 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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.	<ol style="list-style-type: none"> 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; 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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).

	<p>and</p> <p>6. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP.</p>			
<p>Limit Level exceeded.</p>	<p>1. Check monitoring data and repeat data analysis to confirm findings;</p> <p>2. Review relevant ecological data to check if the exceedance is due to natural variation or is construction works related;</p> <p>3. Identify potential source(s) of impact;</p> <p>4. Immediately inform IEC, Contractor and PP.</p> <p>5. Discuss with the Contractor on the remedial measure(s) to mitigate the</p>	<p>1. Check monitoring data, analysis and investigation by ET;</p> <p>2. Discuss with the PP, ET, and Contractor on the need for further mitigation measure(s);</p> <p>3. Review the effectiveness of the further mitigation measure(s) proposed and implemented by Contractor and advise the PP accordingly;</p> <p>4. Review the remedial measure(s) proposed by the Contractor and advise the PP accordingly; and</p>	<p>1. Confirm receipt of notification of the exceedance of Limit Level in writing;</p> <p>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</p> <p>3. Propose and implement the remedial measures(s) to mitigate the impact(s) identified.</p>	<p>1. Check the monitoring results and findings from ET and IEC;</p> <p>2. Discuss the need for increased site inspection and audit frequency proposed by ET with IEC and the Contractor;</p> <p>3. Discuss and confirm the further mitigation measure(s) required with the ET, IEC, and Contractor; and</p> <p>4. Supervise the instigated further mitigation measure(s).</p>

	<p>impact(s) identified;</p> <p>6. Discuss with the PP, IEC, and Contractor on the need for further mitigation measure(s); and</p> <p>7. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP.</p>	<p>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.</p>		
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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.	<p>1. Check monitoring data and repeat data analysis to confirm findings;</p> <p>2. Review relevant ecological data to check if the exceedance is due to natural variation or is</p>	<p>1. Check monitoring data, analysis and investigation by ET;</p> <p>2. Review the remedial measure(s) proposed by the Contractor and advise the PP accordingly; and</p>	<p>1. Confirm receipt of notification of the exceedance of Action Level in writing; and</p> <p>2. Propose and implement the remedial measures(s) to mitigate the impact(s) identified.</p>	<p>1. Check the monitoring results and findings from ET and IEC;</p> <p>2. Discuss the need for increased site inspection/audit frequency proposed by ET with IEC and the Contractor; and</p>

	<p>construction works related;</p> <p>3. Identify potential source(s) of impact;</p> <p>4. Immediately inform IEC, Contractor and PP.</p> <p>5. Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified; and</p> <p>6. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP.</p>	<p>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.</p>		<p>3. Supervise the instigated further mitigation measure(s).</p>
<p>Limit Level exceeded.</p>	<p>1. Check monitoring data and repeat data analysis to confirm findings;</p> <p>2. Review relevant ecological data to check if the exceedance is due to</p>	<p>1. Check monitoring data, analysis and investigation by ET;</p> <p>2. Discuss with the PP, ET, and Contractor on the need for further mitigation measure(s);</p>	<p>1. Confirm receipt of notification of the exceedance of Limit Level in writing;</p> <p>2. Discuss with the PP, IEC, and ET on the need of further mitigation measure(s),</p>	<p>1. Check the monitoring results and findings from ET and IEC;</p> <p>2. Discuss the need for increased site inspection and audit frequency proposed by ET with IEC and the</p>

	<p>natural variation or is construction works related;</p> <p>3. Identify potential source(s) of impact;</p> <p>4. Immediately inform IEC, Contractor and PP.</p> <p>5. Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified;</p> <p>6. Discuss with the PP, IEC, and Contractor on the need for further mitigation measure(s); and</p> <p>7. Conduct necessary site inspections/audit s to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP.</p>	<p>3. Review the effectiveness of the further mitigation measure(s) proposed and implemented by Contractor and advise the PP accordingly;</p> <p>4. Review the remedial measure(s) proposed by the Contractor and advise the PP accordingly; and</p> <p>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.</p>	<p>then propose and implement the further mitigation measure(s); and</p> <p>3. Propose and implement the remedial measures(s) to mitigate the impact(s) identified.</p>	<p>Contractor;</p> <p>3. Discuss and confirm the further mitigation measure(s) required with the ET, IEC, and Contractor; and</p> <p>4. Supervise the instigated further mitigation measure(s).</p>
Operational Phase				

<p>Action Level exceeded.</p>	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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).
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<p>Limit Level exceeded.</p>	<ol style="list-style-type: none"> 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 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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).

	<p>site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP.</p>			
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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.	<p>1. Check monitoring data and repeat data analysis to confirm findings;</p> <p>2. Review relevant ecological data to check if the exceedance is due to natural variation or is construction works related;</p> <p>3. Identify potential source(s) of impact;</p> <p>4. Immediately inform IEC, Contractor and PP.</p>	<p>1. Check monitoring data, analysis and investigation by ET;</p> <p>2. Review the remedial measure(s) proposed by the Contractor and advise the PP accordingly; and</p> <p>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</p>	<p>1. Confirm receipt of notification of the exceedance of Action Level in writing; and</p> <p>2. Propose and implement the remedial measures(s) to mitigate the impact(s) identified.</p>	<p>1. Check the monitoring results and findings from ET and IEC;</p> <p>2. Discuss the need for increased site inspection/audit frequency proposed by ET with IEC and the Contractor; and</p> <p>3. Supervise the instigated further mitigation measure(s).</p>

	<p>5. Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified; and</p> <p>6. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP.</p>	<p>results to the PP.</p>		
<p>Limit Level exceeded.</p>	<p>1. Check monitoring data and repeat data analysis to confirm findings;</p> <p>2. Review relevant ecological data to check if the exceedance is due to natural variation or is construction works related;</p> <p>3. Identify potential source(s) of impact;</p> <p>4. Immediately inform IEC, Contractor and PP.</p>	<p>1. Check monitoring data, analysis and investigation by ET;</p> <p>2. Discuss with the PP, ET, and Contractor on the need for further mitigation measure(s);</p> <p>3. Review the effectiveness of the further mitigation measure(s) proposed and implemented by Contractor and advise the PP accordingly;</p> <p>4. Review the remedial measure(s) proposed by the Contractor and advise the PP</p>	<p>1. Confirm receipt of notification of the exceedance of Limit Level in writing;</p> <p>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</p> <p>3. Propose and implement the remedial measures(s) to mitigate the impact(s) identified.</p>	<p>1. Check the monitoring results and findings from ET and IEC;</p> <p>2. Discuss the need for increased site inspection and audit frequency proposed by ET with IEC and the Contractor;</p> <p>3. Discuss and confirm the further mitigation measure(s) required with the ET, IEC, and Contractor; and</p> <p>4. Supervise the instigated further mitigation measure(s).</p>

	<p>5. Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified;</p> <p>6. Discuss with the PP, IEC, and Contractor on the need for further mitigation measure(s); and</p> <p>7. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP.</p>	<p>accordingly; and</p> <p>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.</p>		
Operational Phase				
Action Level exceeded.	<p>1. Check monitoring data and repeat data analysis to confirm findings;</p> <p>2. Review relevant ecological data to</p>	<p>1. Check monitoring data, analysis and investigation by ET;</p> <p>2. Review the remedial measure(s) proposed by the Contractor and</p>	<p>1. Confirm receipt of notification of the exceedance of Action Level in writing; and</p> <p>2. Propose and implement the</p>	<p>1. Check the monitoring results and findings from ET and IEC;</p> <p>2. Discuss the need for increased site inspection/audit</p>

	<p>check if the exceedance is due to natural variation or is construction works related;</p> <p>3. Identify potential source(s) of impact;</p> <p>4. Immediately inform IEC, Contractor and PP.</p> <p>5. Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified; and</p> <p>6. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed with the PP.</p>	<p>advise the PP accordingly; and</p> <p>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.</p>	<p>remedial measures(s) to mitigate the impact(s) identified.</p>	<p>frequency proposed by ET with IEC and the Contractor; and</p> <p>3. Supervise the instigated further mitigation measure(s).</p>
<p>Limit Level exceeded.</p>	<p>1. Check monitoring data and repeat data analysis to confirm findings;</p>	<p>1. Check monitoring data, analysis and investigation by ET;</p>	<p>1. Confirm receipt of notification of the exceedance of Limit Level in writing;</p>	<p>1. Check the monitoring results and findings from ET and IEC;</p>

	<p>2. Review relevant ecological data to check if the exceedance is due to natural variation or is construction works related;</p> <p>3. Identify potential source(s) of impact;</p> <p>4. Immediately inform IEC, Contractor and PP.</p> <p>5. Discuss with the Contractor on the remedial measure(s) to mitigate the impact(s) identified;</p> <p>6. Discuss with the PP, IEC, and Contractor on the need for further mitigation measure(s); and</p> <p>7. Conduct necessary site inspections/audits to ensure all remedial measures are properly implemented by the Contractor, as agreed</p>	<p>2. Discuss with the PP, ET, and Contractor on the need for further mitigation measure(s);</p> <p>3. Review the effectiveness of the further mitigation measure(s) proposed and implemented by Contractor and advise the PP accordingly;</p> <p>4. Review the remedial measure(s) proposed by the Contractor and advise the PP accordingly; and</p> <p>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.</p>	<p>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</p> <p>3. Propose and implement the remedial measures(s) to mitigate the impact(s) identified.</p>	<p>2. Discuss the need for increased site inspection and audit frequency proposed by ET with IEC and the Contractor;</p> <p>3. Discuss and confirm the further mitigation measure(s) required with the ET, IEC, and Contractor; and</p> <p>4. Supervise the instigated further mitigation measure(s).</p>
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	with the PP.			
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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	$L_{eq(30 \text{ min.})}$ dB(A)	1	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	5	0	0
	Turbidity	1	2	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	0	0	0
	Non-Aquatic Fauna	2	2	0	0
	General Site Inspection (LVNP)	0	0	0	0

APPENDIX P
SITE AUDIT SUMMARY

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

Weekly Site Inspection Record Summary

Checklist Reference Number	241105
Date	5 November 2024 (Tuesday)
Time	09:30 – 11:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	<i>B. Air Quality</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>C. Noise</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>D. Water Quality</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>E. Waste / Chemical Management</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>F. Land Contamination</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>G. Landfill Gas Hazard</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>H. Cultural Heritage</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>I. Landscape and Visual</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>J. Ecology</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>K. Permits/Licences</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>L. Others</i>	
	• Follow-up on previous audit section (Ref. No.:241029), item no. 241029-R01 was observed improved/rectified by the Contractor during the site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		5 November 2024
Checked by	Dr. Priscilla Choy		5 November 2024

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

Weekly Site Inspection Record Summary

Checklist Reference Number	241114
Date	14 November 2024 (Thursday)
Time	14:30 – 15:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	<i>B. Air Quality</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>C. Noise</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>D. Water Quality</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>E. Waste / Chemical Management</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>F. Land Contamination</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>G. Landfill Gas Hazard</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>H. Cultural Heritage</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>I. Landscape and Visual</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>J. Ecology</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>K. Permits/Licences</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>L. Others</i>	
	• Follow-up on previous audit section (Ref. No.:241105), no major environmental deficiency was identified during the site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		14 November 2024
Checked by	Dr. Priscilla Choy		14 November 2024

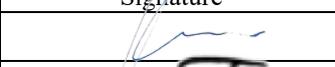
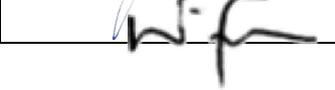
Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

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

Weekly Site Inspection Record Summary

Checklist Reference Number	241119
Date	19 November 2024 (Tuesday)
Time	09:30 – 12:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	<i>B. Air Quality</i>	
241119-R01	<ul style="list-style-type: none"> Haul road at Portion 6A should be kept clean. 	B 9
	<i>C. Noise</i>	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	<i>D. Water Quality</i>	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	<i>E. Waste / Chemical Management</i>	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	<i>F. Land Contamination</i>	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	<i>G. Landfill Gas Hazard</i>	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	<i>H. Cultural Heritage</i>	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	<i>I. Landscape and Visual</i>	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	<i>J. Ecology</i>	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	<i>K. Permits/Licences</i>	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	<i>L. Others</i>	
	<ul style="list-style-type: none"> Follow-up on previous audit section (Ref. No.:241114), no major environmental deficiency was identified during the site inspection. 	

	Name	Signature	Date
Recorded by	Marco Ma		19 November 2024
Checked by	Dr. Priscilla Choy		19 November 2024

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

Weekly Site Inspection Record Summary

Checklist Reference Number	241126
Date	26 November 2024 (Tuesday)
Time	09:30 – 10:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	<i>B. Air Quality</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>C. Noise</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>D. Water Quality</i>	
241126-R01	• The construction materials at the drainage channel at Portion 7/13 should be cleared.	D6
	<i>E. Waste / Chemical Management</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>F. Land Contamination</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>G. Landfill Gas Hazard</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>H. Cultural Heritage</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>I. Landscape and Visual</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>J. Ecology</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>K. Permits/Licences</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>L. Others</i>	
	• Follow-up on previous audit section (Ref. No.:241119), all environmental deficiencies were observed improved/rectified during the site inspection.	

	Name	Signature	Date
Recorded by	Ivy Tam		26 November 2024
Checked by	Dr. Priscilla Choy		26 November 2024

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	241106
Date	6 November 2024 (Wednesday)
Time	09:30 – 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. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
241106-O01	• Contractors were reminded to immediately establish proper drainage system for pumped groundwater at Portion 7.	D 5
241106-R02	• Provide complete drainage system to treat wastewater. (Shek Wu Hui Treatment Plant works area)	D 5i
241106-R03	• Enhance water mitigation measures to avoid surface runoff out of site boundary. (Portion 6)	D 3
	E. Waste / Chemical Management	
241106-O02	• Oil leakage was observed with no drip tray provided at Shek Wu Hui Treatment Plant works area. Potential risk of leakage exceeds site boundary.	E 13, 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	
241106-R01	• Dull green hoarding should be erected along the site boundary as according to the submitted location plan.	H 1
	I. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	L. Others	
	• Follow-up on previous audit section (Ref. No.:241030), item no. 241030-O01, 241030-O02, 241030-R01, 241030-R02 and 241030-R03 were remarked as 241106-O01, 241106-O02, 241106-R01, 241106-R02 and 241106-R03 respectively. Follow-up actions are needed to be reviewed.	

	Name	Signature	Date
Recorded by	Marco Ma		6 November 2024
Checked by	Dr. Priscilla Choy		6 November 2024

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	241113
Date	13 November 2024 (Wednesday)
Time	09:30 – 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. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
241113-O01	• Contractors were reminded to immediately establish proper drainage system for pumped groundwater at Portion 7.	D 5
241113-R02	• Provide complete drainage system to treat wastewater. (Shek Wu Hui Treatment Plant works area)	D 5i
241113-R03	• Enhance water mitigation measures to avoid surface runoff out of site boundary. (Portion 6)	D 3
	E. Waste / Chemical Management	
241113-O02	• Oil leakage was observed with no drip tray provided at Shek Wu Hui Treatment Plant works area. Potential risk of leakage exceeds site boundary.	E 13, 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	
241113-R01	• Dull green hoarding should be erected along the site boundary as according to the submitted location plan.	H 1
	I. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	L. Others	
	• Follow-up on previous audit section (Ref. No.:241116), item no. 241116-O01, 241116-O02, 241116-R01, 241116-R02 and 241116-R03 were remarked as 241113-O01, 241113-O02, 241113-R01, 241113-R02 and 241113-R03 respectively. Follow-up actions are needed to be reviewed.	

	Name	Signature	Date
Recorded by	Marco Ma		13 November 2024
Checked by	Dr. Priscilla Choy		13 November 2024

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	241120
Date	20 November 2024 (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	
241120-O01	• Contractors were reminded to immediately establish proper drainage system for pumped groundwater at Portion 7.	D 5
241120-R02	• Provide complete drainage system to treat wastewater. (Shek Wu Hui Treatment Plant works area)	D 5i
241120-R03	• Enhance water mitigation measures to avoid surface runoff out of site boundary. (Portion 6)	D 3
	E. Waste / Chemical Management	
241120-O02	• Oil leakage was observed with no drip tray provided at Shek Wu Hui Treatment Plant works area. Potential risk of leakage exceeds site boundary.	E 13, 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	
241120-R01	• Dull green hoarding should be erected along the site boundary as according to the submitted location plan.	H 1
	I. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	L. Others	
	• Follow-up on previous audit section (Ref. No.:241113), item no. 241113-O01, 241113-O02, 241113-R01, 241113-R02 and 241113-R03 were remarked as 241120-O01, 241120-O02, 241120-R01, 241120-R02 and 241120-R03 respectively. Follow-up actions are needed to be reviewed.	

	Name	Signature	Date
Recorded by	Marco Ma		20 November 2024
Checked by	Dr. Priscilla Choy		20 November 2024

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	241127
Date	27 November 2024 (Wednesday)
Time	09:30 – 11:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Air Quality	
241127-O02	<ul style="list-style-type: none"> Wheel washing facilities at Portion 11 near Ho Sheung Heung Pai Fung Road should be maintained properly to avoid dust and debris exceeds the site area. 	B 7, B 20
	C. Construction Noise Impact	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	D. Water Quality	
241127-O01	<ul style="list-style-type: none"> Contractors were reminded to immediately establish proper drainage system for pumped groundwater at Portion 7. 	D 5
241127-R02	<ul style="list-style-type: none"> Provide complete drainage system to treat wastewater. (Shek Wu Hui Treatment Plant works area) 	D 5i
241127-R03	<ul style="list-style-type: none"> Enhance water mitigation measures to avoid surface runoff out of site boundary. (Portion 6) 	D 3
	E. Waste / Chemical Management	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	F. Cultural Heritage	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	G. Landscape and Visual	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	H. Ecology	
241127-R01	<ul style="list-style-type: none"> Dull green hoarding should be erected along the site boundary as according to the submitted location plan. 	H 1
	I. Permits/Licences	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	L. Others	
	<ul style="list-style-type: none"> Follow-up on previous audit section (Ref. No.:241120), item no. 241120-O01, 241120-R01, 241120-R02 and 241120-R03 were remarked as 241127-O01, 241127-R01, 241127-R02 and 241127-R03 respectively. Follow-up actions are needed to be reviewed. Item no. 241120-O02 was observed improved/rectified by the Contractor during site inspection. 	

	Name	Signature	Date
Recorded by	Marco Ma		27 November 2024
Checked by	Dr. Priscilla Choy		27 November 2024

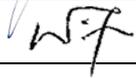
Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

ND/2019/03 – Kwu Tung North New Development Area, Phase 1: Development of Long Valley Nature Park

Weekly Site Inspection Record Summary

Checklist Reference Number	241105
Date	5 November 2024 (Tuesday)
Time	11:15 - 11:45

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 & 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.:241029), no major environmental deficiency was observed during the site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		5 November 2024
Checked by	Dr. Priscilla Choy		5 November 2024

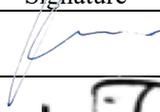
Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

ND/2019/03 – Kwu Tung North New Development Area, Phase 1: Development of Long Valley Nature Park

Weekly Site Inspection Record Summary

Checklist Reference Number	241114
Date	14 November 2024 (Thursday)
Time	13:45 - 14:15

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 & 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.:241105), no major environmental deficiency was observed during the site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		14 November 2024
Checked by	Dr. Priscilla Choy		14 November 2024

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/2019/03 – Kwu Tung North New Development Area, Phase 1: Development of Long Valley Nature Park

Weekly Site Inspection Record Summary

Checklist Reference Number	241119
Date	19 November 2024 (Tuesday)
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 & 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.:241114), no major environmental deficiency was observed during the site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		19 November 2024
Checked by	Dr. Priscilla Choy		19 November 2024

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/2019/03 – Kwu Tung North New Development Area, Phase 1: Development of Long Valley Nature Park

Weekly Site Inspection Record Summary

Checklist Reference Number	241126
Date	26 November 2024 (Tuesday)
Time	10:40 - 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. 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 & 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.:241119), no major environmental deficiency was observed during the site inspection.	

	Name	Signature	Date
Recorded by	Ivy Tam		26 November 2024
Checked by	Dr. Priscilla Choy		26 November 2024

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/2019/04 – Fanling North New Development Area, Phase 1: Fanling Bypass Eastern Section (Shek Wu San Tsuen North to Lung Yeuk Tau)

Weekly Site Inspection Record Summary

Checklist Reference Number	241107
Date	7 November 2024 (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. Noise	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
241107-R01	• Drip tray should be provided for Fuel/Chemical containers at A2.	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.: 241031), no major environmental deficiency was identified during the site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		7 November 2024
Checked by	Dr. Priscilla Choy		7 November 2024

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/2019/04 – Fanling North New Development Area, Phase 1: Fanling Bypass Eastern Section (Shek Wu San Tsuen North to Lung Yeuk Tau)

Weekly Site Inspection Record Summary

Checklist Reference Number	241112
Date	12 November 2024 (Tuesday)
Time	09:30 – 11:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Air Quality	
241112-R01	<ul style="list-style-type: none"> Site exit at Sha Tau Kok Road should be kept clean and free from tyre marks etc. 	B 9
	C. Noise	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	D. Water Quality	
241112-R02	<ul style="list-style-type: none"> Old drainage hole leads to Ng Tung River should be sealed to prevent seepage. 	D 3
	E. Waste / Chemical Management	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	F. Cultural Heritage	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	G. Landscape and Visual	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	H. Ecology	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	I. Permits/Licences	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	J. Others	
	<ul style="list-style-type: none"> Follow-up on previous audit section (Ref. No.: 241107), item no. 241107-R01 was observed improved/rectified by the Contractor during the site inspection. 	

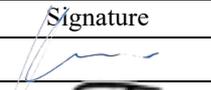
	Name	Signature	Date
Recorded by	Marco Ma		12 November 2024
Checked by	Dr. Priscilla Choy		12 November 2024

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/2019/04 – Fanling North New Development Area, Phase 1: Fanling Bypass Eastern Section (Shek Wu San Tsuen North to Lung Yeuk Tau)

Weekly Site Inspection Record Summary

Checklist Reference Number	241121
Date	21 November 2024 (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. 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.: 241112), item no. 241112-R01 and 241112-R02 were observed improved/rectified by the Contractor during the site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		21 November 2024
Checked by	Dr. Priscilla Choy		21 November 2024

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/2019/04 – Fanling North New Development Area, Phase 1: Fanling Bypass Eastern Section (Shek Wu San Tsuen North to Lung Yeuk Tau)

Weekly Site Inspection Record Summary

Checklist Reference Number	241127
Date	27 November 2024 (Wednesday)
Time	14:00 – 15:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	<i>B. Air Quality</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>C. Noise</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>D. Water Quality</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>E. Waste / Chemical Management</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>F. Cultural Heritage</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>G. Landscape and Visual</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>H. Ecology</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>I. Permits/Licences</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>J. Others</i>	
	• Follow-up on previous audit section (Ref. No.: 241121), no major environmental deficiency was identified during the site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		27 November 2024
Checked by	Dr. Priscilla Choy		27 November 2024

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/2019/05 – Fanling North New Development Area, Phase 1: Fanling Bypass Eastern Section between Shung Him Tong to Kau Lung Hang

Weekly Site Inspection Record Summary

Checklist Reference Number	241104
Date	4 November 2024 (Monday)
Time	14:00 – 15:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	<i>B. Air Quality</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>C. Noise</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>D. Water Quality</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>E. Waste / Chemical Management</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>F. Cultural Heritage</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>G. Landscape and Visual</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>H. Ecology</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>I. Permits/Licences</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>J. Others</i>	
	• Follow-up on previous audit section (Ref. No.: 241028), item no. 241028-R01 was observed improved/rectified by the Contractor during the site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		4 November 2024
Checked by	Dr. Priscilla Choy		4 November 2024

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/2019/05 – Fanling North New Development Area, Phase 1: Fanling Bypass Eastern Section between Shung Him Tong to Kau Lung Hang

Weekly Site Inspection Record Summary

Checklist Reference Number	241115
Date	15 November 2024 (Friday)
Time	11:00 – 12:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	<i>B. Air Quality</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>C. Noise</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>D. Water Quality</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>E. Waste / Chemical Management</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>F. Cultural Heritage</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>G. Landscape and Visual</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>H. Ecology</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>I. Permits/Licences</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>J. Others</i>	
	• Follow-up on previous audit section (Ref. No.: 241104), no major environmental deficiency was identified during the site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		15 November 2024
Checked by	Dr. Priscilla Choy		15 November 2024

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/2019/05 – Fanling North New Development Area, Phase 1: Fanling Bypass Eastern Section between Shung Him Tong to Kau Lung Hang

Weekly Site Inspection Record Summary

Checklist Reference Number	241121
Date	21 November 2024 (Thursday)
Time	09:30 – 10:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	<i>B. Air Quality</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>C. Noise</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>D. Water Quality</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>E. Waste / Chemical Management</i>	
241121-R01	• Drip tray should be provided for fuel/chemical containers.	E 14
	<i>F. Cultural Heritage</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>G. Landscape and Visual</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>H. Ecology</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>I. Permits/Licences</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>J. Others</i>	
	• Follow-up on previous audit section (Ref. No.: 241115), no major environmental deficiency was identified during the site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		21 November 2024
Checked by	Dr. Priscilla Choy		21 November 2024

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/2019/05 – Fanling North New Development Area, Phase 1: Fanling Bypass Eastern Section between Shung Him Tong to Kau Lung Hang

Weekly Site Inspection Record Summary

Checklist Reference Number	241125
Date	25 November 2024 (Monday)
Time	10:45 – 11:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	<i>B. Air Quality</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>C. Noise</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>D. Water Quality</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>E. Waste / Chemical Management</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>F. Cultural Heritage</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>G. Landscape and Visual</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>H. Ecology</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>I. Permits/Licences</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>J. Others</i>	
	• Follow-up on previous audit section (Ref. No.: 241121), all environmental deficiencies were observed improved/rectified by the Contractor during the site inspection.	

	Name	Signature	Date
Recorded by	Ivy Tam		25 November 2024
Checked by	Dr. Priscilla Choy		25 November 2024

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	241104
Date	4 November 2024 (Monday)
Time	10:00 – 10:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	<i>B. Air Quality</i>	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	<i>C. Construction Noise Impact</i>	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	<i>D. Water Quality</i>	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	<i>E. Waste / Chemical Management</i>	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	<i>F. Landscape and Visual</i>	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	<i>G. Ecology</i>	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	<i>H. Permits/Licences</i>	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	<i>I. Others</i>	
	<ul style="list-style-type: none"> Follow-up on previous audit section (Ref. No.: 241028), no major environmental deficiency was identified during the site inspection. The stockpile of dusty material (exposed soil) within ND/2019/07 near Ma Sik Road was observed. AECOM declared that is ND/2019/04's temporary storage. The stockpile was observed hydroseeded since 8 March 2024. The Contractor of ND/2019/04 was reminded to keep review and maintain regularly to prevent dust generation. It was noticed that some vehicle from the nearby site (using the same exit) did not wash their wheels before leaving the site. Therefore, it is important to ensure that an arrangement is made with the other site to guarantee that all vehicles are washed before they leave. 	

	Name	Signature	Date
Recorded by	Marco Ma		4 November 2024
Checked by	Dr. Priscilla Choy		4 November 2024

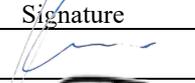
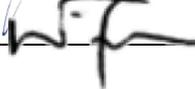
Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

ND/2019/07 – Fanling North New Development Area, Phase 1: Site Formation and Infrastructure Works

Weekly Site Inspection Record Summary

Checklist Reference Number	241115
Date	15 November 2024 (Friday)
Time	09:30 – 10:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	<i>B. Air Quality</i>	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	<i>C. Construction Noise Impact</i>	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	<i>D. Water Quality</i>	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	<i>E. Waste / Chemical Management</i>	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	<i>F. Landscape and Visual</i>	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	<i>G. Ecology</i>	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	<i>H. Permits/Licences</i>	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	<i>I. Others</i>	
	<ul style="list-style-type: none"> Follow-up on previous audit section (Ref. No.: 241104), no major environmental deficiency was identified during the site inspection. The stockpile of dusty material (exposed soil) within ND/2019/07 near Ma Sik Road was observed. AECOM declared that is ND/2019/04's temporary storage. The stockpile was observed hydroseeded since 8 March 2024. The Contractor of ND/2019/04 was reminded to keep review and maintain regularly to prevent dust generation. It was noticed that some vehicle from the nearby site (using the same exit) did not wash their wheels before leaving the site. Therefore, it is important to ensure that an arrangement is made with the other site to guarantee that all vehicles are washed before they leave. 	

	Name	Signature	Date
Recorded by	Marco Ma		15 November 2024
Checked by	Dr. Priscilla Choy		15 November 2024

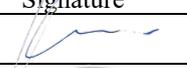
Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

ND/2019/07 – Fanling North New Development Area, Phase 1: Site Formation and Infrastructure Works

Weekly Site Inspection Record Summary

Checklist Reference Number	241118
Date	18 November 2024 (Monday)
Time	10:00 – 10:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	<i>B. Air Quality</i>	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	<i>C. Construction Noise Impact</i>	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	<i>D. Water Quality</i>	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	<i>E. Waste / Chemical Management</i>	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	<i>F. Landscape and Visual</i>	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	<i>G. Ecology</i>	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	<i>H. Permits/Licences</i>	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	<i>I. Others</i>	
	<ul style="list-style-type: none"> Follow-up on previous audit section (Ref. No.: 241115), no major environmental deficiency was identified during the site inspection. The stockpile of dusty material (exposed soil) within ND/2019/07 near Ma Sik Road was observed. AECOM declared that is ND/2019/04's temporary storage. The stockpile was observed hydroseeded since 8 March 2024. The Contractor of ND/2019/04 was reminded to keep review and maintain regularly to prevent dust generation. It was noticed that some vehicle from the nearby site (using the same exit) did not wash their wheels before leaving the site. Therefore, it is important to ensure that an arrangement is made with the other site to guarantee that all vehicles are washed before they leave. 	

	Name	Signature	Date
Recorded by	Marco Ma		18 November 2024
Checked by	Dr. Priscilla Choy		18 November 2024

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	241125
Date	25 November 2024 (Monday)
Time	10:00 – 10:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	<i>B. Air Quality</i>	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	<i>C. Construction Noise Impact</i>	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	<i>D. Water Quality</i>	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	<i>E. Waste / Chemical Management</i>	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	<i>F. Landscape and Visual</i>	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	<i>G. Ecology</i>	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	<i>H. Permits/Licences</i>	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	<i>I. Others</i>	
	<ul style="list-style-type: none"> Follow-up on previous audit section (Ref. No.: 241118), no major environmental deficiency was identified during the site inspection. The stockpile of dusty material (exposed soil) within ND/2019/07 near Ma Sik Road was observed. AECOM declared that is ND/2019/04's temporary storage. The stockpile was observed hydroseeded since 8 March 2024. The Contractor of ND/2019/04 was reminded to keep review and maintain regularly to prevent dust generation. It was noticed that some vehicle from the nearby site (using the same exit) did not wash their wheels before leaving the site. Therefore, it is important to ensure that an arrangement is made with the other site to guarantee that all vehicles are washed before they leave. 	

	Name	Signature	Date
Recorded by	Ivy Tam		25 November 2024
Checked by	Dr. Priscilla Choy		25 November 2024

**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/m ² 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	<p>Following dust suppression measures should also be incorporated by the Contractor to control the dust nuisance throughout the construction Phase</p> <ul style="list-style-type: none"> • 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
		<p>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.</p> <ul style="list-style-type: none"> • 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; • Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides; • Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed; • 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 					<p style="text-align: center;">^</p> <p style="text-align: center;">^</p> <p style="text-align: center;">^</p> <p style="text-align: center;">^</p> <p style="text-align: center;">N/A</p> <p style="text-align: center;">N/A</p> <p style="text-align: center;">^</p>

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
		<ul style="list-style-type: none"> 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: <ul style="list-style-type: none"> 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	^ ^ ^

App Q - IMPLEMENTATION SCHEDULE AND RECOMMENDED MITIGATION MEASURES

November 2024

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
		<p>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;</p> <ul style="list-style-type: none"> • 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. 					<p>^</p> <p>^</p>
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	^

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			representative locations		noise monitoring stations		
Water Quality Impact (Construction Phase)							
S5.7	W1	<p><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:</p> <p>Stormwater Pollution Control Plan</p> <ul style="list-style-type: none"> 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 8m³ 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	^ #

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
		<p>inputs from a variety of sources and suited to applications where the influent is pumped.</p> <ul style="list-style-type: none"> • 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 					<p style="text-align: center;">^</p> <p style="text-align: center;">^</p> <p style="text-align: center;">^</p> <p style="text-align: center;">#</p> <p style="text-align: center;">^</p>

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
		<p>foundation excavations should be discharged into storm drains via silt removal facilities.</p> <ul style="list-style-type: none"> • All open stockpiles of construction materials (for example, aggregates, sand and fill material) of more than 50m³ 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 					<p style="text-align: center;">^</p> <p style="text-align: center;">^</p> <p style="text-align: center;">^</p> <p style="text-align: center;">#</p>

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
		<p>public roads and drains.</p> <ul style="list-style-type: none"> 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. 					<p>N/A</p> <p>^</p> <p>^</p> <p>^</p>
S5.7	W2	<p><u>Stream Diversion</u></p> <ul style="list-style-type: none"> 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	<p><u>Groundwater from Contaminated Area</u></p> <ul style="list-style-type: none"> 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
S5.7	W4	<p><u>Sewage from Workforce</u></p> <p>Portable chemical toilets and sewage holding tanks should be provided for</p>	Handling of site sewage	Contractor	All construction sites	Construction Phase	^

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		<p>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.</p> <p>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.</p>					
Waste Management (Construction Waste)							
S7.6	WM1	<p><u>Waste Reduction Measures</u></p> <p>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:</p> <ul style="list-style-type: none"> • 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	<p style="text-align: center;">^</p> <p style="text-align: center;">^</p>

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		damage and contamination of construction materials; <ul style="list-style-type: none"> • 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	<u>Good Site Practice</u> The following good site practices are recommended throughout the construction activities: <ul style="list-style-type: none"> • 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	^ ^

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
		<ul style="list-style-type: none"> 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; 					<p>^</p> <p>^</p> <p>*</p>
S7.6	WM4	<p><u>Storage of Waste</u></p> <p>The following recommendation should be implemented to minimize the impacts:</p> <ul style="list-style-type: none"> 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	<p>^</p> <p>^</p> <p>^</p>
S7.6	WM5	<p><u>Collection and Transportation of Waste</u></p> <p>The following recommendation should be implemented to minimize the</p>	Minimize waste impact	Contractor	All construction	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
		impacts: <ul style="list-style-type: none"> • 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	<u>Excavated and C&D Material</u> 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: <ul style="list-style-type: none"> • 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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		<p>recycled and disposed of for checking;</p> <p>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.</p> <p>Wheel wash facilities have to be provided at the site entrance before the trucks leaving the works area.</p>					<p>N/A</p> <p>^</p>
S7.6	WM7	<p><u>Contaminated Soil</u></p> <p>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.</p>	Remediate contaminated soil	Contractor	All construction sites where applicable	Construction phase	^
S7.6	WM8	<p><u>Chemical Waste</u></p> <p>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</p>	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	<p><u>General Waste</u></p> <ul style="list-style-type: none"> 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	<p><u>Sewage</u></p> <ul style="list-style-type: none"> 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

App Q - IMPLEMENTATION SCHEDULE AND RECOMMENDED MITIGATION MEASURES

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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 <ul style="list-style-type: none"> • 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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		<p>possible to minimize runoff from excavated soils;</p> <ul style="list-style-type: none"> • 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	<p>Solidification/Stabilization</p> <ul style="list-style-type: none"> • 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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		<p>practicable from the nearby noise sensitive receivers;</p> <ul style="list-style-type: none"> • 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 banded. Stockpiles should be properly covered by impermeable sheeting to reduce dust emission during dry season or site run-off during rainy season; and <p>If necessary, there should be clear and separated areas for stockpiling of untreated and treated materials.</p>					<p style="text-align: center;">^</p> <p style="text-align: center;">^</p> <p style="text-align: center;">*</p>
S 8.7.2 and Appendix 8.4	LC9	<p><u>Safety Measures</u></p> <ul style="list-style-type: none"> • 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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		<p>necessary;</p> <ul style="list-style-type: none"> 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 <p>Eating, drinking and smoking should not be allowed in the excavation areas and treatment area to avoid inadvertent ingestion of arsenic containing soil.</p>					
Landfill Gas Hazard							
S10.6	LFG1	<ul style="list-style-type: none"> 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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		<p>adverse circumstances, should be present on all worksites throughout the works.</p> <ul style="list-style-type: none"> • 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 premises, 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. 					<p style="text-align: center;">^</p>

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		<ul style="list-style-type: none"> • 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. • During the construction works, adequate fire extinguishers and breathing apparatus sets should be made available on site and appropriate training given in their use. 					<p style="text-align: center;">^</p> <p style="text-align: center;">N/A</p> <p style="text-align: center;">^</p>

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		<ul style="list-style-type: none"> Ongoing gas monitoring should be considered for offices, stores etc set up on site. 					^
S10.6	LFG3	<p>Utility Companies</p> <ul style="list-style-type: none"> 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 MTL. <p>Building Management</p> <ul style="list-style-type: none"> 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 	<p>To minimize the risk of LFG hazards to the occupants, maintenance personnel, visitors and other users within MTL and its 250m Consultation Zone</p>	<p>Government / Developer within MTL and its 250m Consultation Zone</p>	<p>Buildings within MTL and its 250m Consultation Zone</p>	<p>Operation phase</p>	<p>N/A</p>

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		<p>precautions required to be taken.</p> <ul style="list-style-type: none"> 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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		<p>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.</p> <ul style="list-style-type: none"> 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 QLFQHA before the occupation of the building and implemented during its operational 					

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		phase.					
<i>Cultural Heritage (Pre-construction Phase)</i>							
S11.6.1	CH1	<p><u>Undertaking Further Archaeological Survey to Cover the Outstanding Areas</u></p> <p>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.</p>	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	<p><u>Undertaking Survey-cum-Rescue Excavation</u></p> <p>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.</p>	<p>To define the precise archaeological deposits extent and to preserve the archaeological resources as far as possible</p>	<p>Project Proponent/ Contractor/ Qualified Archaeologist</p>	<p>In KTN NDA, for Site 3 and In FLN NDA for Site 5.</p>	<p>After land resumption but before construction commencement of the zone</p>	<p>N/A</p>
S11.6.1	CH3	<p><u>Undertaking Preservation in-situ for Site 7</u></p> <p>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.</p> <p>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</p>	<p>To preserve the archaeological resources as far as possible.</p>	<p>Project Proponent/ Contractor/ Qualified Archaeologist</p>	<p>Site 7 in FLN NDA</p>	<p>After land resumption prior to preconstruction stage of the proposed Central Park (Area C2-8, Zoning O)</p>	<p>N/A</p>

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		Authority under the AM Ordinance.					
S11.6.1	CH4	<p><u>Undertaking Induction Training</u></p> <p>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.</p>	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	<p><u>Undertaking Archaeological Impact Assessment before Construction at A1</u></p> <p>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</p>	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

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		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	<p><u>Undertaking Archaeological Impact Assessment before Construction within A1 but except Area B1-8 and B1-9</u></p> <p>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.</p>	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	<p><u>Undertaking baseline condition survey and baseline vibration impact assessment</u></p> <p>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</p>	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

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		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	<p><u>Undertaking baseline condition survey and baseline vibration impact assessment</u></p> <p>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.</p>	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	<p><u>Conducting Photographic and Cartographic Records Prior to Removal/Relocation of Impacted Built Heritages</u></p> <p>Prior to removal/relocation of the directly impacted historical buildings and cultural/historical landscape features, photographic and cartographic</p>	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

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		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	<u>Conducting Photographic and Cartographic Records Prior to Removal/Relocation of Impacted Built Heritages</u> 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

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						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
<i>Cultural Heritage (Construction Phase)</i>							
S11.6.1	CH13	<u>Inform Upon Archaeological Discovery</u> 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	<u>Watertable Monitoring</u> 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

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S11.6.2	CH15	<p><u>Conducting Construction Vibration Monitoring and Structural Strengthening Measures</u></p> <p>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.</p>	<p>To minimize the potential impacts during Construction phase on any identified potential vibration impacted built heritage features</p>	Contractor	<p>Identified potential vibration impacted built heritage features</p>	<p>Construction phase, with details specified in baseline condition survey and baseline vibration impact assessment</p>	^
<i>Landscape and Visual Impact (Detailed Design, Prior to Construction, Construction and Operation Phases)</i>							
S.12.9	LV1	<p>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.</p> <p>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.</p>		Detailed design consultant/ Contractor	Throughout NDAs,	<p>Prior to Construction, Construction & for all planting, this should be installed as the areas become available, to achieve early establishment</p>	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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		<p>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.</p>					
S12.9 MM14.4	LV 4	<p>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.</p> <p>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</p>	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 – Existing 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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		<p>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</p>					
S.12.9 MM5	LV7	<p>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.</p> <p>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.</p> <p>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.</p> <p>For trees associated with highways e.g. roadside planting along highways, that are unavoidably affected and should be transplanted,</p>	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	<p>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.</p> <p>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.</p>	<p>To avoid substantial slope cutting and fill slopes.</p> <p>To prevent erosion and subsequent loss of landscape resources and character.</p> <p>To ensure man-made slopes are as visually amenable as possible.</p>	<p>Government / Detailed Design Consultant/ Contractor</p>	<p>Onsite</p>	<p>Prior to Construction, Construction Phase & Maintenance in Operation Phase</p>	<p>N/A</p>
S.12.9 MM7	LV9	<p>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.</p> <p>Compensatory planting is proposed at the potential open areas such as</p>	<p>Compensate for trees and shrubs lost due to the Project.</p>	<p>Government / Detailed Design Consultant/ Contractor</p>	<p>Onsite where possible. Otherwise consider offsite locations</p>	<p>Prior to Construction, Construction Phase & Maintenance in Operation Phase</p>	<p>N/A</p>

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		<p>open spaces, amenity areas, open areas of the streetscapes, as well as the open areas within development lots.</p> <p>Compensatory planting for shrubs should be considered in suitable locations. Native species such as <i>Melastoma malabathricum</i>, <i>Diospyros vaccinioides</i>, <i>Gardenia jasminoides</i>, <i>Ixora chinensis</i>, <i>Ligustrum sinense</i>, <i>Litsea rotundifolia</i>, <i>Melastoma dodecandrum</i>, <i>Atalantia buxifolia</i>, <i>Rhodomyrtus tomentosa</i>, <i>Rhaphiolepis indica</i>, and <i>Rhododendron simsii</i> are suggested.</p>					
S.12.9 MM8	LV10	<p>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.</p> <p>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).</p> <p>Native tree species are suggested for planting in the appropriate</p>					N/A

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		<p>locations, including <i>Ailanthus fordii</i>, <i>Bischofia javanica</i>, <i>Castanopsis fissa</i>, <i>Celtis sinensis</i>, <i>Cinnamomum burmannii</i>, <i>Cinnamomum camphora</i>, <i>Xanthoxylum avicennae</i>, <i>Hibiscus tiliaceus</i>, <i>Liquidambar formosana</i>, <i>Sapium discolor</i>, <i>Schefflera heptaphylla</i> and <i>Ilex rotunda</i>. In addition some understory vegetation may be planted including shrubs such as <i>Atalantia buxifolia</i>, <i>Diospyros vaccinioides</i>, <i>Gardenia jasminoides</i>, <i>Ixora chinensis</i>, <i>Ligustrum sinense</i>, <i>Litsea rotundifolia</i>, <i>Melastoma malabathricum</i>, <i>Melastoma dodecandrum</i>, <i>Rhodomyrtus tomentosa</i>, <i>Rhaphiolepis indica</i>, and <i>Rhododendron simsii</i>.</p> <p>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.</p>					

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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	<p>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.</p> <p>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)</p>	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	<p>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)</p> <p>Also see LV16, LV17, and LV18 as wetland planting should be provided along the embankments and beds of modified/ reprovisioned watercourses.</p>	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	<p>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.</p> <p>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.</p> <p>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)</p>	<p>Achieve a natural stream, similar to existing, including wetland planting provision for embankments</p>	<p>Government / Developer/ Detailed Design Consultant/ Contractor</p>	<p>Streams and channelized watercourses e.g. a Ma Tso Lung and Siu Han San Tsuen</p>	<p>Prior to Construction, Construction Phase & Maintenance in Operation Phase</p>	<p>N/A</p>
S12.9 MM14.2	LV17	<p>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.</p>	<p>Protect natural streams</p>	<p>Government / Developer/ Detailed Design Consultant/ Contractor</p>	<p>Streams and channelized watercourses e.g. a Ma Tso Lung and Siu Han</p>	<p>Prior to Construction, Construction Phase & Maintenance in Operation Phase</p>	<p>N/A</p>

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
		<p>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.</p> <p>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)</p>			San Tsuen		
S12.9 MM14.3	LV18	<p>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.</p>	<p>Minimize the necessity of watercourse modification, protect watercourses where possible and enhance channelized watercourses</p>	<p>Government / Developer/ Detailed Design Consultant/ Contractor</p>	<p>Channelized watercourse, particularly the Ma Wat River Channel Diversion</p>	<p>Prior to Construction, Construction Phase & Maintenance in Operation Phase</p>	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	<p>Pond Replacement –Principles adopted in the design of the NDAs ensure that they incorporate ponds within the RODPs.</p> <p>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.</p>	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	<p>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.</p> <p>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).</p>	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	<p>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</p> <p>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</p>	<p>Minimize impacts on Ma Tso Lung Stream and Ma Tso Lung San Tsuen Stream and riparian corridor of importance to species of conservation significance.</p>	<p>Project Proponent/ Detailed Design Consultant. (design of Ma Tso Lung Stream diversion and buffer zone habitat restoration measures)</p>	<p>KTN areas F1-2 and F1-3 and LMC Loop Eastern Connection Road.</p>	<p>Detailed design and construction phases.</p>	<p>N/A</p>
S13.9	E3	<p>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.</p>	<p>Minimize impacts on Siu Hang San Tsuen Stream and stream fauna.</p>	<p>PlanD, Project Proponent/ Detailed Design Consultant/ Contractor/ Maintenance Authority</p>	<p>FLN area D1-3.</p>	<p>Detailed design, construction and operation phases.</p>	<p>N/A</p>
S.13.9	E4	<p>Long Valley Nature Park (LVNP) designation, design and implementation.</p>	<p>Compensate for wetland loss arising from the project and protection of</p>	<p>Project Proponent/ Detailed Design</p>	<p>Long Valley KTN area C1-9 and any suitable areas to</p>	<p>Detailed design phase</p>	<p>N/A</p>

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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 egretty.	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 egretty. 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 egretty 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	<p>Preparation and implementation of Guidelines for building design measures to minimize mortality and light and glare impacts to fauna.</p> <p>Guidelines to address the following measures:</p> <p>Use opaque, non-transparent, non-reflective noise barriers for all developments associated with the Project.</p> <p>Measures to include the following:</p> <ul style="list-style-type: none"> • 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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		<ul style="list-style-type: none"> 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/Detail 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	<p>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.</p> <p>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.</p> <p>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.</p>	<p>Minimize disturbance impacts (including cumulative impacts with cycle track project) to flight-lines of breeding ardeids.</p>	<p>Project Proponent/ Detailed Design Consultant Contractor</p>	<p>Along and within Sheung Yue and Ng Tung Rivers, Long Valley, Long Valley and watercourse upstream areas including KTN area B3-12</p>	<p>Detailed design/ construction phase.</p>	<p>^</p>
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<i>Ecology (Construction Phase)</i>							
S13.9	E12	<p>Compensatory egret habitat provision and establishment.</p> <p>Review condition and location of egretries before commencement of works. Formulate and implement additional mitigation measures as appropriate.</p> <p>Phasing of works near and within Man Kam To Road Egret habitat outside breeding season</p>	<p>Compensate for loss of Man Kam To Road egret habitat.</p> <p>Avoid mortality of breeding egrets</p>	<p>Project Proponent/ Detailed Design Consultant/ Contractor</p>	<p>FLN area A1-7 500m from Man Kam To Road Egret habitat.</p>	<p>Construction phase.</p>	<p>^</p>
S13.9	E13	<p>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.</p> <p>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)</p> <p>Provision of alternative foraging habitat along main river channels for large waterbirds.</p>	<p>Minimize impacts on rivers and disturbance and fragmentation impacts on fauna</p>	<p>Project Proponent/ Detailed Design Consultant/ Contractor</p>	<p>Along and within the Sheung Yue, Ng Tung and Shek Sheung Rivers</p>	<p>Detailed design and construction phases.</p>	<p>^</p>

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S13.9	E14	<p>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.</p> <p>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.</p> <p>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.</p>	<p>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.</p>	<p>PlanD/ Project Proponent/ Developer/ Detailed Design Consultant/ Contractor. (Design of Ma Tso Lung Stream diversion and buffer zone habitat restoration measures)</p>	<p>KTN areas H1-1, F12 and F1-3 and Lok Ma Chau Loop Eastern Connection Road.</p>	<p>Detailed design and construction phases.</p>	<p>N/A</p>

App Q - IMPLEMENTATION SCHEDULE AND RECOMMENDED MITIGATION MEASURES

November 2024

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	<p>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.</p> <p>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.</p>	<p>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.</p>	Contractor	<p>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</p>	Construction phase.	*

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					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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		<p>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,</p> <p>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.</p> <p>Seek agreement of relevant authorities including AFCD in respect of proposed measures, then implement.</p> <p>Pre-site clearance check on all construction sites for presence of Chinese Bullfrog, translocation to suitable areas including LVNP.</p>	<p>avoid, minimize and/or compensate for impacts; including adjustments to design, timing of works, transplantation and translocation.</p>				
S13.9	E21	<p>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</p>	<p>Minimize impacts to flora and fauna of conservation significance. Minimize impacts to protected fauna and flora species. Consider</p>	<p>Government/ Developer/ Contractor/ Ecologist</p>	<p>All construction sites.</p>	<p>Prior to clearance of vegetation and structures.</p>	<p>N/A</p>

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
		<p>translocation. Seek agreement of relevant authorities including AFCD in respect of proposed measures, then implement.</p> <p>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.</p> <p>Seek agreement of relevant authorities including AFCD in respect of proposed measures then implement</p> <p>Pre-works commencement check on watercourses to be physically and/or hydrologically impacted by construction activities for presence of Small Snakehead and <i>Sommaniathelphusa zanklon</i>. Capture any <i>Sommaniathelphusa zanklon</i> found and translocate to Ma Tso Lung Stream/ other suitable areas including LVNP</p>	<p>and implement adjustments to avoid, minimize or compensate for impacts; including adjustments to design, timing of works, transplantation and translocation</p>				
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
<i>Specific Mitigation Measures for Designated Projects</i>							
<i>DP2- Castle Peak Road Diversion (Major Improvement)</i>							
<i>Landscape and Visual (Detailed Design, Prior to Construction, Construction and Operational Phases)</i>							

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	<p>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.</p> <p>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.</p>		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	<p>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.</p> <p>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.</p>	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 – Existing trees to be retained within the Project Site should be carefully protected during construction.	Protect and Preserve Trees	Government/ Detailed	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
		<p>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.</p> <p>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.</p>		Design Consultant/ Contractor		and Construction Phase	
S.12.A9 MM5	LV6- DP2	<p>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.</p>	Transplant Trees where suitable for transplantation	Government Detailed Design Consultant/ Contractor	<i>Onsite where possible, otherwise consider offsite locations</i>	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.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	<i>Onsite</i>	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	<i>In areas identified in the EIA Landscape Mitigation Plans and as agreed with AFCD</i>	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
		<p>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).</p> <p>Native tree species are suggested for planting in the appropriate locations, including <i>Ailanthus fordii</i>, <i>Bischofia javanica</i>, <i>Castanopsis fissa</i>, <i>Celtis sinensis</i>, <i>Cinnamomum burmannii</i>, <i>Cinnamomum camphora</i>, <i>Xanthoxylum avicennae</i>, <i>Hibiscus tiliaceus</i>, <i>Liquidambar formosana</i>, <i>Sapium discolor</i>, <i>Schefflera heptaphylla</i> and <i>Ilex rotunda</i>. In addition some understory vegetation may be planted including shrubs such as <i>Atalantia buxifolia</i>, <i>Diospyros vaccinioides</i>, <i>Gardenia jasminoides</i>, <i>Ixora chinensis</i>, <i>Ligustrum sinense</i>, <i>Litsea rotundifolia</i>, <i>Melastoma malabathricum</i>, <i>Melastoma dodecandrum</i>, <i>Rhodomyrtus tomentosa</i>, <i>Rhaphiolepis indica</i>, and <i>Rhododendron simsii</i>.</p> <p>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.</p>					
S.12.A9	LV10-	Vertical Greening – Planting of climbers to grow up vertical surfaces were	Soften hard surfaces and	Government	<i>On appropriate</i>	Prior to	N/A

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MM9	DP2	appropriate (e.g. viaduct piers, noise barriers).	facilities	Detailed Design Consultant/ Contractor	<i>structures</i>	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	<i>Along roads, around suitable built structures, or around VSRs to contain their view out to the NDA structures.</i>	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	<i>On viaducts or along roads.</i>	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A

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		<p>forms and textural finishes which improve aesthetics.</p> <p>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)</p>					
S.12.A9 MM13 & EIA Annex 13	LV13- DP2	<p>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)</p> <p>Also see LV16, LV17, and LV18 as wetland planting should be provided along the embankments and beds of modified/ reprovioned watercourses.</p>	Compensate for Marsh/ Wetland lost due to the Project.	Project Proponent/ Detailed Design Consultant/ Contractor/ Maintenance Authority	<i>Onsite where possible. Otherwise consider offsite locations</i>	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
S.12.A9 MM14.3	LV14- DP2	<p>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.</p> <p>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</p>	Minimize the necessity of watercourse modification, protect watercourses where possible and enhance channelized watercourses	Government / Detailed Design Consultant/ Contractor	<i>Channelized watercourse, particularly the Ma Wat River Channel Diversion</i>	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A

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		<p>maintenance work can be carried out and that the channel meets all its requirements for water flow, etc.</p> <p>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.</p>					
S.12.A9 MM15	LV15- DP2	<p>Pond Replacement –Principles adopted in the design of the NDAs ensure that they incorporate ponds within the RODPs.</p> <p>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.</p>	<p>Reprovision for ponds lost due to the Project.</p>	<p>Project Proponent/ Detailed Design Consultant/ Contractor/ Maintenance Authority</p>	<p><i>E1-7 and C1-9 (LVNP) in KNT NDA and generally throughout NDA</i></p>	<p>Prior to Construction, Construction Phase Maintenance in Operation Phase</p>	N/A
<i>Landscape and Visual (Construction)</i>							
S.12.A9 MM16	LV16- DP2	<p>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.</p> <p>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).</p>	<p>To screen undesirable views of the works site.</p>	<p>Contractor</p>	<p><i>Throughout NDAs</i></p>	<p>Construction Phase</p>	^

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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

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			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	^

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MM14.4	DP3	<p>be made of watercourses, to minimize any impacts e.g. at new bridge crossings, viaducts, road alignment etc.</p> <p>Guidelines stated should be followed.</p> <p>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.</p> <p>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.</p> <p>Bridges and box culverts should also be used to minimize the necessity of watercourse modification and protect the watercourses where necessary.</p>	watercourses	Design Consultant/ Contractor	<i>particularly the stream at Siu Hang San Tsuen that will flow under the Fanling Bypass Eastern Section</i>	And Construction Phase	
S.12.A9 MM4	LV5- DP3	<p>Tree Protection & Preservation – Existing trees to be retained within the Project Site should be carefully protected during construction.</p> <p>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.</p> <p>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</p>	Protect and Preserve Trees	Government Detailed Design Consultant/ Contractor	<i>Onsite</i>	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	<p>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.</p> <p>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.</p> <p>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.</p>	Transplant Trees where suitable for transplantation	Government Detailed Design Consultant/ Contractor	<i>Onsite where possible. Otherwise consider offsite locations.</i>	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
S.12.A9 MM6	LV7- DP3	<p>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</p>	<p>To avoid substantial slope cutting and fill slopes.</p> <p>To prevent erosion and</p>	Government Detailed Design Consultant/	<i>Onsite</i>	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
		<p>slope gradient and site conditions allow.</p> <p>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.</p>	<p>subsequent loss of landscape resources and character.</p> <p>To ensure man-made slopes are as visually amenable as possible.</p>	Contractor		Maintenance in Operation Phase	
S.12.A9 MM7	LV8- DP3	<p>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.</p> <p>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 <i>Melastoma malabathricum</i>, <i>Diospyros vaccinioides</i>, <i>Gardenia jasminoides</i>, <i>Ixora chinensis</i>, <i>Ligustrum sinense</i>, <i>Litsea rotundifolia</i>, <i>Melastoma dodecandrum</i>, <i>Atalantia buxifolia</i>, <i>Rhodomyrtus tomentosa</i>, <i>Rhaphiolepis indica</i>, and <i>Rhododendron simsii</i> are suggested.</p>	Compensate for trees and shrubs lost due to the Project.	Government Detailed Design Consultant/ Contractor	<i>Onsite where possible. Otherwise consider offsite locations</i>	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	<i>In areas</i>	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	<p>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.</p> <p>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 <i>Ailanthus fordii</i>, <i>Bischofia javanica</i>, <i>Castanopsis fissa</i>, <i>Celtis sinensis</i>, <i>Cinnamomum burmannii</i>, <i>Cinnamomum camphora</i>, <i>Xanthoxylum avicennae</i>, <i>Hibiscus tiliaceus</i>, <i>Liquidambar formosana</i>, <i>Sapium discolor</i>, <i>Schefflera heptaphylla</i> and <i>Ilex rotunda</i>. In addition some understory vegetation may be planted including shrubs such as <i>Atalantia buxifolia</i>, <i>Diospyros vaccinioides</i>, <i>Gardenia jasminoides</i>, <i>Ixora chinensis</i>, <i>Ligustrum sinense</i>, <i>Litsea rotundifolia</i>, <i>Melastoma malabathricum</i>, <i>Melastoma dodecandrum</i>, <i>Rhodomyrtus tomentosa</i>, <i>Rhaphiolepis indica</i>, and <i>Rhododendron simsii</i>. 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</p>	<p>woodland to compensate for those areas of quality woodland lost.</p>	<p>Proponent/ Detailed Design Consultant/ Contractor/ Maintenance Authority</p>	<p><i>identified in the EIA Landscape Mitigation Plans and as agreed with AFCD</i></p>	<p>Construction, Construction Phase & Maintenance in Operation Phase</p>	

App Q - IMPLEMENTATION SCHEDULE AND RECOMMENDED MITIGATION MEASURES

November 2024

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	<i>On appropriate structures</i>	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	<i>Along roads, around suitable built structures, or around VSRs to contain their view out to the NDA structures.</i>	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	<i>On viaducts or</i>	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	<p>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.</p> <p>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)</p>	straight edges and provide greening along roads.	Detailed Design Consultant/ Contractor	<i>along roads.</i>	Construction, Construction Phase & Maintenance in Operation Phase	
S.12.A9 MM13 EIA Annex 13	LV13- DP3	<p>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)</p> <p>Also see LV16, LV17, and LV18 as wetland planting should be provided along the embankments and beds of modified/ reprovisioned watercourses.</p>	Compensate for Marsh/ Wetland lost due to the Project.	Project Proponent/ Detailed Design Consultant/ Contractor/ Maintenance Authority	<i>Onsite where possible. Otherwise consider offsite locations</i>	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
S.12.A9 MM14.3	LV14- DP3	<p>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</p>	Minimize the necessity of watercourse modification,	Government / Detailed Design	<i>Channelized watercourse, particularly the</i>	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
		<p>Design, should be considered and appropriate mitigation measures included ensuring the new watercourses match the existing as far as possible.</p> <p>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.</p>	<p>protect watercourses where possible and enhance channelized watercourses</p>	<p>Consultant/ Contractor</p>	<p><i>Ma Wat River Channel Diversion</i></p>	<p>Phase & Maintenance in Operation Phase</p>	
S.12.A9 MM15	LV15- DP3	<p>Pond Replacement –Principles adopted in the design of the NDAs ensure that they incorporate ponds within the RODPs.</p> <p>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.</p>		<p>Project Proponent/ Detailed Design Consultant/ Contractor/ Maintenance Authority</p>	<p><i>E1-7 and C1-9 (LVNP) in KNT NDA and generally throughout NDA</i></p>	<p>Prior to Construction, Construction Phase Maintenance in Operation Phase</p>	N/A
Landscape and Visual (Construction)							
S.12.A9 MM16	LV16- DP3	<p>Screen Hoarding –Screen hoarding shall be erected along areas of the construction works site boundary where the works site borders publically</p>	<p>To screen undesirable views</p>	<p>Contractor</p>	<p><i>Throughout NDAs</i></p>	<p>Construction Phase</p>	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
		<p>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.</p> <p>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).</p>	of the works site.				
S.12.A9 MM17	LV17-DP3	<p>Light Control – Construction day and night time lighting should be controlled to minimize glare impact to adjacent VSRs during the Construction phase.</p> <p>Street and night time lighting shall also be controlled to minimize glare impact to adjacent VSRs during the operation phase.</p>	To minimize glare impact to adjacent VSRs	Government / Contractor	<i>Throughout NDAs</i>	Construction and Operation Phases	N/A
Ecology (Detailed Design, Construction and Operational Phases)							
S13.9	E3-DP3	<p>Use opaque, non-transparent, non-reflective noise barriers.</p> <p>Unnecessary lighting should be avoided.</p>	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/	<u>Throughout</u> <u>NDA</u> s,	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
		<p>try and restore these to their former state to suit future land use, should be adhered to.</p> <p>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.</p>		Contractor		planting, this should be installed as soon as the areas become available, to achieve early establishment	
S.12.A9 MM1	LV2- DP4	<p>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.</p>	Reduce topographical changes and minimize land resumption	Government / Detailed Design Consultant/ Contractor/	<u>Throughout NDAs, particularly for reservoirs</u>	Prior to Construction	N/A
S.12.A9 MM2	LV3- DP4	<p>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</p>	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
		<p>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.</p> <p>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.</p> <p>Construction time frame should also be considered and designs seek to keep it to a practical minimum.</p>	<p>into the surrounding landscape</p>				
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	<p>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.</p> <p>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.</p>		Detailed Design Consultant/ Contractor		and Construction Phase	
S.12.A9 MM5	LV5- DP4	<p>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.</p> <p>A detailed transplanting proposal will be submitted to relevant government departments for approval in accordance with ETWBTC</p>	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
		<p>2/2004 and 3/2006 and final locations of transplanted trees should be agreed prior to commencement of the work.</p> <p>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.</p>					
S.12.A9 MM6	LV6- DP4	<p>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.</p> <p>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.</p>	<p>To avoid substantial slope cutting and fill slopes.</p> <p>To prevent erosion and subsequent loss of landscape resources and character.</p> <p>To ensure man-made slopes are as visually amenable as possible.</p>	<p>Government Detailed Design Consultant/ Contractor</p>	<p>Onsite</p>	<p>Prior to Construction, Construction Phase & Maintenance in Operation Phase</p>	<p>N/A</p>
S.12.A9 MM7	LV7- DP4	<p>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</p>	<p>Compensate for trees and shrubs lost due to the Project.</p>	<p>Government Detailed Design Consultant/ Contractor</p>	<p>Onsite where possible. Otherwise consider offsite locations</p>	<p>Prior to Construction, Construction Phase & Maintenance in Operation Phase</p>	<p>N/A</p>

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
		<p>open spaces, amenity areas, open areas of the streetscapes, as well as the open areas within development lots.</p> <p>Compensatory planting for shrubs should be considered in suitable locations. Native species such as <i>Melastoma malabathricum</i>, <i>Diospyros vaccinioides</i>, <i>Gardenia jasminoides</i>, <i>Ixora chinensis</i>, <i>Ligustrum sinense</i>, <i>Litsea rotundifolia</i>, <i>Melastoma dodecandrum</i>, <i>Atalantia buxifolia</i>, <i>Rhodomyrtus tomentosa</i>, <i>Rhaphiolepis indica</i>, and <i>Rhododendron simsii</i> are suggested..</p>					
S.12.A9 MM8	LV8- DP4	<p>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.</p> <p>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).</p> <p>Native tree species are suggested for planting in the appropriate locations, including <i>Ailanthus fordii</i>, <i>Bischofia javanica</i>, <i>Castanopsis fissa</i>, <i>Celtis sinensis</i>, <i>Cinnamomum burmannii</i>, <i>Cinnamomum camphora</i>,</p>	<p>Reprovide areas of woodland to compensate for those areas of quality woodland lost.</p>	<p>Project Proponent/ Detailed Design Consultant/ Contractor/ Maintenance Authority</p>	<p>In areas identified in the EIA Landscape Mitigation Plans and as agreed with AFCD</p>	<p>Prior to Construction, Construction Phase & Maintenance in Operation Phase</p>	<p>N/A</p>

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
		<p>Xanthoxylum avicennae, Hibiscus 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, Rhamphiolepis indica, and Rhododendron simsii.</p> <p>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.</p>					
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
<i>Landscape and Visual (Construction)</i>							
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	<u>Throughout NDAs</u>	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	<u>Undertaking Survey-cum-Rescue Excavation</u> 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	<u>Undertaking Further Archaeological Survey to Cover the Outstanding Areas</u> 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

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		<p>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.</p>		Archaeologist	potential located within the work extent of DP4		
S11.6.1	CH3-DP4	<p><u>Undertaking Induction Training</u> 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</p>	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

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		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	<p><u>Conducting Photographic and Cartographic Records Prior to Removal/Relocation of Impacted Built Heritages</u></p> <p>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.</p>	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	<p><u>Undertaking baseline condition survey and baseline vibration impact assessment</u></p> <p>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</p>	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	<u>Relocation of Built Heritages</u> 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	<u>Conducting Construction Vibration Monitoring and Structural Strengthening Measures</u> 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
		<p>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.</p> <p>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.</p>	<p>general and integrate as best possible into the surrounding landscape</p>				
S.12.B9 MM4	LV4- DP5	<p>Tree Protection & Preservation – Existing trees to be retained within the Project Site should be carefully protected during construction.</p> <p>In particular OVTs will be preserved according to ETWB Technical Circular</p>	<p>Protect and Preserve Trees</p>	<p>Government Detailed Design</p>	<p>Onsite</p>	<p>Prior to Construction and</p>	<p>#</p>

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
		<p>(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.</p> <p>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.</p>		Consultant/ Contractor		Construction Phase	
S.12.B9 MM5	LV5- DP5	<p>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.</p> <p>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.</p>	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

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		<p>spaces, amenity areas, open areas of the streetscapes, as well as the open areas within development lots.</p> <p>Compensatory planting for shrubs should be considered in suitable locations. Native species such as <i>Melastoma malabathricum</i>, <i>Diospyros vaccinioides</i>, <i>Gardenia jasminoides</i>, <i>Ixora chinensis</i>, <i>Ligustrum sinense</i>, <i>Litsea rotundifolia</i>, <i>Melastoma dodecandrum</i>, <i>Atalantia buxifolia</i>, <i>Rhodomyrtus tomentosa</i>, <i>Rhaphiolepis indica</i>, and <i>Rhododendron simsii</i> are suggested.</p>					
S.12.B9 MM8	LV8- DP5	<p>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.</p> <p>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).</p> <p>Native tree species are suggested for planting in the appropriate locations, including <i>Ailanthus fordii</i>, <i>Bischofia javanica</i>, <i>Castanopsis fissa</i>, <i>Celtis sinensis</i>, <i>Cinnamomum burmannii</i>, <i>Cinnamomum camphora</i>, <i>Xanthoxylum</i></p>	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

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		<p><i>avicennae</i> <i>Hibiscus tiliaceus</i>, <i>Liquidambar formosana</i>, <i>Sapium discolor</i>, <i>Schefflera heptaphylla</i> and <i>Ilex rotunda</i>. In addition some understory vegetation may be planted including shrubs such as <i>Atalantia buxifolia</i>, <i>Diospyros vaccinioides</i>, <i>Gardenia jasminoides</i>, <i>Ixora chinensis</i>, <i>Ligustrum sinense</i>, <i>Litsea rotundifolia</i>, <i>Melastoma malabathricum</i>, <i>Melastoma dodecandrum</i>, <i>Rhodomyrtus omentosa</i>, <i>Rhaphiolepis indica</i>, and <i>Rhododendron simsii</i>.</p> <p>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.</p>					
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	<i>On appropriate structures</i>	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A

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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	<i>On appropriate buildings</i>	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	<i>Along roads, around suitable built structures, or around VSRs to contain their view out to the NDA structures.</i>	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	<u>Channelized watercourse, particularly the Ma Wat River Channel Diversion</u>	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A

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		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	<i>Throughout NDAs</i>	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	<i>Throughout NDAs</i>	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.	<i>Interface</i>	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.		<i>between areas/habitats of ecological importance and works areas (all sides of KTN area F1-2).</i>		
<i>DP7-Utilization of Treated Sewage Effluent (TSE) from Shek Wu Hui Sewage Treatment Works (SWHSTW)</i>							
<i>Landscape and Visual (Construction Phase and Operational Phase)</i>							
S.12.9 MM4	LV1- DP7	<p>Tree Protection & Preservation – Existing 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.</p> <p>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</p>	Protect and Preserve Trees	Government / Detailed Design Consultant/ Contractor	<i>Onsite</i>	Prior to Construction and Construction Phase	N/A

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		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	<i>On appropriate structures</i>	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	<i>On appropriate buildings</i>	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	<i>Throughout NDAs.</i>	Prior to Construction, Construction & for all planting, this should be installed as soon as the areas become	^

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		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	<u>Throughout NDAs, particularly for reservoirs</u>	Prior to Construction	N/A
S.12.D9 MM4	LV3- DP10	Tree Protection & Preservation – Existing 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	<u>Onsite</u>	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
		<p>works adjacent to all retained trees, including trees in Contractor’s works areas.</p> <p>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.</p>					
S.12.D9 MM5	LV4- DP10	<p>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.</p> <p>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.</p> <p>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</p>	Transplant Trees where suitable for transplantation	Government/ Detailed Design Consultant/ Contractor	<u>Onsite where possible.</u> <u>Otherwise consider offsite locations</u>	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	<p>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.</p> <p>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.</p>	<p>To avoid substantial slope cutting and fill slopes.</p> <p>To prevent erosion and subsequent loss of landscape resources and character.</p> <p>To ensure man-made slopes are as visually amenable as possible.</p>	<p>Government/ Detailed Design Consultant/ Contractor</p>	<p><u>Onsite</u></p>	<p>Prior to Construction, Construction Phase & Maintenance in Operation Phase</p>	<p>N/A</p>
S.12.D9 MM7	LV6- DP10	<p>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.</p> <p>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.</p> <p>Compensatory planting for shrubs should be considered in suitable locations. Native species such as <i>Melastoma malabathricum</i>, <i>Diospyros vaccinioides</i>, <i>Gardenia jasminoides</i>, <i>Ixora chinensis</i>, <i>Ligustrum sinense</i>, <i>Litsea rotundifolia</i>, <i>Melastoma</i></p>	<p>Compensate for trees and shrubs lost due to the Project.</p>	<p>Government/ Detailed Design Consultant/ Contractor</p>	<p><u>Onsite where possible.</u> <u>Otherwise consider offsite locations</u></p>	<p>Prior to Construction, Construction Phase & Maintenance in Operation Phase</p>	<p>N/A</p>

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
		<i>dodecandrum, Atalantia buxifolia, Rhodomyrtus tomentosa, Rhapsiolepis indica, and Rhododendron simsii</i> are suggested.					
S.12.D9 MM8	LV7- DP10	<p>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.</p> <p>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).</p> <p>Native tree species are suggested for planting in the appropriate locations, including <i>Ailanthus fordii, Bischofia javanica, Castanopsis fissa, Celtis sinensis, Cinnamomum burmannii, Cinnamomum camphora, Xanthoxylum avicennae, Hibiscus tiliaceus, Liquidambar formosana, Sapium discolor, Schefflera heptaphylla and Ilex rotunda</i>. In addition some understory vegetation may be planted including shrubs such as <i>Atalantia buxifolia, Diospyros vaccinioides, Gardenia jasminoides, Ixora chinensis, Ligustrum sinense, Litsea rotundifolia, Melastoma malabathricum, Melastoma dodecandrum, Rhodomyrtus tomentosa,</i></p>	Reprovide areas of woodland to compensate for those areas of quality woodland lost.	Project Proponent/ Detailed Design Consultant/ Contractor/ Maintenance Authority	<u><i>In areas identified in the EIA Landscape Mitigation Plans and as agreed with AFCD</i></u>	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
		<p><i>Rhaphiolepis indica, and Rhododendron simsii.</i></p> <p><i>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.</i></p>					
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	<u>On appropriate structures</u>	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	<u>Along roads, around suitable built structures, or around VSRs to contain their view out to the NDA structures.</u>	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/	<u>On viaducts or</u>	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	<p>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.</p> <p>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)</p>	edges and provide greening along roads.	Detailed Design Consultant/ Contractor	<u>along roads.</u>	Construction Phase & Maintenance in Operation Phase	
S.12.D9 MM14.3	LV11- DP10	<p>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</p>	Minimize the necessity of watercourse modification, protect watercourses where possible and enhance channelized watercourses	Government/ Detailed Design Consultant/ Contractor	<u>Channelized watercourse, particularly the Ma Wat River Channel Diversion</u>	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	<u>Throughout NDAs</u>	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	<u>Throughout NDAs</u>	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/	<u>Throughout NDAs</u>	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.	<i>FLN area D1-3.</i>	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.	<i>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).</i>	Construction phase.	^
Cultural Heritage (Construction Phase)							
S11.6.2	CH4-DP10	<u>Conducting Construction Vibration Monitoring and Structural Strengthening Measures</u> Construction vibration monitoring and structural strengthening measures	To minimize the potential impacts during Construction phase on any	Contractor.	<i>Identified potential vibration impacted built</i>	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		<i>heritage features</i>	survey and baseline vibration impact assessment,	
<i>DPI2-Reprovision of temporary wholesale market in FLN NDA</i>							
<i>Landscape and Visual (Detailed Design, Prior to Construction, Construction and Operational Phases)</i>							
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	<p>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.</p> <p>All Noise barriers, particularly noise barriers but also any barriers</p>	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
		<p>proposed for ecological impact mitigation, should be kept to a practical minimum, and be of such a design 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.</p> <p>Construction time frame should also be considered and designs seek to keep it to a practical minimum.</p>					
S.12.D9 MM4	LV4- DP12	<p>Tree Protection & Preservation – Existing 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.</p> <p>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</p>	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	<p>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.</p> <p>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.</p> <p>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.</p>	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
		<p>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.</p> <p>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.</p>	<p>To prevent erosion and subsequent loss of landscape resources and character.</p> <p>To ensure man-made slopes are as visually amenable as possible.</p>	<p>Consultant/ Contractor</p>		<p>Maintenance in Operation Phase</p>	
S.12.D9 MM7	LV7- DP12	<p>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.</p> <p>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.</p> <p>Compensatory planting for shrubs should be considered in suitable locations. Native species such as <i>Melastoma malabathricum</i>, <i>Diospyros vaccinioides</i>, <i>Gardenia jasminoides</i>, <i>Ixora chinensis</i>, <i>Ligustrum sinense</i>, <i>Litsea rotundifolia</i>, <i>Melastoma dodecandrum</i>, <i>Atalantia buxifolia</i>,</p>	<p>Compensate for trees and shrubs lost due to the Project.</p>	<p>Government / Detailed Design Consultant/ Contractor</p>	<p>Onsite where possible. Otherwise consider offsite locations</p>	<p>Prior to Construction, Construction Phase & Maintenance in Operation Phase</p>	<p>N/A</p>

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
		<i>Rhodomyrtus tomentosa, Rhapsiolepis indica, and Rhododendron simsii</i> 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	<p>Light Control – Construction day and night time lighting should be controlled to minimize glare impact to adjacent VSRs during the Construction phase.</p> <p>Street and night time lighting shall also be controlled to minimize glare impact to adjacent VSRs during the operation phase.</p>	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 2024

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	8.445	0.000	1.398	0.959	6.088	7.362	0.007	0.431	0.021	0.000	0.441
February	1.784	0.000	0.707	0.212	0.866	1.143	0.005	0.746	0.646	0.000	0.225
March	1.617	0.000	1.035	0.465	0.117	6.275	0.005	0.515	0.007	0.000	0.231
April	5.239	0.000	1.805	0.000	3.434	3.935	0.001	0.443	0.004	9.280	0.130
May	2.026	0.000	1.897	0.000	0.129	3.147	0.006	0.313	0.495	10.240	0.154
June	2.101	0.000	1.883	0.022	0.196	5.719	0.007	0.417	0.006	0.000	0.205
Sub-total	21.212	0.000	8.724	1.658	10.830	27.582	0.030	2.865	1.179	19.520	1.386
July	1.675	0.000	1.407	0.000	0.268	5.768	0.003	0.310	0.003	0.000	0.120
August	1.873	0.000	1.873	0.000	0.000	4.962	0.006	0.432	0.004	0.540	0.305
September	0.948	0.000	0.932	0.000	0.017	2.072	0.004	0.343	0.004	0.000	0.211
October	3.066	0.000	1.919	1.098	0.049	1.460	0.001	0.446	1.311	0.594	0.231
November*	2.735	0.000	1.557	1.178	0.000	1.226	0.002	0.443	0.672	0.000	0.133
December											
Total	31.510	0.000	16.411	3.935	11.164	43.070	0.046	4.839	3.171	20.654	2.386

*Remark: The quantity of "Disposed as Public Fill" and "Others, e.g. general refuse" is up to 20 November 2024.

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 50,000m³.
 (5) Conversion factors for reporting purpose:
 in-situ: rock = 2.5 tonnes/m³; soil = 2.0 tonnes/m³
 excavated: rock = 2.0 tonnes/m³; soil = 1.8 tonnes/m³
 broken concrete and bitumen = 2.4 tonnes/m³
 C&D Waste = 0.9 tonnes/m³
 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 2024

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)
Jan	1,065.96	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	165.96
Feb	193.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	193.86
Mar	7,087.36	0.00	0.00	6,931.23	0.00	0.00	0.00	0.00	0.00	0.00	156.13
Apr	4,808.02	0.00	0.00	4,697.15	0.00	0.00	0.00	0.00	0.00	0.00	110.87
May	3,436.95	0.00	0.00	3,313.24	0.00	0.00	0.00	0.00	0.00	0.00	123.71
June	6,099.67	0.00	0.00	5,890.47	0.00	0.00	0.00	0.00	0.00	0.00	209.20
Sub-total	22,691.81	0.00	900.00	20,832.08	0.00	0.00	0.0000	0.00	0.0000	0.0000	959.730
July	4,247.87	0.00	0.00	4,107.16	0.00	0.00	0.00	0.00	0.00	0.00	140.71
Aug	5,430.27	0.00	0.00	5,290.39	0.00	0.00	0.00	0.00	0.00	0.00	139.88
Sept	1,042.81	0.00	0.00	855.49	0.00	0.00	0.00	0.00	0.00	0.00	187.32
Oct	602.27	0.00	0.00	460.03	0.00	0.00	0.00	0.00	0.00	0.00	142.24
Nov	167.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	167.69
Dec											
Sub-total	11,490.91	0.00	0.00	10,713.07	0.00	0.00	0.00	0.00	0.00	0.00	777.84
Total	34,182.72	0.00	900.00	31,545.15	0.00	0.00	0.00	0.00	0.00	0.00	1,737.57

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.

Forecast of Total Quantities of C&D Materials to be Generated from the ND/2019/02

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	Chemicals Waste	Others, e.g. general refuse
									(see Note 2)		
	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)
Total:	234,210	8,400	2,500	0	231,710	600	100	1.0	0.5	0.5	375

Sang Hing – Kuly Joint Venture

Name of Department: CEDD

Contract No.: ND/2019/03

Kwu Tung North and Fanling North New Development Areas, Phase 1:

Development of Long Valley Nature Park

Monthly Summary Waste Flow Table for 2024 (Year)

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	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 '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
Jan	0.60	0.00	0.00	0.10	0.51	0.00	0.00	0.00	0.00	0.00	0.00
Feb	0.04	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00
Mar	0.08	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00
Apr	0.09	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.00
May	0.03	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00
Jun	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sub-Total	0.84	0.00	0.00	0.10	0.74	0.00	0.00	0.00	0.00	0.00	0.00
Jul	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Aug	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sep	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Oct	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nov	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Dec											
Total	0.84	0.00	0.00	0.10	0.74	0.00	0.00	0.00	0.00	0.00	0.00

*Remark: Imported Fill not taken into account of Total Quantity Generated

#Revised Figure

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 '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
9.00	2.00	1.00	1.00	6.00	10.00	3.00	3.00	1.00	1.00	3.00

*Remark: Figure to be revised if necessary

Notes:

- 1 The performance targets are given in ETWB Technical Circular PS Clause 6(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 total amount of C&D materials expected to be generated from the Works, together with a breakdown of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,000 m³. (ETWB Technical Circular PS Clause 5(4)(b) refers). [Delete Note (4) and the table above on the forecast, where inapplicable].

Monthly Summary Waste Flow Table for 2024 (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)
Jan	2,793.60	0.00	0.00	818.85	1809.51	0.00	0.00	0.00	0.00	0.00	0.00	165.24
Feb	5,244.30	0.00	4,415.19	0.00	655.72	0.00	45.08	0.00	0.00	0.00	0.00	128.31
Mar	11,368.95	0.00	6,162.61	0.00	5,097.81	0.00	0.012	0.031	0.0015	0.00	0.00	108.49
Apr	13,933.23	0.00	4,046.85	0.00	9,742.31	0.00	0.00	0.00	0.00	0.00	0.00	144.07
May	13,168.94	0.00	1,960.23	0.00	11,048.08	0.00	11.19	0.00	0.00	0.00	0.00	149.44
June	15,595.14	0.00	423.69	0.00	15,026.37	0.00	0.00	0.0324	0.00	0.00	0.00	145.05
Sub-total	62,104.15	0.00	17,008.56	818.85	43,379.80	0.00	56.28	0.06	0.002	0.000	0.00	840.60
July	6,254.82	0.00	175.49	0.00	5,888.30	0.00	0.00	0.00	0.00	0.00	0.00	191.03
Aug	6,748.78	0.00	2,352.45	0.00	4,170.80	0.00	0.001	0.0249	0.0008	0.00	0.00	225.50
Sept	7,589.61	0.00	3,756.53	0.00	3,606.97	0.00	0.00	0.00	0.00	0.00	0.00	226.11
Oct	6,087.51	0.00	4,573.03	0.00	1,233.19	0.00	0.00	0.00	0.00	0.00	0.00	281.29
Nov	6,168.64	0.00	5,153.88	0.00	719.23	0.00	0.00	0.00	0.00	0.00	0.00	295.53
Dec												
Sub-total	32,849.35	0.00	16,011.37	0.00	15,618.49	0.00	0.00	0.02	0.00	0.00	0.00	1,219.46
Total	94,953.50	0.00	33,019.93	818.85	58,998.29	0.00	56.28	0.09	0.00	0.00	0.00	2,060.06

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



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 2024 (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) <small>(see Note 3)</small>	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-24	1.587	0.000	0.408	0.000	1.179	0.000	0.008	1.462	0.006	6.520	0.000	176.990
Feb-24	1.316	0.000	0.174	0.000	1.142	0.000	0.009	1.328	0.005	0.000	0.000	112.820
Mar-24	1.122	0.000	0.048	0.000	1.074	0.000	0.000	0.000	0.000	0.000	0.000	135.440
Apr-24	1.782	0.000	0.234	0.000	1.548	0.000	0.007	1.562	0.004	0.000	0.000	117.450
May-24	2.117	0.000	0.136	0.000	1.981	0.000	0.031	1.760	0.058	5.279	0.100	126.430
Jun-24	2.211	0.000	0.210	0.000	2.001	0.000	0.030	1.508	0.064	0.000	0.000	159.390
Sub-total	10.135	0.000	1.210	0.000	8.925	0.000	0.085	7.620	0.137	11.799	0.100	828.520
Jul-24	1.858	0.000	0.414	0.000	1.444	0.000	0.031	1.534	0.082	0.000	0.000	163.970
Aug-24	1.836	0.000	0.072	0.000	1.764	0.000	0.066	2.088	0.083	0.000	0.000	219.480
Sep-24	2.126	0.000	0.066	0.000	2.060	0.000	0.018	1.427	0.057	0.000	0.000	161.750
Oct-24	2.845	0.000	0.390	0.000	2.455	0.000	0.480	1.711	0.850	0.000	0.000	180.050
Nov-24	1.754	0.000	0.750	0.000	1.004	0.000	0.000	0.000	0.000	0.000	0.000	73.510
Dec-24												
Total in 2024	20.554	0.000	2.902	0.000	17.652	0.000	0.680	14.380	1.209	11.799	0.100	1627.280
Total of the Project since 2020	134.947	0.000	18.043	2.857	114.047	5.110	142.788	35.149	5.347	819.512	24.982	5932.010

*Approx. estimation for each dump truck is 6m³/truck or 12 ton/truck

Total Quantity of Inert C&D Materials Generated: 134.947 (in '000m³) (a) = (b)+ (c)+(d)+(e)

Monthly Summary Waste Flow Table for 2024 (year)

*Due to EPD website, updated to 20/11/2024

Name of Person completing the record: Sedo SZE (EO)

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	0.040
Feb	0.0057	0	0	0	0.0057	0	0	0	0	0	0.037
Mar	0	0	0	0	0	0	0	0	0	0	0.020
Apr	0	0	0	0	0	0	0	0	0	0	0.022
May	0	0	0	0	0	0	0	0	0	0	0.045
Jun	0	0	0	0	0	0	0	0	0	0	0.028
Sub-total	0.0057	0.000	0.000	0.000	0.0057	0.000	0.000	0.000	0.000	0.000	0.192
Jul	0	0	0	0	0	0	0	0	0	0	0.036
Aug	0	0	0	0	0	0	0	0	0	0	0.034
Sep	0	0	0	0	0	0	0	0	0	0	0.007
Oct	0	0	0	0	0	0	0	0	0	0	0.069
Nov	0	0	0	0	0	0	0	0	0	0	*0.020
Dec											
Total	0.006	0.000	0.000	0.000	0.006	0.000	0.000	0.000	0.000	0.000	0.338

- 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 Generated = 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)	13 th 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)	11 th 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)	27 th 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)	7 th 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 <i>Supervisor</i> , 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)	13 th 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)	22 nd 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)	28 th 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)	4 th February 2021	A complaint was received from EPD call on 2 nd February 2021 regarding a noise complaint from a Tong Hang villager about noise from CTC storage yard at around 19:00 – 20:00 on 1 st 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 1 st 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)	16 th February 2021	A complaint was received from EPD call on 10 th February 2021 regarding a noise complaint from a Tong Hang villager about some impact noise from CTC Storage yard at Sunday's daytime (7 th February 2021).	Under investigation, erection of chain link fence for separating works area and adjacent village house was conducted by a sub-contractor on 7 th 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)	2 nd March 2021	A complaint was received from EPD call on 24 th 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 <i>supervisor</i> 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)	1 st 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)	15 th March 2021	A complaint was received from EPD call and an inspection by EPD was conducted on 9 th 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)	9 th 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 24 th and 25 th 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)	9 th 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
				<p>snipe was found;</p> <ol style="list-style-type: none"> 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)	23 rd 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.	<p>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.</p> <p>The following mitigation measures will keep implemented and inspected:</p> <ol style="list-style-type: none"> 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
				<p>several locations of the site area;</p> <p>4. Bund/seal off works area near river and set up with dewatering system;</p> <p>5. Spare water pumps and sand bags for emergency use during heavy rain;</p> <p>6. Regular training to the operators of wastewater treatment facilities; and</p> <p>7. Regular checking and maintenance of the wastewater treatment facilities and desilting tank.</p>	
COM-2021-04-03	Near Shek Wu San Tsuen, Sheung Shui (ND/2019/04)	28 th April 2021	A complaint was referred from EPD regarding to construction dust arising from dump trucks from construction sites near Shek Wu San Tsuen.	<p>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.</p> <p>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.</p>	Closed
COM-2021-05-01	Near Tong Hang section of Ma Wat River (ND/2019/05)	17 th 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)	2 nd 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.	<p>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.</p> <p>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.</p> <p>The Contractor has been implement following mitigation measure upon received the complaint:</p> <ul style="list-style-type: none"> • 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)	3 rd September 2021	A complaint was referred by EPD regarding C&D waste stored on site.	<p>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.</p> <p>The Contractor has been implement following mitigation measure upon received the complaint:</p> <ul style="list-style-type: none"> 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. <p>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.</p>	Closed
COM-2021-11-01	Close to Shek Wu San Tsuen (ND/2019/04)	3 rd November 2021	A complaint was referred from EPD on 22 th November 2021, about various issues including suspected environmental nuisances from the captioned Project from a member of public on 3 rd Nov 2021. He followed-up again on 19 th Nov 2021.	<p>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.</p> <p>Air quality monitoring was carried out at location FLN-DMS1 - Scattered Village</p>	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				<p>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.</p> <p>The Contractor has been implement following mitigation measure upon received the complaint:</p> <ul style="list-style-type: none"> • 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)	13 rd 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。"	<p>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:</p> <ul style="list-style-type: none"> • 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 <p>The Contractor has been implement following mitigation measure upon received the complaint:</p> <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • 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)	13 rd 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)	28 th 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，產生很大的噪音及很多廢氣。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

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				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)	17 th February 2022	<p>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.</p> <p>Details of complaint case received on 13 Feb 2022: 「本人途經唔上水梧桐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」</p> <p>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。」</p>	<p>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.</p> <p>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.</p> <p>In addition, it is reported that suspected contaminated water was discharging to Ma Wat River from surrounding industrial buildings near C5 contract site.</p> <p>Based on the findings of investigation, no foam</p>	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				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)	2 nd 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"	<p>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.</p> <p>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.</p>	Closed
COM-2022-03-02	Near Ho Sheung Heung (ND/2019/02)	23 rd 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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			<p>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 "</p>	<p>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 Portion 11. 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.</p> <p>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.</p> <p>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.</p> <p>Based on the findings of investigation, all plants</p>	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				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)	5 th 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)	5 th 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機並無異常，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)	5 th 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有，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)	21 st 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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			<p>"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有人工作。故亦不一需要長時間開發發電機，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"</p>	<p>alternatively (one is solely for standby purpose) for power supply of site works and containers.</p> <ol style="list-style-type: none"> 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. <p>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).</p> <p>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</p> <p>For odour mitigation measures, on top of currently</p>	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				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)	27 th 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”	<p>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.</p> <p>EPD carried out complaint investigation at Portion 1b / 1c on 26 July 2022 at 11:00, no adverse comment was given.</p> <p>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.</p> <p>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.</p>	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
COM-2022-07-21	Lower Ng Tung River (from upstream Ma Wat River) (ND/2019/05)	29 th July 2022	<p>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.</p> <p>Based on peripheral inspection, the muddy water was spotted.</p>	<p>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.</p> <p>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.</p> <p>Meanwhile, below are some JV's regular preventive measures for water pollution control:</p> <ol style="list-style-type: none"> 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)	8 th August 2022	<p>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.</p> <p>The complaint content: "近電燈柱</p>	<p>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</p>	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
			EB1339 沿麻芴河一帶，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。"	<p>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.</p> <p>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.</p> <p>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.</p>	
COM-2022-08-16a	Ma Wat River near Lamp Post EB1339 (ND/2019/05)	16 th 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
			<p>August 2022. EPD forwarded the case to ET through email on 17 August 2022.</p> <p>The complaint content: " 本人留意到近麻笏村的麻笏河有大量水泥流入河，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 and 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。"</p>	<p>investigation are focusing on these two works area locations.</p> <ol style="list-style-type: none"> 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
				<p>submitted to EPD.</p> <p>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.</p> <p>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.</p> <p>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.</p>	
COM-2022-08-16b	Ma Sik Road and Sha Tau Kok Road near Lung Yeuk Tau (ND/2019/04)	16 th 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 mess 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)	1 st 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
				<p>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.”</p> <p>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.</p>	
COM-2022-09-29	Construction site nearby Dills Corner Garden Blk 5 (ND/2019/02)	29 th 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！”	<p>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.</p> <p>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</p>	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)	7 th October 2022	Complaint received by EPD on 6 Oct 2022 and forwarded to ET on 7 Oct 2022. “近電燈柱 EB1339 近麻笏河，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、麻笏村、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)	17 th 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	28 th 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
				<p>monitored.</p> <p>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.</p>	
COM-2022-10-31	near Po Lau Road, Kwu Tung (ND/2019/01)	31 st 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”	<p>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.</p> <ol style="list-style-type: none"> 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
				<p>6. Dust monitoring was carried out at KTN-DMS4(B) on 21 Oct 2022 and 27 Oct 2022, no exceedance was recorded.</p> <p>7. Cover the slope surface with impervious sheeting.</p> <p>8. Addition water browser with capacity 20,000L was deployed on site on 01 November 2022.</p> <p>9. Hydroseeding to exposed soil once the formation level reached.</p> <p>10. Keep closely monitoring on the concerned area.</p>	
COM-2022-11-10	Construction site near Shek Wu San Tsuen North (ND/2019/04)	10 th 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."	<p>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.</p> <p>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.</p>	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)	7 th December 2022	<p>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？”</p> <p>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芴河流中，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。</p> <p>高空掉建築物很危險”</p>	<p>The investigation results are as follows:</p> <ol style="list-style-type: none"> 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: <ol style="list-style-type: none"> 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. <p>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.</p>	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)	12 th 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

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				<p>accumulated mud and cause the wastewater become turbid / muddy.</p> <p>9. Visual comparison was conducted with ET on 17 January 2023, the colour of the glass bottle collected from wastewater treatment plant looks clear when compare with the standard solution.</p> <p>10. During the ad-hoc inspection on 27 January 2023, inadequate treated wastewater discharge from nearby private construction site was observed.</p> <p>Mitigation Measures and Follow-Up Actions:</p> <ol style="list-style-type: none"> 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. <p><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</p>	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				<p>complaint location.</p> <ol style="list-style-type: none"> 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 workforce 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. <p>Conclusion: Based on the findings of investigation, CW-KL</p>	

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)	3 rd 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.	<p>The investigation result as follows:</p> <p>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.</p> <ol style="list-style-type: none"> 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
				<p>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.</p> <p>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.</p>	

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)	8 th 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)	3 rd 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	<p>The investigation result as follows:</p> <ol style="list-style-type: none"> 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, <ul style="list-style-type: none"> (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 <p>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.</p>	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)	9 th August 2023	<p>EPD received a complaint with ref.: N07/RN/00018620-23 on 4 Aug 2023.</p> <p>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"</p>	<p>The investigation result as follows:</p> <p>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 tendonning) 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.</p> <p>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: <ul style="list-style-type: none"> - 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 </p> <p>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</p>	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)	25 th August 2023	<p>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.</p> <p>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/ktnda/D_KTN_1A_BW_SD_compress_1.pdf)</p> <p>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</p>	<p>The investigation result as follows:</p> <ul style="list-style-type: none"> - 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

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
			<p>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.</p> <p>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.</p> <p>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</p>	<p>boundary, no follow up action is proposed.</p> <p>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.</p> <p>However, BKREJV are responsible to monitor the condition alongside the boundary of construction site regularly.</p>	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
			<p>myriad of biodiversity dependent on this vital water source.</p> <p>...</p> <p>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."</p>		
COM-2023-09-04	Construction site near the junction of Sha Tau Kok Road and Ma Sik Road (ND/2019/04)	4 th September 2023, 7 th September 2023	<p>EPD received a complaint with ref: N07/RN/00021148-23 on 4 Sep 2023.</p> <p>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”</p> <p>Supplementary detail received by EPD with the same ref on 7 Sep 2023.</p> <p>Complaint detail: “在 7/9/2023 下午,該地盤再次排出大量黃泥水”</p>	<p>The investigation result as follows:</p> <p>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.</p> <p>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.</p>	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
COM-2023-09-13	Open water channel within the project site of KTN NDA phase 1 (ND/2019/01)	4 th September 2023, 21 st September 2023	<p>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.</p> <p>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.</p>	<p>The investigation result as follows:</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>It was observed that muddy water overflowed from the outlet of RC3 to the concerned discharge point.</p> <p>It was noted that various nearby interfacing contractors discharged their construction wastewater to the same concerned discharge point via RC3.</p> <p>Traces of muddy site runoff and yellowish sediments</p>	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				<p>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.</p> <p>Follow-up actions:</p> <ul style="list-style-type: none"> - 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 	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				<p>lower elevated of the site to public areas</p> <ul style="list-style-type: none"> - 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)	8 th November 2023	<p>EPD received a complaint with ref: N07/RN/00026110-23 on 2 Nov 2023.</p> <p>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 未能了解更多詳情。”</p>	<p>The investigation result as follows:</p> <p>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.</p> <p>Based on the above findings, it is concluded that the complaint was not related to the works.</p> <p>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.</p> <p>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</p>	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)	8 th 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)	5 th 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)	5 th 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。”	<p>The investigation result as follows:</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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</p>	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				<p>enter the danger zone at any circumstance.</p> <p>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.</p>	
COM-2024-02-02	Construction site near Junction of Ma Sik Road and Sha Tau Kok Road (ND/2019/04)	2 nd February 2024	<p>EPD received a complaint with ref: N07/RN/3492-24 on 2 Feb 2024.</p> <p>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。”</p>	<p>The investigation result as follows:</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>	Closed

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				It is believed that the noise in the video was not generated from the PME 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)	4 th 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，不斷有咁咁咁之聲響，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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				<p>and the necessity of the warning signal to the workers on site.</p> <p>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.</p>	
COM-2024-03-19	Construction site near Ma Sik Road (ND/2019/04)	19 th March 2024	<p>EPD received a complaint with ref: N07/RN/7600-24 on 17 Mar 2024.</p> <p>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。”</p>	<p>The investigation result as follows:</p> <p>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.</p> <p>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.</p>	Closed

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COM-2024-04-09	Construction site near Ma Sik Road (ND/2019/04)	9 th April 2024	<p>EPD received a complaint with ref: N07/RN/9715-24 on 8 April 2024. Complaint detail:</p> <p>“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.</p> <p>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.</p> <p>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,</p>	<p>The investigation result as follows:</p> <p>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.</p>	Closed

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			<p>including my balcony. This not only creates a nuisance but also poses potential health risks, particularly for individuals with respiratory conditions.</p> <p>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.</p> <p>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.</p> <p>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</p>		

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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)	17 th April 2024	<p>EPD received a complaint with ref: N07/RN/10275-24 on 14 April 2024. Complaint detail:</p> <p>“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!”</p>	<p>The investigation result as follows:</p> <p>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.</p> <p>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.</p> <p>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.</p>	Closed
COM-2024-04-26	Construction site near Ma Sik Road (ND/2019/04)	26 th April 2024	<p>EPD received a complaint with ref: N07/RN/11478-24 on 25 April 2024. Complaint detail:</p> <p>“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</p>	<p>The investigation result as follows:</p> <p>The Contractor claimed that various measures, bunds and paved slope, have been applied to prevent silty runoff and wastewater is treated before discharging.</p> <p>According to the photo provided by the complainant, the wastewater treatment facility was functioning well</p>	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”.	<p>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.</p> <p>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.</p> <p>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.</p>	
COM-2024-05-06	Construction site near Tong Hang Village (ND/2019/05)	6 th May 2024	<p>EPD received a complaint with ref: N07/RN/12113-24 on 2 May 2024. Complaint detail:</p> <p>“保華 CEDD 地盤污水流出 near 塘坑村, North District, NT”</p>	<p>The investigation result as follows:</p> <p>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.</p> <p>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</p>	Closed

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				<p>to lowest at the site access connecting to the Tong Hang Village Road.</p> <p>After on-site communication with the complainant on 02 May 2024, the following additional measures were provided:</p> <ol style="list-style-type: none"> 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. <p>The complainant was invited to review the abovementioned extra measures on 06 May 2024 on-site.</p>	
COM-2024-06-04	Construction site near On Kui Street (ND/2019/04)	4 th June 2024	<p>EPD received a complaint with ref: N07/RN/13039-24 on 12 May 2024. Complaint detail:</p> <p>“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。”</p>	<p>The investigation result as follows:</p> <p>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</p>	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				<p>complainants were for the workers only.</p> <p>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.</p> <p>The Contractor will keep maintaining the condition of the access that to avoid causing the spread of dust and surface runoff.</p>	
COM-2024-07-04	Construction site near Tong Hang Village (ND/2019/05)	4 th July 2024	<p>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)</p> <p>Complaint detail:</p> <p>“關於粉嶺塘坑村地盤「寶華地盤」本月6月15日落雨，雨水浸到我個邊個貨櫃，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。”</p>	<p>The investigation result as follows:</p> <p>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.</p> <p>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.</p> <p>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</p>	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				<p>installed at the bottom of its western wall.</p> <p>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.</p> <p>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.</p> <p>However, topographical survey could not be conducted to verify the observation unless agreed by the owner of the premises.</p> <p>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:</p> <ol style="list-style-type: none"> 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)	28 th 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)	30 th 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
				<p>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.</p> <p>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.</p>	
COM-2024-09-13	Discharge points from ND/2019/01 and other associated NDA development projects.	13 th September 2024	<p>EPD received a complaint with ref: N07/RN/24157-24 on 9 September 2024. Complaint detail:</p> <p>“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.”</p>	<p>The investigation result as follows:</p> <p>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.</p> <p>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.</p> <p>BKREJV carried out post typhoon checking on the wastewater treatment facilities in the afternoon of 6 September 2024.</p>	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				<p>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.</p> <p>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.</p>	
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)	16 th September 2024	<p>EPD received a complaint with ref: N07/RN/24807-24 on 16 September 2024. Complaint detail:</p> <p>“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”</p> <p>Photos and Videos provided.</p>	<p>The investigation result as follows:</p> <p>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.</p> <p>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.</p> <p>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</p>	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)	2 nd October 2024	<p>EPD received a complaint with ref: N07/RN/25963-24 on 27 September 2024. Complaint detail:</p> <p>“工地邊界流出泥水”</p> <p>Attached with 4 photos that shows mud stain on pubic road surface.</p>	<p>The investigation result as follows:</p> <p>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.</p> <p>The concerned site areas have been hard paved and water hose was provided.</p> <p>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.</p> <p>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.</p>	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)	7 th October 2024	<p>EPD received a complaint with ref: N07/RN/26613-24 on 4 October 2024. Complaint detail:</p> <p>“.....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</p> <p>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.....”</p>	<p>The investigation result as follows:</p> <p>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 in good condition. No mud/soil track was observed during the inspection. Provision of functional wheel washing facility on site.</p> <p>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.</p> <p>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.</p> <p>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.</p>	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)	30 th 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 地盤經常晝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)	14 th 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
				<p>were observed.</p> <p>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.</p> <p>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.</p>	
COM-2024-11-14W	Construction site at Ma Tso Lung Road (ND/2019/01)	14 th November 2024	<p>"EPD received a complaint with ref: N07/RN/31435-24 and N07/RN/31440-24 on 13 November 2024. Complaint detail:</p> <p>“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。”</p>	<p>The investigation result as follows:</p> <p>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.</p> <p>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.</p>	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				<p>However, muddy stains were observed downstream near lamp post VD7679.</p> <p>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.</p> <p>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.</p>	
COM-2024-11-14A	Construction dust nearby Lamppost VA6214, VA6215, Ho Sheung Heung Pai Fung Road (ND/2019/02)	14 th November 2024	<p>"Complaint received by EPD on 11 Nov 2024 with EPD ref:N07/RN/31190-24. Detail as follow:</p> <p>“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”</p> <p>”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</p>	<p>Investigation was conducted by contractor and reply as follow:</p> <p>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.</p> <p>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</p>	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."	

**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	Before construction			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. 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 5 June 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 Approval - 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 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	Before construction			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 construction	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 landscape 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	Before construction			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 5 June 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 Approval - 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

*tentative submission date will be supplemented once available

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	Before construction			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 the 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
*tentative submission date will be supplemented once available

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	Before construction			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	Before construction			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	Egretty 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	Submitted 11 September 2020	EPD Approved 8 October 2020
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 <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	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 Approval - 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		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 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	Before construction			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	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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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	