


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 March 2024**

(Version 1.2)

Certified By



Dr. Priscilla Choy
(Environmental Team Leader)

REMARKS:

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

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

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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/L0226

Monthly Environmental Monitoring and Audit Report No. 53 (March 2024)

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17 April 2024

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BY EMAIL

Dear Sir,

We refer to email of 16 April 2024 attaching the Monthly Environmental Monitoring and Audit Report No. 53 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
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EXECUTIVE SUMMARY**Introduction**

1. This is the 53rd 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 March 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	4, 8, 14, 20, 26 and 28 Mar 24	4, 8, 14, 20, 26 and 28 Mar 24	N/A	N/A	N/A
	FLN-DMS3			N/A	N/A	4, 8, 14, 20, 26 and 28 Mar 24		
	FLN-DMS5			1, 7, 13, 19, 25 and 27 Mar 24	1, 7, 13, 19, 25 and 27 Mar 24	N/A		
	KTN-DMS4(B)			1, 7, 13, 19, 25 and 27 Mar 24	1, 7, 13, 19, 25 and 27 Mar 24	N/A		
24-hr Monitoring (TSP)	FLN-DMS1	N/A	N/A	1, 7, 13, 19, 25 and 27 Mar 24	1, 7, 13, 19, 25 and 27 Mar 24	N/A	N/A	N/A
	FLN-DMS3			N/A	N/A	1, 7, 13, 19, 25 and 27 Mar 24		
	FLN-DMS5A			1, 7, 13, 19, 25 and 27 Mar 24	1, 7, 13, 19, 25 and 27 Mar 24	N/A		
	KTN-DMS4(B)			1, 7, 13, 19, 25 and 27 Mar 24	1, 7, 13, 19, 25 and 27 Mar 24	N/A		
Noise Monitoring	CP-FLN-NMS1	N/A			8, 14, 20 and 26 Mar 24		N/A	
	CP-FLN-NMS2	N/A				8, 14, 20 and 26 Mar 24		N/A
	CP-KTN-NMS2	7, 13, 19 and 25 Mar 24	N/A	N/A				
	CP-KTN-NMS3							
	CP-KTN-NMS5							
	CP-KTN-NMS6	N/A	7, 13, 19 and 25 Mar 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, 7, 12, 14, 21, 22, 25 and 28 Mar 2024	7, 14, 21 and 28 Mar 2024	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	5 and 11 Mar 24	5 and 11 Mar 24	5 Mar 24	5 Mar 24	5 Mar 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		1, 7, 13, 19, 25 and 28 Mar 24	N/A	1, 7, 13, 19, 25 and 28 Mar 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 and 27 Mar 24	N/A	1, 4, 6, 8, 11, 13, 15, 18, 20, 22, 25 and 27 Mar 24	N/A	N/A	N/A
Landfill Gas Monitoring		26 Mar 24	N/A	N/A	N/A	N/A	N/A	N/A
Built Heritage Monitoring		N/A	N/A	N/A	N/A	N/A	N/A	N/A
Environmental Site Inspection		5, 13, 19 and 26 Mar 24	6, 13, 20 and 27 Mar 24	1, 8, 15, 19 and 25 Mar 24	7, 12, 21 and 28 Mar 24	4, 14, 18 and 27 Mar 24	NIL	1, 8, 15, 22 and 28 Mar 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	0	0	0	0	0
	Turbidity	0	1	1	0	3	3
	SS	0	1	1	0	3	3
	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	5	4	9	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. No Limit Level exceedance was recorded.

Water Quality

7. All additional water quality monitoring was conducted as scheduled in the reporting month. Four (4) Limit Level for Suspended Solid, and Four (4) Limit Level for turbidity of impact water quality monitoring were recorded. No construction of channel for alternation of natural streams was carried out in the reporting month. Therefore, no water quality monitoring was conducted according to the Updated EM&A Manual and Baseline Water Quality Monitoring Report (KTN & FLN NDA). Relevant details are given in Section 5.

Land Contamination

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

Landfill Gas Monitoring

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

Built Heritage Monitoring

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

Ecological Monitoring

11. All ecological monitoring was conducted as scheduled in the reporting month.
12. Five (5) action level exceedance and four (4) limit level exceedance for non-aquatic fauna were recorded at T1, T3, T4 & T6. The exceedance were considered non-project related. Poor weather condition of during monitoring period for T6 on 11th March with 11.7 mm total rainfall might have affected butterfly and odonate occurrence at T6. Whilst limited rainfall throughout the reporting month might also have influenced availability of microhabitat for odonates and herpetofauna, and thus number of species of odonates recorded. In addition, necessary Ecological mitigation measure were provided by all nearby project-related sites. No evidence to suggest that the exceedance was related to project activities.
13. The ecological monitoring result in the Reporting Month is shown in **Appendix L**.

Complaint Log

14. Two (2) environmental complaints were received in the reporting month. The complaint regarding construction noise is for ND/2019/04, which was referred by EPD on 4 Mar 2024 for the complaint case received by EPD on 3 Mar 2024. The other complaint case associated with construction dust is also for ND/2019/04, which was referred by EPD on 19 Mar 2024 for the complaint case received by EPD on 17 Mar 2024.

Notification of Summons and Successful Prosecutions

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

Reporting Changes

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

Future Key Issues

17. 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 (April to June 2024)
ND/2019/01	<ul style="list-style-type: none"> (a) Drainage works, watermain works, sheet piles, site formation and slope works in Portion 1a (b) Site formation and construction of noise barrier in Portion 1c (c) Sheet Piling, Site formation work, construction of subway, road works and drainage works in Portion 2 (d) Site formation, site clearance, excavation, slope work, drainage and watermain works in Portion 3 (e) Watermain works, excavation, backfilling, road works and pipe jacking in Portion 5 (f) Drainage works, backfilling, road works and watermains works in Portion 6a (g) Operation of HAC treatment facility in Portion 6b (h) Sheet piling, excavation, stockpile of soil, drainage works and watermain works in Portion 7 (i) RC construction of fresh water reservoir, backfilling works, drainage works, watermain works and ELS installation for receiving pit in Portion 8a (j) Trenchless work, excavation, watermain works and ground treatment 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, sewage, watermain and roadworks in Portion 11b (m) Site clearance, removal of existing structure, site formation and stockpile of soil in Portion 13
ND/2019/02	<ul style="list-style-type: none"> (a) Pipe Jacking (b) Backfilling (c) Concreting (d) Bedding & Pipe Laying (e) ELS (f) Sheet Pile Installation (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 - Tree felling and tree pruning work
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>North Team Works</u> <ul style="list-style-type: none"> - Backfilling, drainage work & reinstatement of grasscrete at C4 02, C4 01ab, C3 03ab & C3 03ab. - Haul Road to bridge deck In On Lok Garden. - Construction of remaining abutment wall near portal B2 01. - Construction of FW 53. - Water works & drainage works at Jockey Club Rd.

Contract No.	Site Activities (April to June 2024)
	<ul style="list-style-type: none"> - Slope toe drainage works of FS05 at Jockey Club Rd. - Road works of northbound of Jockey Club Rd & ducting works at central median and across Jockey Club Rd. - Construction of new box culvert extension & retaining wall & slope works at Tong Hang Tsuen. - Drainage works DN 900 at On Kui Street near B1. (b) <u>Viaduct Works</u> <ul style="list-style-type: none"> - Segments erection by LG at Bridges nos. C1 & C2. - SOP construction at D2-01. - Trimming of existing lift tower no. NF83A. - Construction of Bridge B1. - Precast parapet skin fabrication. - Parapet construction at Bridge nos. C4, D1 and E1. - Segment fabrication for Bridge no. B2. - Carrier drain installation at Bridge nos. C3, C4, D1 and E1. - Deck void lighting installation at Bridge nos. C3, C4, D1 and E1. (c) <u>South Team Works</u> <ul style="list-style-type: none"> - E4-02 pier & pier head construction - TWSRW – Road work and UUs laying (Section P800 CH 450 to 600). - TWSRW – Hydroseeding at FS04, strengthening work of rock surface at FS04 - TWSRW – Construction of FS04 slope toe u-channel - TWSRW – Gas (IPA400 and HP600) diversion work - TWSRW – Sewerage Ø600mm pipe laying to FS04 - TWSRW – Construction of D2-04M pile cap - HKY FB (East) – Installation of floor tiles and railing - HKY FB (West) – Construction of LT2 pile cap - TWRSE – Implementation of TTA376 (BBI TTA stage 3 diversion) - TWRSE – Construction of BBI Toilet to Roof Top - E4-02 and E4-03M – Construction of pile cap - NB109 – Bay 13~20 ELS works - NB70 – Bay 1~5 ELS works - NB69 – Bay 2~8 Footing - NB110 – Bay 6~7 Footing and Wall - NB29 U-trough – Bay 10~13 footing construction (d) <u>Form Traveler</u> <ul style="list-style-type: none"> - E3-01 – FT dismantling - E3-02 – construction 1st pair - E2-03 – construction 2st to 4th pair - D2-02 – FT dismantling - D2-03 – construction 8th pair to 9th pair
ND/2019/06	The construction phase has been completed and handed over to AFCD since 4 April 2022.

Contract No.	Site Activities (April to June 2024)
ND/2019/07	(a) Road works at Portion 1, 4 and 5 (b) C&D waste disposal at Portion 1, 2, 4 and 5 (c) Construction of box culvert at Portion 2 (d) Filling works at Portion 2 and 4 (e) Construction of site haul road at Portion 4 (f) Drainage works, Sewerage works at Portion 2, 3, 4 (g) Construction of noise barrier at Portion 4 and 5 (h) Waterworks at Portion 1, 2 and 4

1 INTRODUCTION

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

Purpose of the report

1.2 This is the 53rd EM&A Report which summarises the key findings of the EM&A programme in March 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 Officer	Mr. K. M. Lui	5113 8223	
	Environmental Supervisor	Mr. Attlee Chau	6386 9018	

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 (March 2024)
ND/2019/01	<ul style="list-style-type: none"> (a) Drainage works, watermain works and sheet piles in Portion 1a (b) Site formation, erection of hoarding and construction of noise barrier in Portion 1c (c) Sheet piling, site clearance, site formation, construction of subway, drainage works and road works in Portion 2 (d) Watermain works and site formation in Portion 3 (e) Site formation, excavation and preparation works for pipe jacking in Portion 5 (f) Backfilling, drainage works, watermain works and district cooling system in Portion 6a (g) Operation of HAC treatment facility in Portion 6b (h) Excavation and drainage works in Portion 7 (i) RC construction of fresh water reservoir, drainage works, watermain works, backfilling works and construction of receiving pit in Portion 8a (j) Trenchless work and watermain construction in Portion 8b (k) Sheet piling, excavation, drainage, watermain works and district cooling system in Portion 9b (l) Excavation and drainage works in Portion 11b (m) Site clearance, removal of existing structures, site formation and erection of hoarding in Portion 13
ND/2019/02	<ul style="list-style-type: none"> (a) Pipe Jacking (b) Backfilling (c) Concreting (d) Bedding and pipe laying (e) ELS (f) Sheet Pile Installation (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 - Tree felling and tree pruning work - Construction of Dry Weather Flow Interception (DWFI)
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"> - E3-04b – Pier in progress - E4-01 – Pier completed & pier head in progress. - E4-02 – Pipe pile wall completed. Excavation in progress. - E4-03M – Pipe pile wall in progress. - D2-04M – Removal of existing abandoned UU completed. ELS in progress.

Contract No.	Site Activities (March 2024)
	<ul style="list-style-type: none"> - Works in TWSRE <ul style="list-style-type: none"> A. BBI cover walkway (Steelwork) – 1st stage completed. B. Extension of HKY Footbridge – Temporarily opened to public. C. BBI Toilet – Basement Wall is completed. Backfilling and drainage work in progress. D. Connecting Road L201 to D300 – Pavement to base coarse is completed. E. D400 Road Works CH285 to 380 – Backfilled to formation. Subbase in progress. F. FW02 – Footing and wall are completed. Backfilling completed. Pavement work in progress. - Works in TWSRW <ul style="list-style-type: none"> A. FS04 –Rock slope strengthening works in progress. Slope toe U-Channel in progress. B. Sewerage work – Laying 600Dia pipes from FW06 toward FS04 is in progress. C. Gas Pipe laying (IPA400/HP600 – pipe laying in progress. Target completion in June 2024. D. 1st Stage fresh watermain diversion completed on 2 February 2024 by WSD. E. Lift LT02 – ELS in progress. - Noise barrier NB109 <ul style="list-style-type: none"> A. Bay 9,10, 11 – Top wall completed. B. Bay 12 – Backfilling in progress C. Bay 13 – ELS in progress. D. Bay 16-20 – Site clearance and setting temporary lighting in progress. - Noise barrier NB70 <ul style="list-style-type: none"> A. Bay 1-5 – Site clearance and setting temporary lighting in progress. - Noise barrier NB69 <ul style="list-style-type: none"> A. Bay 5c, 6a – Top wall completed. Backfilling in progress. B. Bay 2, 3, 4 – ELS is in progress. C. Bay 6c, 7 – Footing completed. Bottom wall in progress. D. Bay 8 – ELS in progress. - Noise barrier NB110 <ul style="list-style-type: none"> A. Bay 3, 4, 5, 8, 9 – Footing and wall completed. B. Bay 6,7 – Removal of existing footings completed. Bay 6 footing completed. Bay 7 footing in progress. C. Bay 10 Predrilling completed - Noise barrier NB 29 <ul style="list-style-type: none"> A. Bay 12, 13 – Footing (near Fanling Hwy) completed. B. Bay 8 to 13 – Sheetpiling in progress <p>(b) <u>North Team</u></p> <ul style="list-style-type: none"> - Rebar fixing for 2 nd pour of C1 02 portal beam construction in progress - Side formwork erection for C1 01 MJ portal construction in progress . - Falsework erection for B2 01 cross head construction in progress. - Falsework erection for B2 02 & B2 03 cross head construction completed. Formwork erection in progress. - Construction of remaining abutment wall near B1 02 portal beam was in progress. - Backfilling at C3 03ab, C3 04ab, C4 02 & C4 01b were in progress - Backfilling and sheet extraction at C2 01 completed.

Contract No.	Site Activities (March 2024)
	<ul style="list-style-type: none"> - On Kui Street Construction of manhole & associated DN 900 drain pipe were in progress - JCR: Construction of new central median & ducting works for traffic signal & road light were in progress. - JCR: Construction of pipe support for DN 150 exposed pipe in progress. - JCR & Tong Hang Village J/O improvement works: Construction of box culvert & extension head wall was in progress. - Temporary haul road in On Lok Garden was in progress. <p>(c) <u>Bridges and Structures</u></p> <ul style="list-style-type: none"> - Type A segment fabrication completed in Huizhou casting yard. Type C precast segment commenced at DongGuan Casting yard. - Total 5 78 segments were delivered to site, and total 5 46 segments erected. - C2 0 2 T span completed. - Segment erection at C2 01 by LG in progress. - Rebar fixing at Bridge B1 in progress. - Trial panel for type C segment is completed. - Total 210 pcs of parapet skin fabricated; 93 pcs of parapet skin arrived to site , 72 pcs of parapet skin erected on Bridge E1. - Construction of D2 01 SOP in progress. - Installation of drainage system in the deck void commenced at Bridge D1&E1. - Dismantle of E&M for the lifting tower NF38A completed. <p>(d) <u>Form Traveler</u></p> <ul style="list-style-type: none"> - T Span at D2 02 completed. - Form traveler launching for 08th pair segment at D2 03 in progress. - Form traveler launching for 06th pair segment at E2 01 in progress. - Form traveler rebar fixing for 2nd pair segment at E2 03 in progress. - FT02 dismantling at E3 01 in progress - Completed concreting E2 E2 01 E2 02 S05, E2 E2 01 E1 04 01 S05 - Completed concreting D2 D2 02 D2 03 S11, D2 D2 02 D2 01 S 11 - Completed concreting D2 D2 03 D2 04 S07, D2 D2 03 D2 02 S07. - Completed concreting E2 E2 03 E2 02 S01 & E2 E203 E3 01 S01.
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, 4 and 5 (c) Drainage works, Sewerage works at Portion 2, 3, 4 and 5 (d) Construction of box culvert at Portion 2 (e) Filling works at Portion 2 and 4 (f) Construction of site haul road at Portion 4 (g) Waterworks at Portion 1, 2 and 4

Construction Programme

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

Status of Environmental Licences, Notifications and Permits

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

Table 2.4 Status of Environmental Licences, Notifications and Permits

Contract No.	Permit / Licence No.	Valid Period		Status
		From	To	
Environmental Permit (EP)				
ND/2019/01	EP-466/2013/A	21/11/2013	N/A	Valid
	EP-467/2013/A	27/01/2017	N/A	Valid
	EP-468/2013/A	27/01/2017	N/A	Valid
	EP-470/2013/A	21/11/2013	N/A	Valid
ND/2019/02	EP-469/2013	21/11/2013	N/A	Valid
ND/2019/03	EP-468/2013/A	27/01/2017	N/A	Valid
	EP-473/2013/A	27/01/2017	N/A	Valid
ND/2019/04	EP/473/2013/A	27/01/2017	N/A	Valid
	EP/546/2017	16/11/2017	N/A	Valid
ND/2019/05	EP-473/2013/A	27/01/2017	N/A	Valid
ND/2019/06	EP-475/2013/A	13/01/2017	N/A	Valid
Construction Noise Permit (CNP)				
ND/2019/01	GW-RN0997-23	01/10/2023	31/03/2024	Cancelled and superseded by GW-RN0238-24 in the reporting month
	GW-RN1328-23	25/12/2023	24/03/2024	Expired in reporting month
	GW-RN0053-24	21/01/2024	20/04/2024	Valid
	GW-RN0073-24	29/01/2024	28/04/2024	Valid
	GW-RN1146-23	19/11/2023	18/05/2024	Valid
	GW-RN0187-24	29/02/2024	28/05/2024	Valid
	GW-RN0031-24	13/01/2024	12/04/2024	Valid
	GW-RN0238-24	15/03/2024	14/06/2024	Valid
	GW-RN0069-24	01/03/2024	31/08/2024	Valid
	GW-RN0070-24	01/03/2024	31/08/2024	Valid
	GW-RN0198-24	01/03/2024	30/06/2024	Valid
	GW-RN0290-24	25/03/2024	24/06/2024	Valid
ND/2019/02	GW-RN1400-23	01/01/2024	31/03/2024	Expired in reporting month
	GW-RN1163-23	08/11/2023	07/04/2024	Valid
	GW-RN0130-23	10/02/2024	09/06/2024	Valid
ND/2019/04	GW-RN1408-23	29/12/2023	28/03/2024	Expired in reporting month
	GW-RN0051-24	26/01/2024	25/03/2024	Expired in reporting month
	GW-RN0020-24	08/01/2024	07/04/2024	Valid
	GW-RN0095-24	05/02/2024	04/05/2024	Valid
	GW-RN0246-24	13/03/2024	12/06/2024	Valid
	GW-RN0351-24	28/03/2024	25/05/2024	Valid
ND/2019/05	GW-RN1366-23	01/01/2024	31/03/2024	Expired in reporting month
	GW-RN1369-23	27/12/2023	26/03/2024	Expired in reporting month
	GW-RN1415-23	01/01/2024	31/03/2024	Expired in reporting month
	GW-RN0014-24	12/01/2024	11/04/2024	Valid
	GW-RN0097-24	01/02/2024	31/05/2024	Valid
	GW-RN0147-24	29/02/2024	28/04/2024	Valid
	GW-RN0301-24	27/03/2024	26/06/2024	Valid

Contract No.	Permit / Licence No.	Valid Period		Status
		From	To	
	GW-RN0132-24	01/03/2024	30/06/2024	Valid
	GW-RN0165-24	01/03/2024	31/08/2024	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	16/11/2022	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

Contract No.	Permit / Licence No.	Valid Period		Status
		From	To	
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	22/12/2020	31/12/2025	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	7
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	111.3	51.6 – 156.3	303	500
FLN-DMS3	92.4	61.0 – 123.3	301	500
FLN-DMS5	73.9	33.1 – 154.1	279	500
KTN-DMS4(B)	77.4	44.0 – 161.9	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	77.4	51.9 – 122.4	150	260
FLN-DMS3	72.2	41.1 – 113.5	165	260
FLN-DMS5A	87.8	51.6 – 136.0	153	260
KTN-DMS4(B)	68.5	38.0 – 125.8	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	4
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]	67.3 – 68.9	69.9	75
ND/2019/04				
ND/2019/05	CP-FLN-NMS2 ^[2]	56.9 – 68.7	59.6	
ND/2019/01	CP-KTN-NMS2 ^[3]	53.5 – 62.0	58.6	
	CP-KTN-NMS3 ^[4]	49.7 – 61.3	51.6	
ND/2019/01	CP-KTN-NMS5	55.1 – 62.0	57.2	
ND/2019/02	CP-KTN-NMS6	56.5 – 61.2	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 exceedances 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	2

Monitoring Parameters and Frequency

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

Table 5.4 Additional Water Quality Monitoring Parameters and Frequency

Monitoring Station(s)		Parameters, unit	Depth	Frequency
River Beas	SYR-CS1 SYR-IS1	<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	0	0	0	0	0	0
NTR-IS1	Action Level	0	0	0	N/A	0	0
	Limit Level	0	3	3		0	6
SHST-IS2	Action Level	0	0	0		0	0
	Limit Level	0	0	0		0	0
MWR-IS3	Action Level	0	0	0		0	0
	Limit Level	0	1	1		2	0
Total	Action Level	0	0	0	0	0	0
	Limit Level	0	4	4	0	2	6

* Exceedances record date: 22/03/2024, 25/03/2024 and 27/03/2024

Four (4) Limit Level for Suspended Solid (SS), and Four (4) Limit Level for turbidity of impact water quality monitoring were recorded. Exceedances were recorded on 22, 25 and 27 March 2024. After investigation, the exceedance at NTR-IS1 (Three Limit Level for SS and Three Limit Level for turbidity) was considered partially due to Contract No. ND/2019/04 due to the following reasons:

1. According to the information provided by the Contractor, excavation works and breaking up of concrete blocks were being carried out at Bridge F-03, next to the monitoring station NTR-IS1. Muddy water discharge from the damaged silt curtain deployed by the Contractor was observed by ET, which is considered as the main source of water pollution to the stream.
2. Although mitigation measures such as double layer silt curtain was deployed to avoid leakage of silty water during removal of soil, however, changes of water level destroyed the set up leads to the leakage.

The exceedance at MWR-IS3 (One Limit Level of SS and One Limit Level of turbidity) was considered caused by other external factors rather than the contract works due to the following reasons:

1. No pollution discharged was observed from land-based site area;
2. No soil exposed works at the nearby construction site next to the Ma Wat River.
3. Influx of muddy water from upstream was found. It is considered related to the outfall non-related to the Project.

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)
01/03/2024	KTN-DMS4(A)	6.13	9.36	11.7
07/03/2024		5.67		
13/03/2024		5.87		
19/03/2024		6.07		
25/03/2024		5.96		
28/03/2024		5.67		

6.15 All ambient arsenic monitoring was conducted as scheduled in the reporting month. During the reporting month, 1,540.3m³ of arsenic soil transported to soil treatment plant and 1,263.2m³ 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 6** 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 Castle Peak Road Diversion under EP-466/2013/A, Kwu Tung North New Development Area Road D1 to D5 under EP-468/2013/A, and 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. This section presents the results of built heritage monitoring performed by the Contractor according to the proposed monitoring plan in baseline condition survey report. **Appendix B** shows the Limit Levels for the monitoring works.

Monitoring Location

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

Table 8.1 Location of Construction Vibration Monitoring

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

Monitoring Parameters and Frequency

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

Table 8.2 Vibration Monitoring Plan

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

Remark:

[1] Baseline condition survey was conducted for built heritage features at G202, G203, G303, G308, HKT03 and KT57 under EP-468/2013/A, also HFL08, FL05, FL07, FL08, FL10, FL11, FL17, FL19, FL31 and FL33 under ND/2019/04, and HFL05, FL02, FL04, FL24, FL27 and FL36 under ND/2019/05 for EP-473/2013/A. As G202, G203, G303, G308, HKT03, KT57, HFL05, HFL08, FL02, FL04, FL05, FL07, FL08, FL10, FL11, FL17, FL19, FL24, FL27, FL31, FL33 and FL36 were not within the assessment area of the related construction work, no construction vibration monitoring was conducted for the built heritage in the reporting month.

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

Monitoring Equipment

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

Results and Observations

- 8.7 In the reporting month, no construction vibration monitoring was carried out by the Contractor for the built heritage features when no pile driving operation was conducted within 50m of the construction work. 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.

Table 8.3 Vibration Limits 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	

Remarks:

* peak particle velocity

as cultural heritages are sensitive receivers, vibration monitoring should be classified as vibration-sensitive

- 8.9 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, 7, 12, 14, 21, 22, 25 and 28 March 2024

Date of night-time monitoring: 22 and 25 March 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, 76 species of birds were recorded during the bird surveys within assessment area. Among the recorded birds, there were 26 species of waterbirds. The detailed list of waterbirds and all recorded birds are shown in **Appendices 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.
- 9.14 Construction 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* 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* and *Egretta garzetta* were 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	44	26	18	13
Mean abundance of <i>Ardeola bacchus</i> using Ng Tung River, Sheung Yue River and Shek Sheung River	18.25	12	8	6
Mean Abundance of Bird recorded in LVNP	699.25	564	395	282
Mean Abundance of <i>Ardeola bacchus</i> recorded in LVNP	13.25	12	9	6
Environmental disturbance and damage from activities in LVNP	-	-	Activity likely to cause unacceptable environmental disturbance or damage noted in LVNP.	Activity causing unacceptable environmental disturbance or damage noted in LVNP.
*Note Large Waterbirds includes: <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 bases.

Date of monitoring surveys of ecological sensitive receivers: 5, 11 March 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 4 mammal species were recorded from transects. One (1) species of conservation importance was recorded, namely *Pipistrellus abramus*.
- 9.40 Domestic dogs, *Canis lupus familiaris*, were commonly found at transect T1, T3, T4 and T6, where associated with human settlements.
- 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, *Pipistrellus abramus* were recorded in flight at nighttime at transect T1, T3, T4 and T6.

Herpetofauna (Amphibians and Reptiles)

- 9.45 Among the transects, a total of 8 herpetofauna species were observed. Species including toads and geckos were recorded near wetland habitats and watercourse. Transects T5 had the highest species diversity among all transects.

Insects (Butterfly and Dragonfly)

- 9.46 During the insect survey, a total of 34 butterfly species were recorded from transects. Four (4) species of butterfly recorded was of particular conservation interest, namely *Aeromachus jhora*, *Jamides celeno*, *Papilio xuthus* and *Pieris rapae*. Transect T5 had recorded the highest butterfly diversity among all transects.
- 9.47 6 species of odonata were recorded in the reporting month. Transect T5 had recorded the highest odonatan diversity among all transect.
- 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	1	1	NA	NA
T3	1	1	NA	NA
T4	1	0	NA	NA
T5	0	1	NA	NA
T6	2	0	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	4	4	3	2
T3	3	2	NA	1
T4	1	3	2	1
T5	4	4	3	2
T6	1	2	NA	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	13	9	6	5
T3	15	4	3	2
T4	13	6	4	3
T5	27	5	4	3
T6	1	5	4	3

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	1	5	4	3
T3	0	4	3	2
T4	1	2	NA	1
T5	5	5	4	3
T6	0	3	2	1

9.53 Five (5) Action Level exceedances and four (4) Limit Level exceedance was recorded in non-aquatic fauna monitoring during the reporting month.

9.54 For the monitoring conducted on 5 March 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 Five (5) action level exceedance and four (4) limit level exceedance for non-aquatic fauna were recorded at T1, T3, T4 and T6. The exceedances were considered non-project related.
- 9.56 Large proportion of vegetative habitat along T3 (including some shrubs, wood and tall grass) were observed either removed, tarmacked, and concreted as haul road by construction works outside of project, first reported in the Monthly Monitoring Report in December 2021. The altered condition at transect might have been less favourable to inhabitation of odonates, as some species of these taxonomic groups prefers wet vegetated habitats that provides shelters, as opposed to open and dry habitat such as a tarmacked haul road. Previous odonate monitoring results see a drop in odonate records between summer of 2021 and 2022, during the period which construction activities outside of project were observed.
- 9.57 Poor weather conditions during the monitoring at T6 on 11th March with 11.7 mm total rainfall might have affected butterfly and odonate occurrence at T6.
- 9.58 During the reporting month, total rainfall was 21.6 mm, 53.7 mm lower than normal according to HKO. The limited rainfall of the reporting month may affect the availability of microhabitat for odonates and herpetofauna, such as puddles and ponds. No evidence to suggest that the exceedance were related to project activities, as supported by environmental monitoring data. Future results of these transects will be continuously reviewed.

Details of the Influencing Factors

Major Activities

- 9.59 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 in Long Valley. Construction works were observed beside Sheung Yue River.
- 9.60 The anthropogenic activities affected only a small area of the habitat in Long Valley during monitoring and would only pose minor disturbances to the birds..
- 9.61 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.
- 9.62 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

- 9.63 According to the observation during survey, temperature and the rain flow records in the reporting month (Reference: <http://www.weather.gov.hk/wxinfo/pastwx/metob202403.htm>), weather conditions might pose influence towards the monitoring results.
- 9.64 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, 13, 19 and 26 Mar 24	6, 13, 20 and 27 Mar 24	1, 8, 15, 19 and 25 Mar 24	7, 12, 21 and 28 Mar 24	4, 14, 18 and 27 Mar 24	N/A	1, 8, 15, 22 and 28 Mar 24
Joint Site Audit with representative of the <i>Supervisor's</i> Representative, the Contractor and IEC	13 Mar 24	20 Mar 24	19 Mar 24	12 Mar 24	14 Mar 24	N/A	15 Mar 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>Water Quality</i>	29/02/2024	The water quality mitigation measures at Pak Shek Au should be further enhanced to direct the potential surface runoff arising from the earth works to silt removal facilities.	Improvement/Rectification was observed during follow-up audit session on 5 Mar 2024.
	19/03/2024	Temporary drainage system at Pak Shek Au should be maintained regularly to assure the water pump operates properly.	Improvement/Rectification was observed during follow-up audit session on 26 Mar 2024.
<i>Air Quality</i>	13/03/2024	Dust suppression measures should be enhanced at Portion 1C. Dusty haul road was observed. Water-spraying truck in operation was observed too. Might consider water-spraying more frequently.	Improvement/Rectification was observed during follow-up audit session on 19 Mar 2024.
	26/03/2024	Dust suppression measures should be enhanced for the stockpiles of dusty materials at P13.	Follow-up action is needed to be reported in the following month.
<i>Waste / Chemical Management</i>	13/03/2024	Construction waste accumulated on site at Pak Shek Au should be avoided.	Improvement/Rectification was observed during follow-up audit session on 19 Mar 2024.
Contract No.: ND/2019/02			
<i>Water Quality</i>	28/02/2024	Muddy debris in the U-channel near the nullah at Portion 11 should be cleared.	Improvement/Rectification was observed during follow-up audit session on 6 Mar 2024.
	28/02/2024	Water mitigation measures should be enhanced for the works area at Portion 5 and Portion 11 to prevent muddy runoff from discharging into nearby water bodies (Shek Sheung River, Sheung Yue River and nullah).	Item remarked as 240306-R02. Follow-up action is needed to be review.
	06/03/2024	Water mitigation measures should be enhanced for the works area at Portion to prevent muddy runoff from discharging into nearby water bodies (Shek Sheung River and Sheung Yue River).	Improvement/Rectification was observed during follow-up audit session on 13 Mar 2024.
	13/03/2024	Ensure that vehicles leaving the Dill's Corner works area are properly cleaned.	Item remarked as 240320-R04. Follow-up action is needed to be review.
	20/03/2024		Item remarked as 240327-R04. Follow-up action is needed to be review.
	27/03/2024		Follow-up action is needed to be reported in the following month.
	06/03/2024	Review the drainage system to ensure the existing water pipe was connected to wetsep and discharged into a valid location.	Item remarked as 240313-R02. Follow-up action is needed to be review.

Parameters	Date	Observations and Recommendations	Follow-up
	13/03/2024		Item remarked as 240320-R02. Follow-up action is needed to be review.
	20/03/2024		Item remarked as 240327-R02. Follow-up action is needed to be review.
	27/03/2024		Follow-up action is needed to be reported in the following month.
	06/03/2024	Provide tarpaulin for exposed slope.	Improvement/Rectification was observed during follow-up audit session on 13 Mar 2024.
	28/02/2024	Vehicles exits should be paved to ensure vehicles remain clean when leaving the site. (Portion 4, 5 & 11)	Item remarked as 240306-R03. Follow-up action is needed to be review.
	06/03/2024		Item remarked as 240313-R03. Follow-up action is needed to be review.
	13/03/2024		Item remarked as 240320-R03. Follow-up action is needed to be review.
	20/03/2024	Vehicles exits should be paved to ensure vehicles remain clean when leaving the site. (Portion 4 & 5)	Item remarked as 240327-R03. Follow-up action is needed to be review.
	27/03/2024	Vehicles exits should be paved to ensure vehicles remain clean when leaving the site. (Portion 5)	Follow-up action is needed to be reported in the following month.
	28/02/2024	Provide maintenance for the existing water mitigation measures.	Item remarked as 240306-R04. Follow-up action is needed to be review.
	06/03/2024		Improvement/Rectification was observed during follow-up audit session on 13 Mar 2024.
	13/03/2024	Review the capacity of wastewater treatment facilities in Dill's Corner works area to ensure wastewater were properly treated and settled prior to discharge.	Improvement/Rectification was observed during follow-up audit session on 20 Mar 2024.
	27/03/2024	Avoid muddy water discharge to Sheung Yue River directly outside the Visitor Center.	Follow-up action is needed to be reported in the following month.
	27/03/2024	Review the capacity of the silt tank at Portion 5.	Follow-up action is needed to be reported in the following month.
	Air Quality	28/02/2024	Provide impervious sheeting for the dusty stockpile.
27/03/2024		Enhance the mitigation measures of the stockpile of soil in Dill's Corner.	Follow-up action is needed to be reported in the following month.

Parameters	Date	Observations and Recommendations	Follow-up
<i>Landscape and Visual</i>	28/02/2024	The removed green hoarding along Sheung Yue River due to the construction works should be replaced and maintained properly as soon as possible.	Item remarked as 240306-R01. Follow-up action is needed to be review.
	06/03/2024		Item remarked as 240313-R01. Follow-up action is needed to be review.
	13/03/2024		Item remarked as 240320-R01. Follow-up action is needed to be review.
	20/03/2024		Item remarked as 240327-R01. Follow-up action is needed to be review.
	27/03/2024		Follow-up action is needed to be reported in the following month.
<i>Waste / Chemical Management</i>	28/02/2024	Provide drip tray for the chemical/fuel containers. (Portion 11)	Improvement/Rectification was observed during follow-up audit session on 6 Mar 2024.
	28/02/2024	Keep site clean and tidy. (Portion 11)	Improvement/Rectification was observed during follow-up audit session on 6 Mar 2024.
	06/03/2024	Provide drip tray for chemical/fuel containers.	Improvement/Rectification was observed during follow-up audit session on 13 Mar 2024.
	20/03/2024	Provide drip tray for chemical storage at the Dill's Corner works area.	Improvement/Rectification was observed during follow-up audit session on 27 Mar 2024.
<i>Ecology</i>	28/02/2024	The removed green hoarding along Sheung Yue River due to the construction works should be replaced and maintained properly as soon as possible.	Item remarked as 240306-R01. Follow-up action is needed to be review.
	06/03/2024		Item remarked as 240313-R01. Follow-up action is needed to be review.
	13/03/2024		Item remarked as 240320-R01. Follow-up action is needed to be review.
	20/03/2024		Item remarked as 240327-R01. Follow-up action is needed to be review.
	27/03/2024		Follow-up action is needed to be reported in the following month.
<i>Permits/Licences</i>	20/03/2024	Provide updated relevant Environmental Permit for displaying onsite.	Improvement/Rectification was observed during follow-up audit session on 27 Mar 2024.
Contract No.: ND/2019/03			
<i>Air Quality</i>	20/02/2024	Provide valid NRMM label for the excavator.	Improvement/Rectification was observed during follow-up audit session on 1 Mar 2024.

Parameters	Date	Observations and Recommendations	Follow-up
Waste/Chemical Management	01/03/2024	General refuse in the drip tray should be removed to ensure the drip trays functionality.	Item remarked as 240308-R01. Follow-up action is needed to be review.
	08/03/2024		Item remarked as 240315-R01. Follow-up action is needed to be review.
	15/03/2024		Improvement/Rectification was observed during follow-up audit session on 19 Mar 2024.
Contract No.: ND/2019/04			
Air Quality	29/02/2024	Faded NRMM label on the generator at Portion K should be replaced.	Improvement/Rectification was observed during follow-up audit session on 7 Mar 2024.
Ecology	28/03/2024	Broken silt curtain should be maintained or replaced immediately to prevent muddy water discharge.	Follow-up action is needed to be reported in the following month.
Water Quality	29/02/2024	Enhance the water mitigation measure to avoid surface runoff at Bridge G.	Item remarked as 240307-R01. Follow-up action is needed to be review.
	07/03/2024		Item remarked as 240312-R01. Follow-up action is needed to be review.
	12/03/2024		Improvement/Rectification was observed during follow-up audit session on 21 Mar 2024.
	07/03/2024	Provide maintenance for the silt curtain.	Improvement/Rectification was observed during follow-up audit session on 12 Mar 2024.
	07/03/2024	Review the drainage system to ensure that no untreated water flow directly into the discharge point.	Item remarked as 240312-R02. Follow-up action is needed to be review.
	12/03/2024		Item remarked as 240321-R01. Follow-up action is needed to be review.
	21/03/2024		Item remarked as 240328-R03. Follow-up action is needed to be review.
	28/03/2024		Follow-up action is needed to be reported in the following month.
Waste / Chemical Management	28/03/2024	Accumulation of general waste should be avoided.	Follow-up action is needed to be reported in the following month.
Permits / Licences	28/03/2024	A copy of Environmental Permit should be displayed at the site exit conspicuously.	Follow-up action is needed to be reported in the following month.

Parameters	Date	Observations and Recommendations	Follow-up
Contract No.: ND/2019/05			
<i>Water Quality</i>	04/03/2024	Water mitigation measures should be enhanced to prevent surface runoff discharge at E2-02.	Item remarked as 240314-F01. Follow-up action is needed to be review.
	14/03/2024		Item remarked as 240318-F01. Follow-up action is needed to be review.
	18/03/2024		Improvement/Rectification was observed during follow-up audit session on 27 Mar 2024.
	27/03/2024	Water mitigation measures should be enhanced at Portion VI cycling track works area to ensure wastewater from wheel-washing would be collected and treated properly.	Follow-up action is needed to be reported in the following month.
Contract No.: ND/2019/06			
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Contract No.: ND/2019/07			
<i>Air Quality</i>	23/02/2024	Provide valid NRMM label for the excavator.	Improvement/Rectification was observed during follow-up audit session on 1 Mar 2024.
<i>Waste/Chemical Management</i>	01/03/2024	Drip tray should be provided for chemical/fuel containers near Ma Sik Road.	Improvement/Rectification was observed during follow-up audit session on 8 Mar 2024.

Table 10.3 Summary Table for the Outstanding item(s) in the reporting month

Contract No.	Outstanding deficiencies since last reporting month (Feb 2024)	Deficiencies recorded in the reporting month (Mar 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 (Apr 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	2	/	1	1	/	/	/	/	4	4	1	/	/	/	/	/	/	/	1
ND/2019/02	8	1	/	17	2	/	4	4	1	29	11	1	/	5	/	/	1	1	/	8
ND/2019/03	1	/	/	/	3	/	/	/	/	3	2	/	/	/	/	/	/	/	/	/
ND/2019/04	2	/	/	7	1	/	/	1	1	10	4	/	/	1	1	/	/	1	1	4
ND/2019/05	/	/	/	4	/	/	/	/	/	4	1	/	/	1	/	/	/	/	/	1
ND/2019/06*	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
ND/2019/07	1	/	/	/	1	/	/	/	/	1	2	/	/	/	/	/	/	/	/	/

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 10.4**.

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="448 815 820 846">Hard paved exposed slope surface</p>	 <p data-bbox="1011 815 1321 846">Hydroseeding for slope area</p>
ND/2019/02	 <p data-bbox="480 1240 820 1272">Hard paved exposed haul road</p>	 <p data-bbox="1011 1240 1385 1272">Hard paved exposed slope surface</p>
ND/2019/03	 <p data-bbox="480 1666 820 1697">Hard paved exposed haul road</p>	 <p data-bbox="979 1666 1401 1697">Watering the main haul road regularly.</p>
ND/2019/04	 <p data-bbox="464 2092 852 2123">Hard paved exposed slope surface</p>	 <p data-bbox="948 2069 1442 2123">Deployment of silt curtain around works area in Ng Tung River</p>

<p>ND/2019/05</p>	 <p>Covering dusty stockpile</p>	 <p>Provision of sand bags around works area</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 10.5**.

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 *Vanellus cinereus* was recorded



Wet agricultural land

11 ENVIRONMENTAL NON-CONFORMANCE

Summary of Exceedances

- 11.1 Four (4) Limit Level for Suspended Solid (SS) and Four (4) Limit Level for turbidity of impact water quality monitoring were recorded. After investigation, Three (3) Limit Level for SS and Three (3) Limit Level for turbidity was considered partially due to Contract No. ND/2019/04. The other exceedance was considered due to the other external factors rather than the contract works.
- 11.2 No Action/Limit Level exceedance for air quality, ambient arsenic 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. Five (5) action level exceedance and four (4) limit level exceedance for non-aquatic fauna were recorded at T1, T3, T4 & T6. The exceedance were considered non-project related.
- 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 Two (2) environmental complaint 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 (April to June 2024)	Location/ Working Period	Potential Environmental Impact	Recommended Mitigation Measures
ND/2019/01	(a) Site clearance / tree felling	Portion 3, 13	- Construction Dust impact	Air - Watering on exposed earth and haul road. - Cover the stockpiles or dusty materials. - Deploy water bowsers to water the haul road. - Deploy mist-cannon on site - Provide shelter with top and 3-sides for cement production activities. - Cover the Arsenic-containing soil. - Store the bulk cement in enclosed silo tank for soil treatment. - Close the mechanical cover of the vehicles used for transporting dusty materials. - Establish vehicle wheel washing facilities at vehicle exit points. - Speed control of site vehicles. Noise - Regular inspect of construction plants in good condition.
	(b) Stockpile of soil	Portion 7, 13	- Noise Impact (Construction Phase)	
	(c) Excavation / Backfilling	Portion 3, 5, 6a, 7, 8a, 8b, 9b, 11b	- Water Quality Impact (Construction Phase)	
	(d) Slope works	Portion 1a, 3	- Waste Management (Construction Waste)	
	(e) Construction of noise barrier	Portion 1c		
	(f) Site Formation	Portion 1a, 1c, 2, 3, 11b, 13		
	(g) Removal of existing structure	Portion 13		
	(h) Construction of subway	Portion 2		
	(i) Operation of HAC treatment facility	Portion 6b		
	(j) Drainage works / watermains works	Portion 1a, 2, 3, 5, 6a, 7, 8a, 8b, 9b, 11b		

	(k) Road Construction	Portion 2, 5, 6a, 9b, 11b	<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.
	(l) Trenchless	Portion 5, 8b	
	(m) Construction of reservoir	Portions 8a	
	(n) Ground Treatment	Portions 8b	
	(o) Erection of hoarding	Portion 1c	
	(p) Sheet piling / ELS & pipe pile	Portion 1a, 2, 7, 8a, 9b	
	(q) District Cooling System	Portion 8a	

	(r) Sewage works	Portion 11b		<ul style="list-style-type: none"> - Provide drip trays for chemical containers. - Chemical spill kit available on site. - Chemical waste cabinet available on site. - 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 1, 2, 3, 4, 5	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 5, 7, 10	Air, Noise, Waste	
	(c) Concreting	Portions 3, 7, 8, 9 & 10	Air, Noise, Water, Waste, Ecology	
	(d) Bedding & Pipe Laying	Portion 8, 11	Air, Noise, Water, Waste, Ecology	
	(e) ELS	Portions 1, 3, 4	Air, Noise, Water, Waste, Ecology	
	(f) Sheet Pile Removal	NIL	NIL	
	(g) Cut and Fill of Slope	Portion 3, 4	Air, Noise, Water, Waste	
	(h) Sheet pile installation	Portion 5, 11	Air, Noise, Water, Waste	

ND/2019/03	(a) Excavation & ELS	Portion 1, 1A, 2, 3, 4, 4A, 4B, 5, 5A	- 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. - Plants should have maintenance to prevent dark smoke and oil leakage. Idle plant should be turned off. - Drip tray should be provided for all chemical and stationary plants. - No construction works shall be carried out in restricted hours (7:00 pm to 7:00 am) unless CNP is granted. - Waste should be sorted and disposed according to Waste Management Plan. - No direct discharge of wastewater into storm water drains is allowed. Wastewater must be desilted before discharging according to water discharge license.
	(b) Site Clearance	Sections 7, 8 and 9	- Waste - Air pollution - Noise pollution	
	(c) Tree Felling	Sections 6, 7, 8 and 9	- Waste - Air pollution - Noise pollution	
ND/2019/04	(a) Rebar Fixing, formwork erection and scaffolding erection	Bridge F, A1, A2, A3, Portion J, K, H	- Air, Noise, Waste	<ul style="list-style-type: none"> - Dusty works should be sprayed with water or stockpile should be covered by tarpaulin properly. - Plants should have maintenance to prevent dark smoke and oil leakage. Idle plant should be turned off. - Drip tray should be provided for all chemical and stationary plants. - No construction works shall be carried out in restricted hours (7:00 pm to 7:00 am) unless CNP is granted. - Waste should be sorted and disposed according to Waste Management Plan. - No direct discharge of wastewater into storm water drains is allowed. Wastewater
	(b) Pile cap	Bridge A1, A3 and Portion J, K	- Air, Noise, Water, Waste	
	(c) Grouting	Bridge F, A1, A2, A3 and Portion J, K	- Air, Noise, Water, Waste	
	(d) Bore pile	Bridge G	- Air, Noise, Water, Waste	
	(e) Excavation & ELS	Portion J, H, K, X, S, F03, Bridge A1, A2 and A3	- Air, Noise, Waste	
	(f) Road works	Portion B, J, H, U and VY	- Air, Noise, Waste	

	(g) Pre-drilling	NIL	- NIL	must be desilted before discharging according to water discharge license.
	(h) Tree pruning	NIL	- NIL	
	(i) UU diversion	Portion J and K	- Air, Noise, Waste	
ND/2019/05	(a) ELS & Pile Cap Construction	NB69 Bay 2~8 NB110 Bay 6~7	<ul style="list-style-type: none"> - Construction Dust Impact - Noise Impact - Water Quality Impact (Construction Phase) - Waste Management (Construction Waste) - Landscape and Visual - Cultural Heritage 	<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, 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.
	(b) Cap Construction	E3-04a, E3-04b, E4-01 and E4-02		
	(c) Cross head construction	B2-01, B2-02 and B2-03		
	(d) Pier / Pier head Construction	D2-01 and E305M		
	(e) Fabrication for segment	C2, C1, D1, D2, E1, E4		
	(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.		
	(g) Segment Erection by Launching Girder & Crane	Bridges C3, C2		

	(h) SOP construction (precast & in-situ cast in type)	D2-01	<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. - 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
	(i) Road construction	TWSRW, TWSRE	
	(j) Road works	Jockey Club Rd, TWSRW	
	(k) Base slab construction	NB109 – bay 11~12	
	(l) Tree Works	All works areas	

				<p>construction. In particular OVTs will be 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.
	(b) C&D waste disposal	Portion 1, 2, 4, 5		
	(c) Construction of box culvert	Portions 2		
	(d) Filling works	Portions 1, 2, 4		
	(e) Construction of site haul road	Portions 4		
	(f) Drainage Works	Portion 2, 3, 4		
	(g) Sewerage works	Portion 3, 4		
	(h) Construction of Noise Barrier	Portion 5		
	(i) Waterworks	Portion 1, 2, 4		

				<ul style="list-style-type: none"> - Manholes to be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system. - All vehicles and plant to be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. - Segregate and store different types of waste in different containers, skip or stockpiles to enhance reuse or recycling of materials and their proper disposal. - Sort out demolition debris and excavated materials from demolition works to recover reusable/recyclable portions. - 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
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				<p>another licensed facility, in accordance 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 March 2024 in accordance with the Updated EM&A Manual.
- 13.2 Four (4) Limit Level for SS and Four (4) Limit Level for turbidity of impact water quality monitoring were recorded. Three (3) Limit Level for SS and Three (3) Limit Level for turbidity were considered partially project related.
- 13.3 One (1) Action Level for Construction Noise Monitoring was recorded in the reporting month. No Action/Limit Level exceedance for air quality, ambient arsenic and landfill gas monitoring was recorded in the reporting month.
- 13.4 Five (5) non-project related action level exceedance and four (4) non-project related limit level exceedance for non-aquatic fauna were recorded.

Contract No. ND/2019/01

- 13.5 Environmental site inspections were conducted on 5, 13, 19 and 26 Mar 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 Mar 24 by ET in the reporting month.

Contract No. ND/2019/03

- 13.7 Environmental site inspections were conducted on 1, 8, 15, 19 and 25 Mar 24 by ET in the reporting month.

Contract No. ND/2019/04

- 13.8 Environmental site inspections were conducted on 7, 12, 21 and 28 Mar 24 by ET in the reporting month.

Contract No. ND/2019/05

- 13.9 Environmental site inspections were conducted on 4, 14, 18 and 27 Mar 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 1, 8, 15, 22 and 28 Mar 24 by ET in the reporting month.

- 13.12 Two (2) environmental complaint 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.

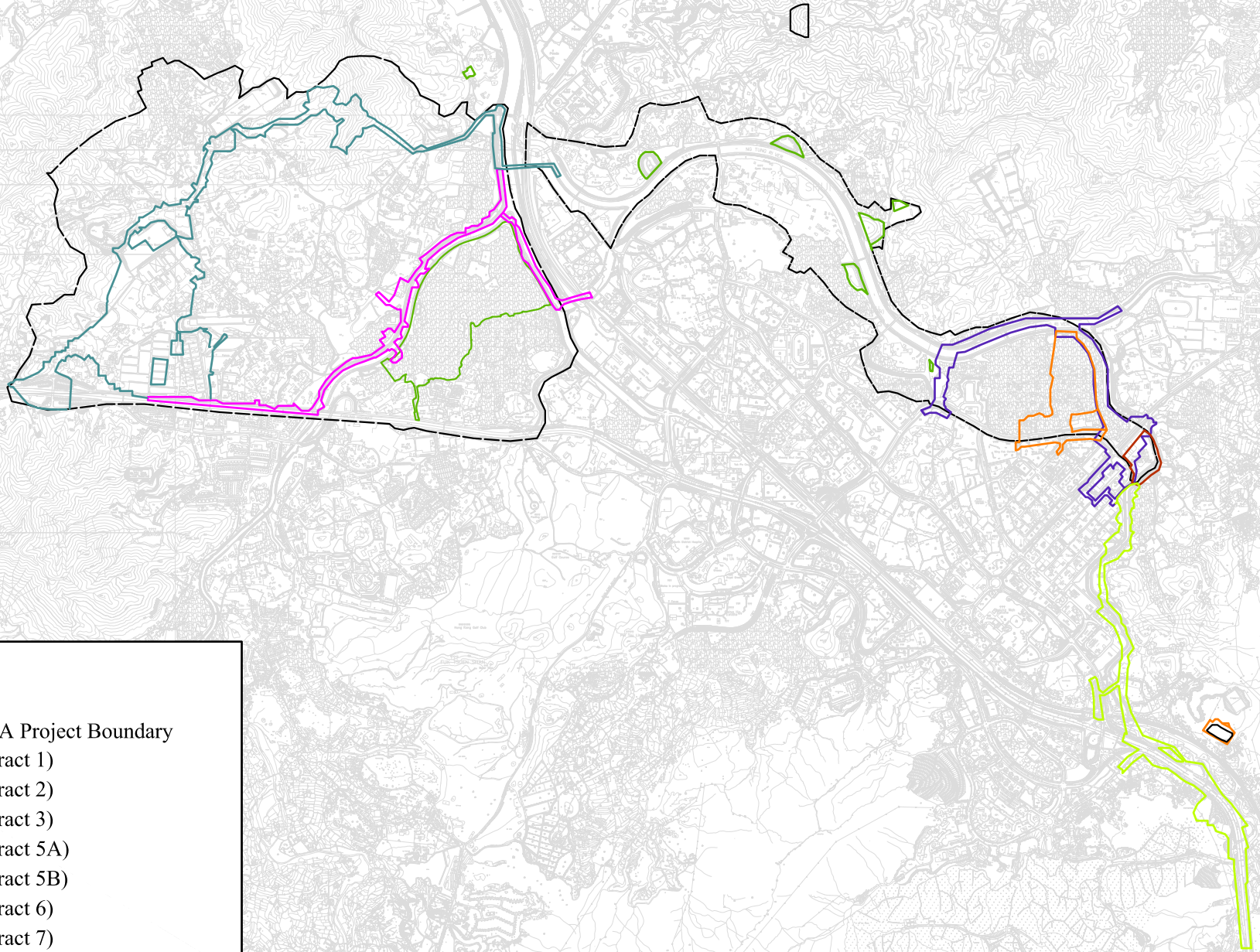
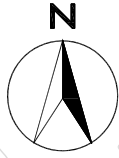
Ecology

- 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)

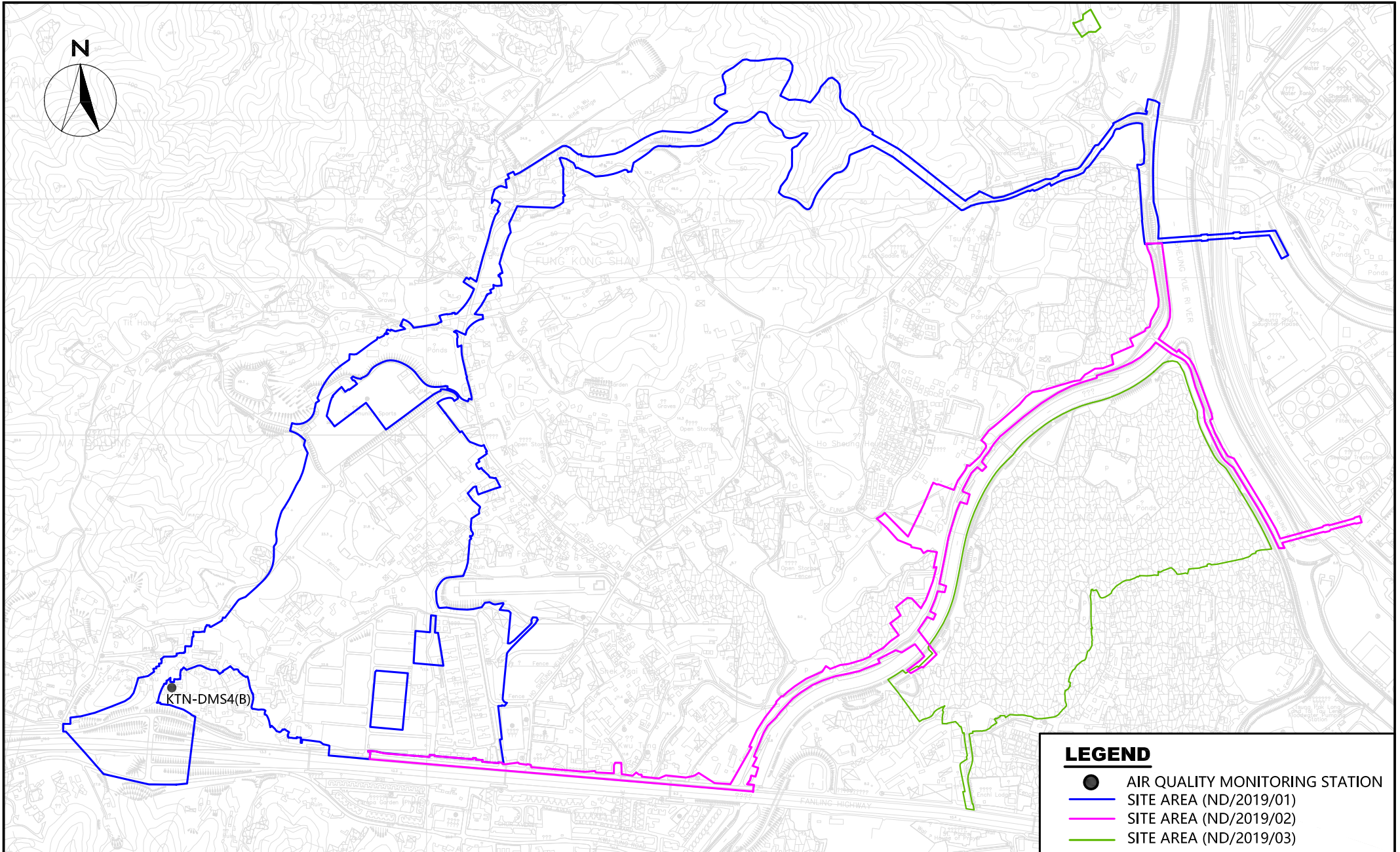


LEGEND

- 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)

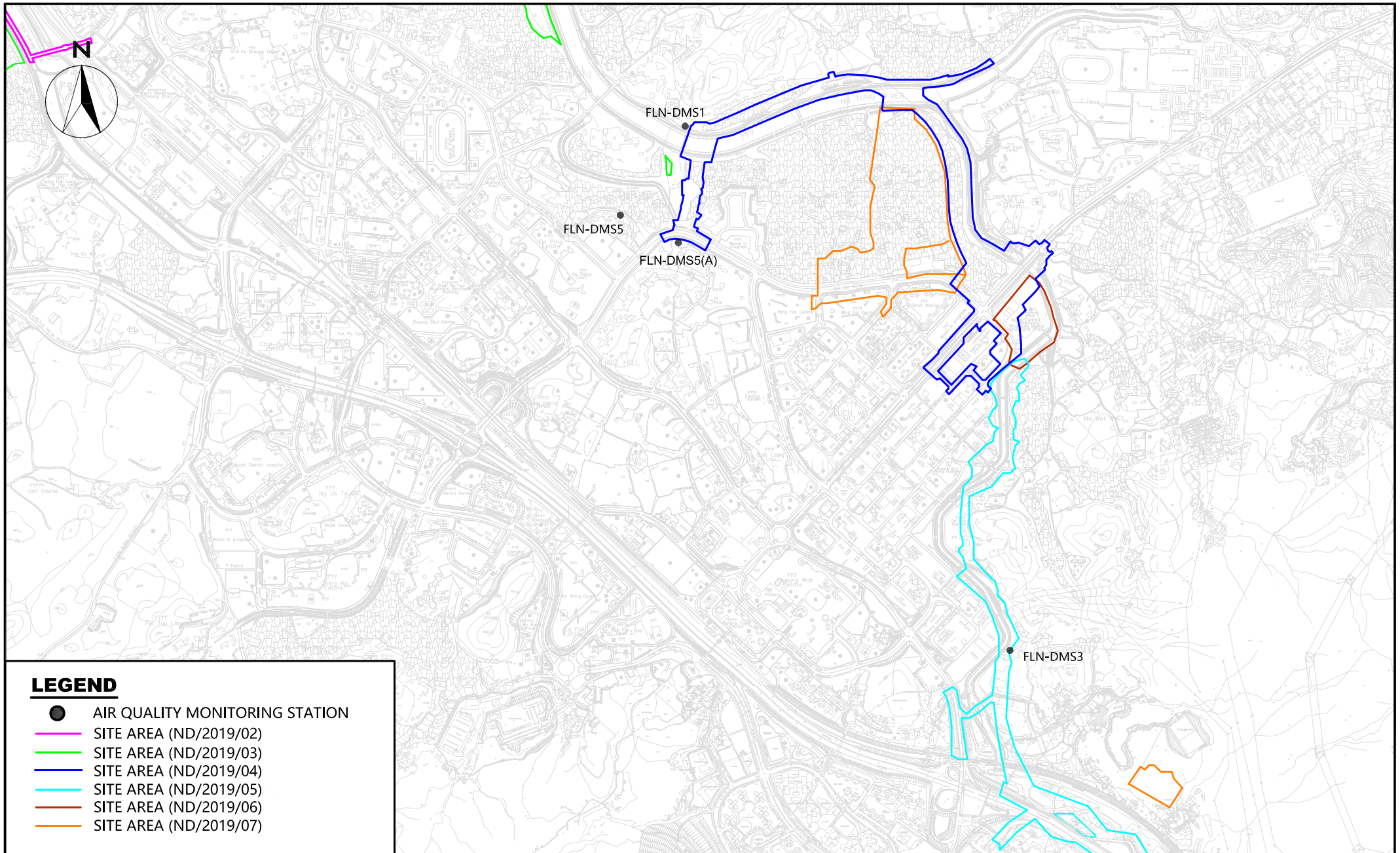
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FIGURE(S)

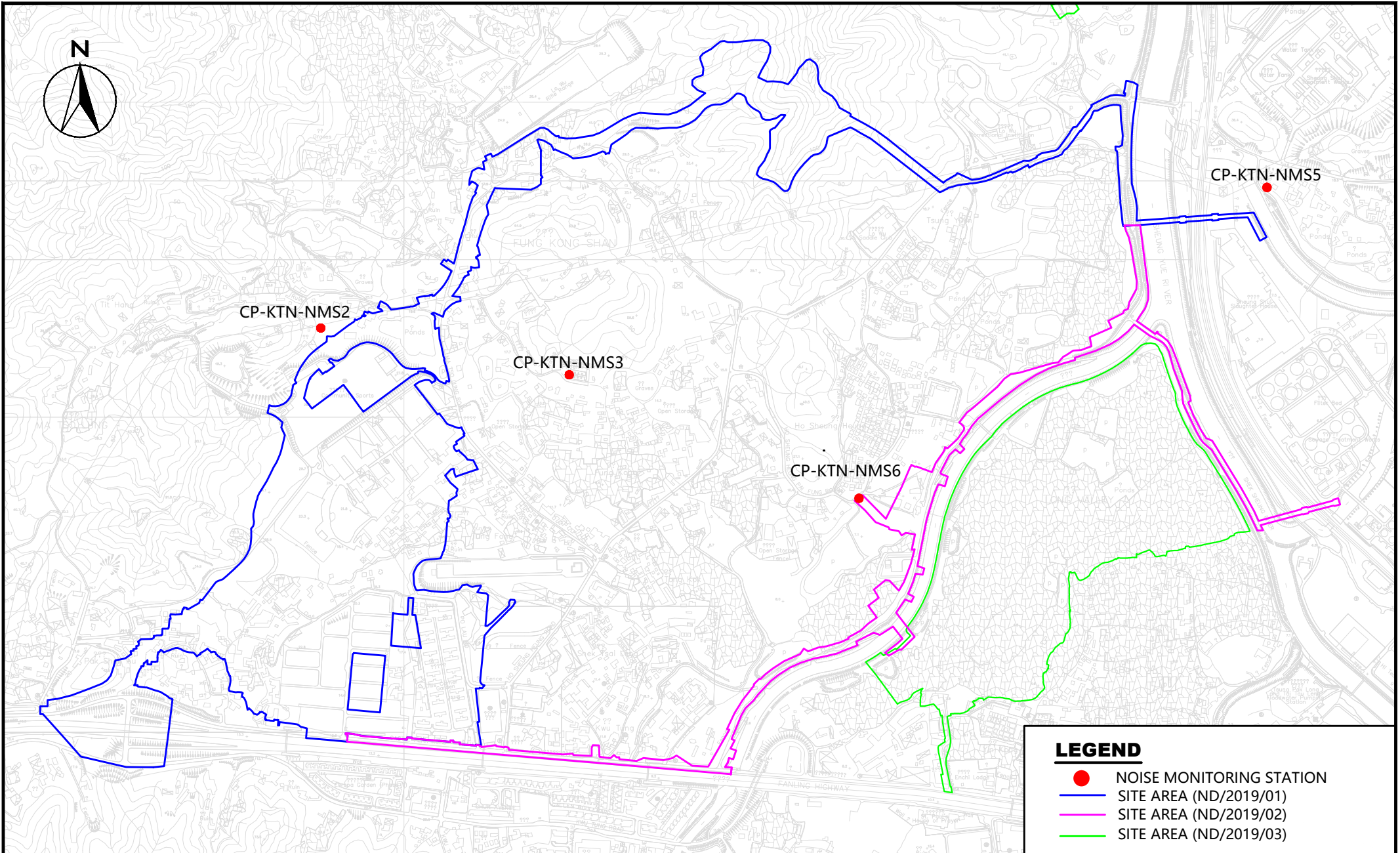


LEGEND	
●	AIR QUALITY MONITORING STATION
— (Blue)	SITE AREA (ND/2019/01)
— (Pink)	SITE AREA (ND/2019/02)
— (Green)	SITE AREA (ND/2019/03)

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

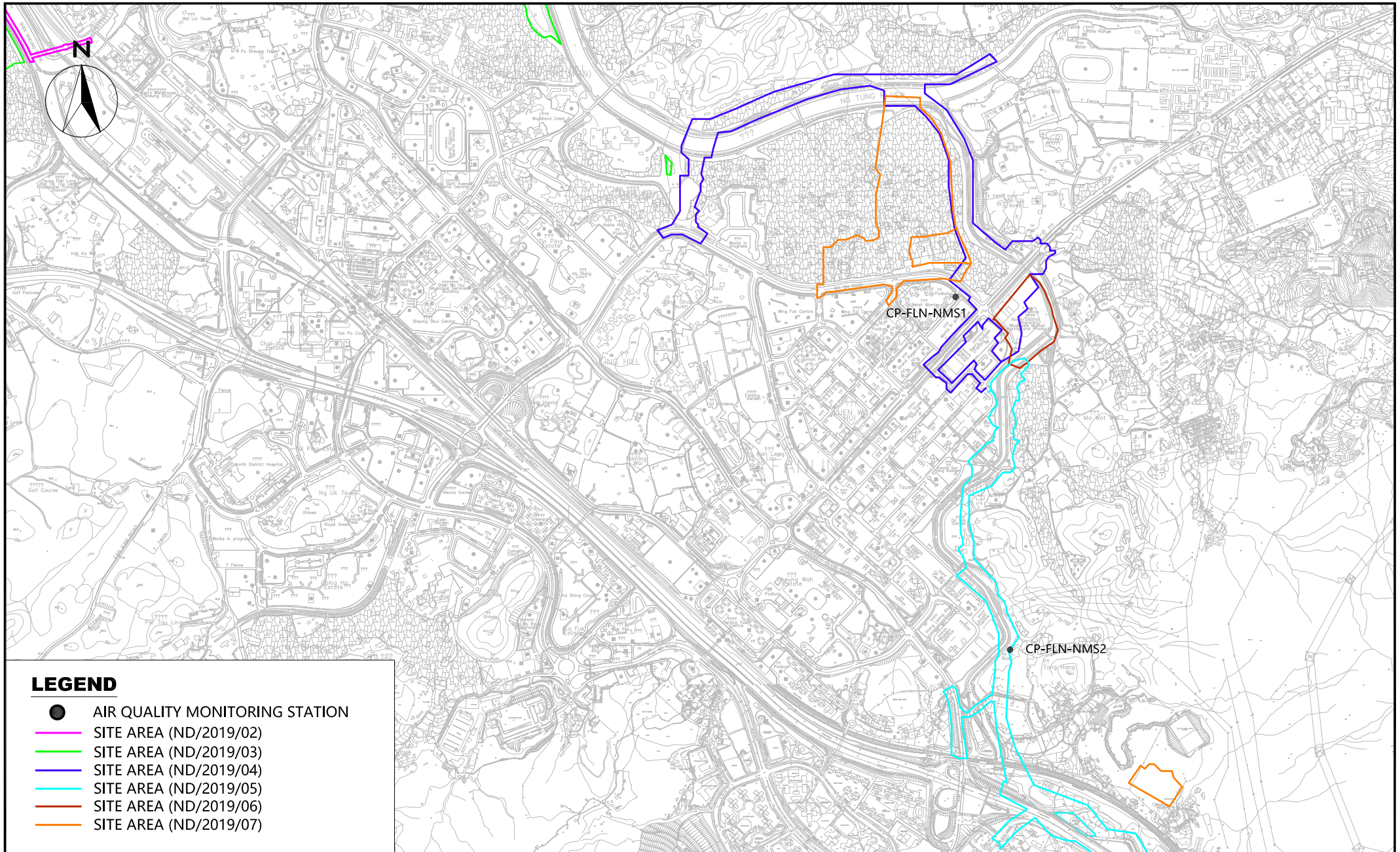


SCALE	A4 @ 1:40000	DATE	DEC 2021	
CHECK	IT	DRAWN	ML	
PROJECT No.	WMA20002	FIGURE NO.	2	REV —



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

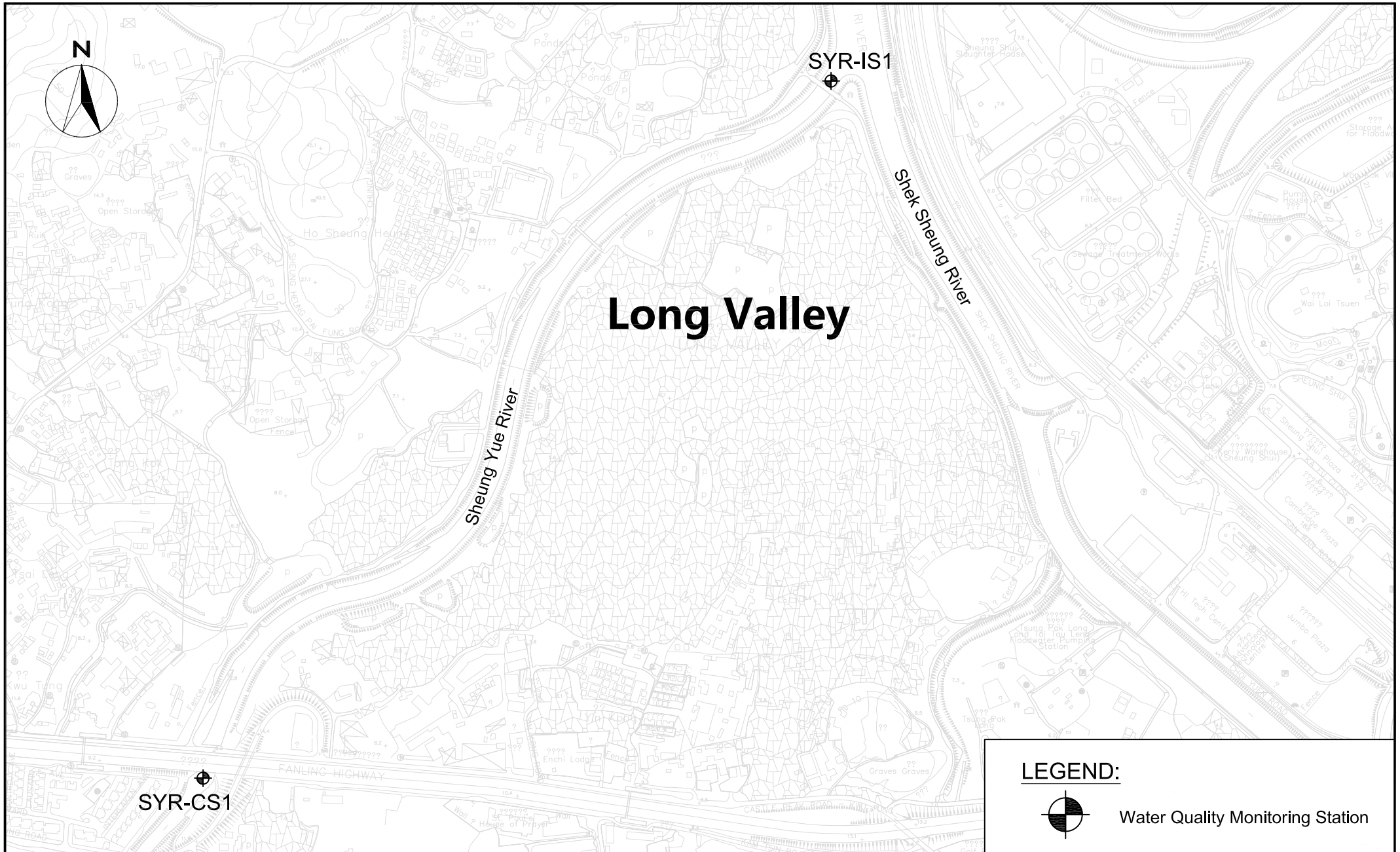
SCALE	A4 @ 1:30000	DATE	OCT 2020
CHECK	KL	DRAWN	NL
PROJECT No.	WMA20002	FIGURE NO.	3
		REV	—



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

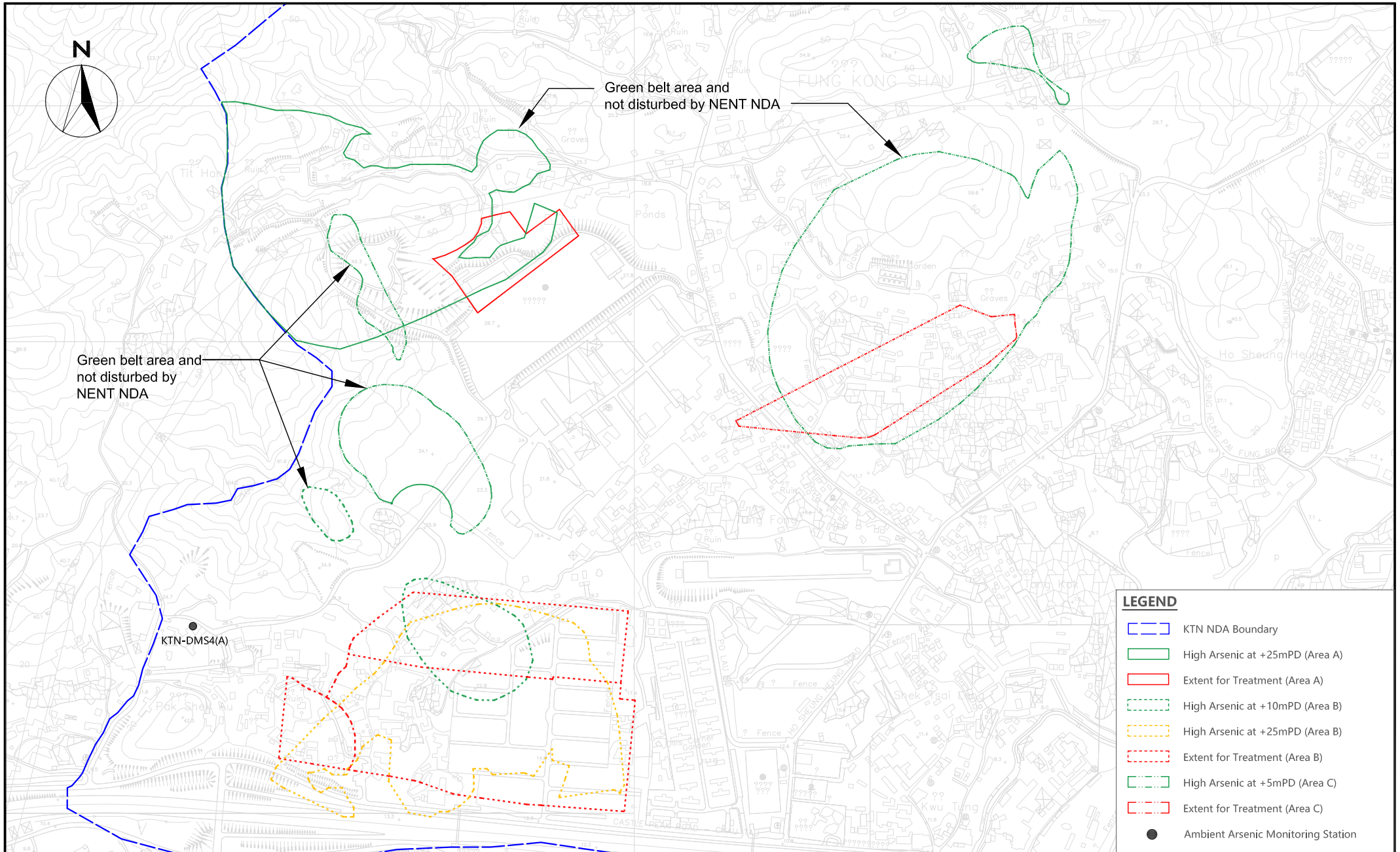
NTR-IS1

LEGEND:

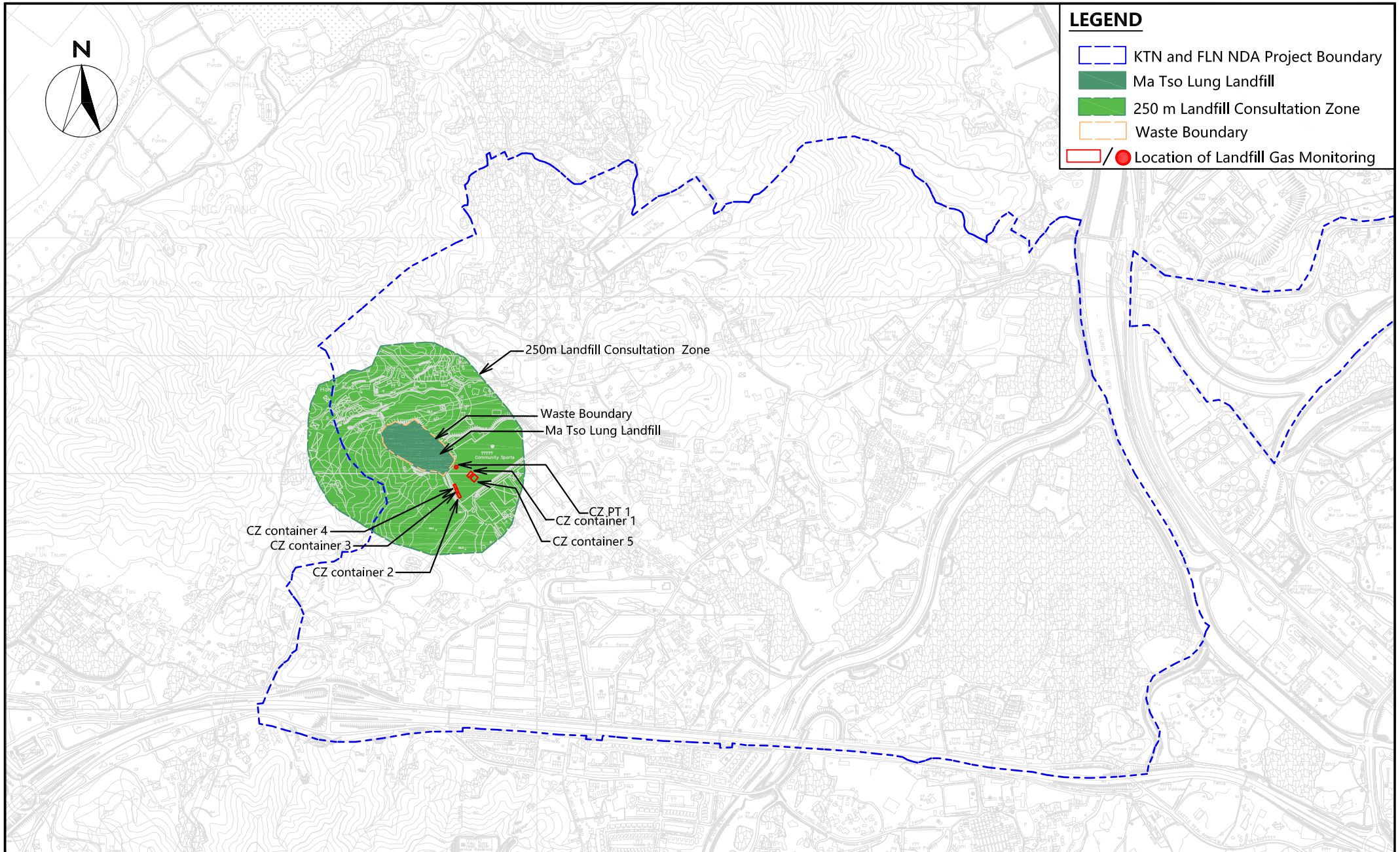


Water Quality Monitoring Station

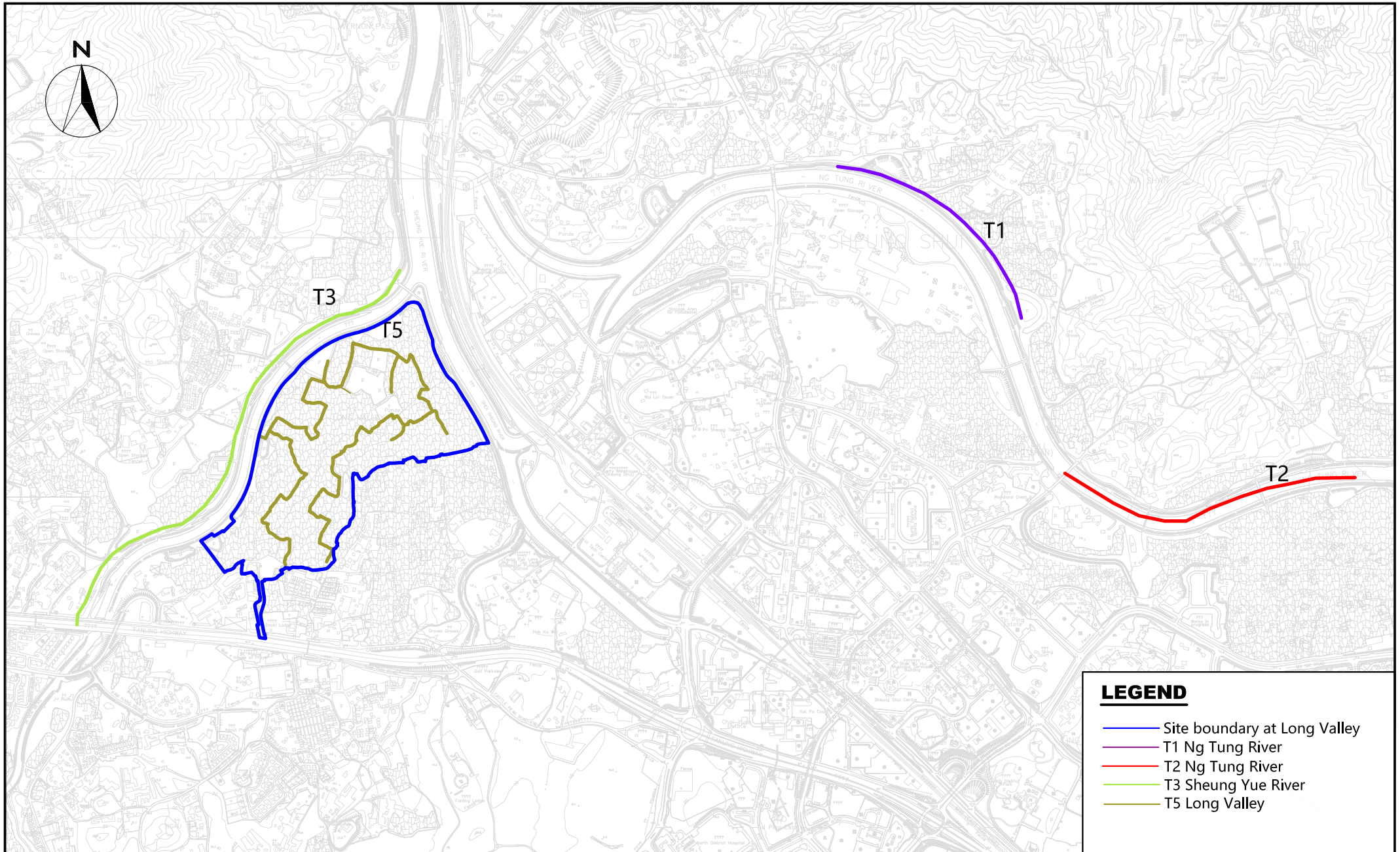
SCALE	A4 @ 1:20000	DATE	FEB 2021	
CHECK	KL	DRAWN	NL	
PROJECT No.	WMA20002	FIGURE NO.	6	REV —



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



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



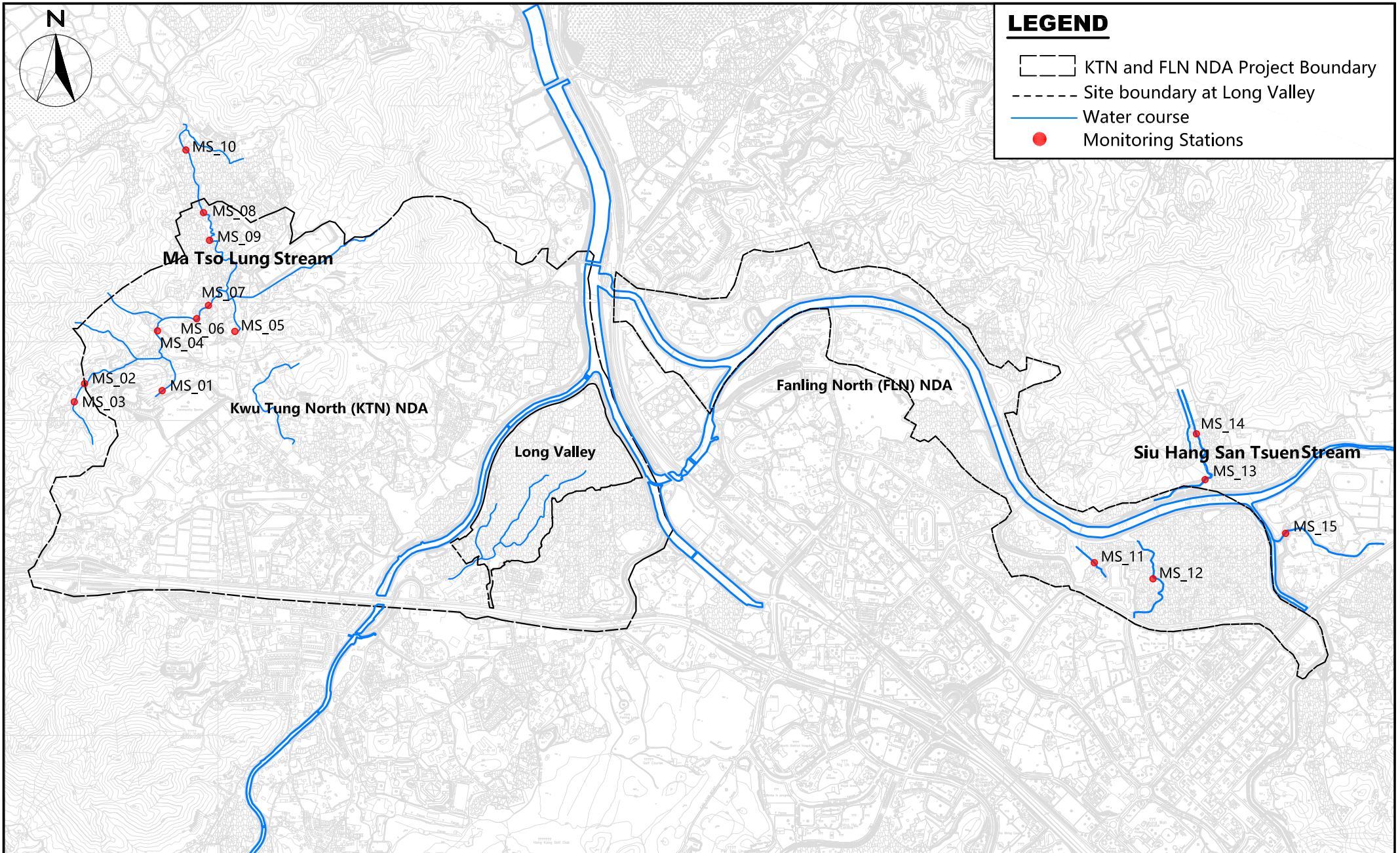
LEGEND			
	Site boundary at Long Valley		
	T1 Ng Tung River		
	T2 Ng Tung River		
	T3 Sheung Yue River		
	T5 Long Valley		

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

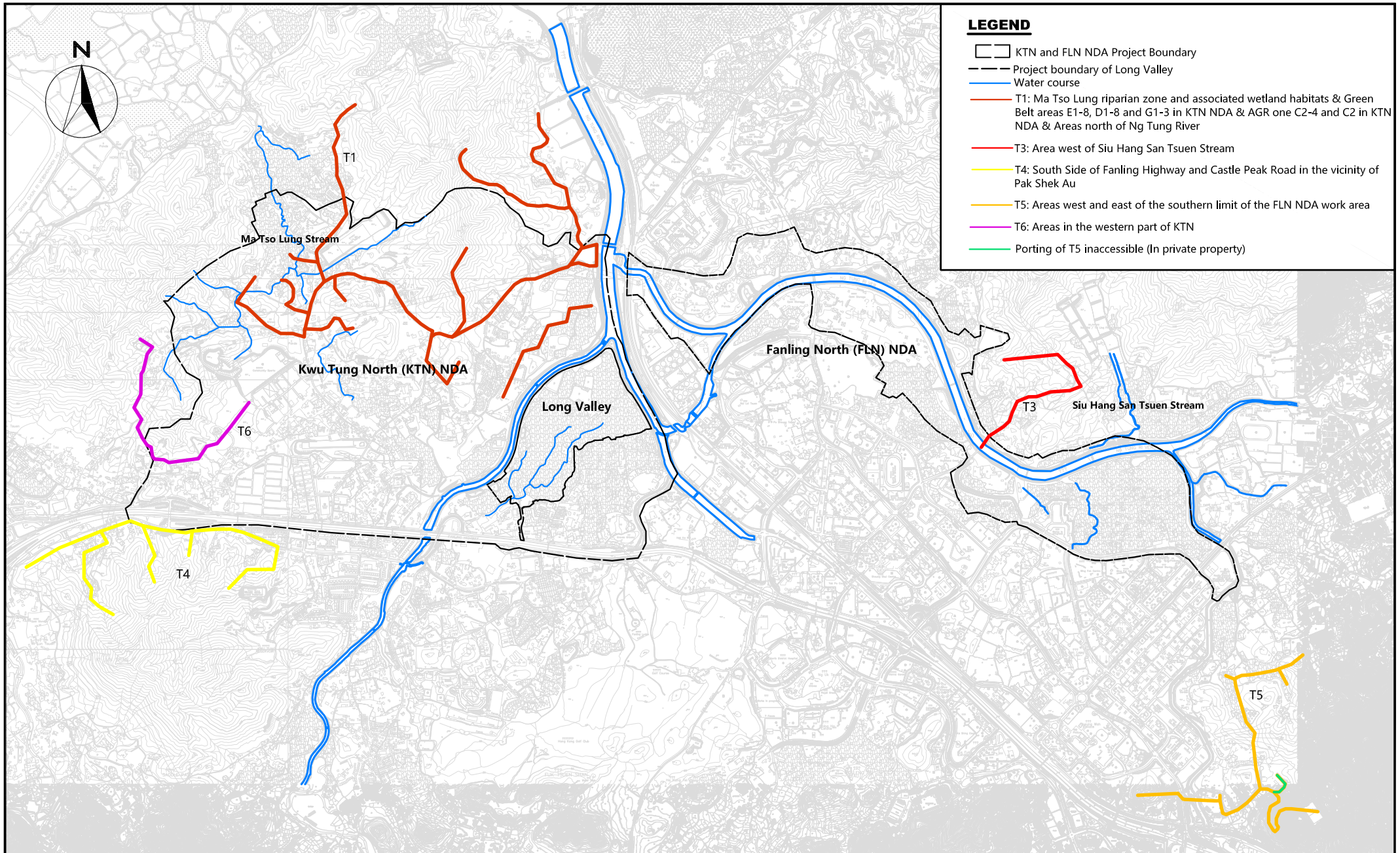


LEGEND

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



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

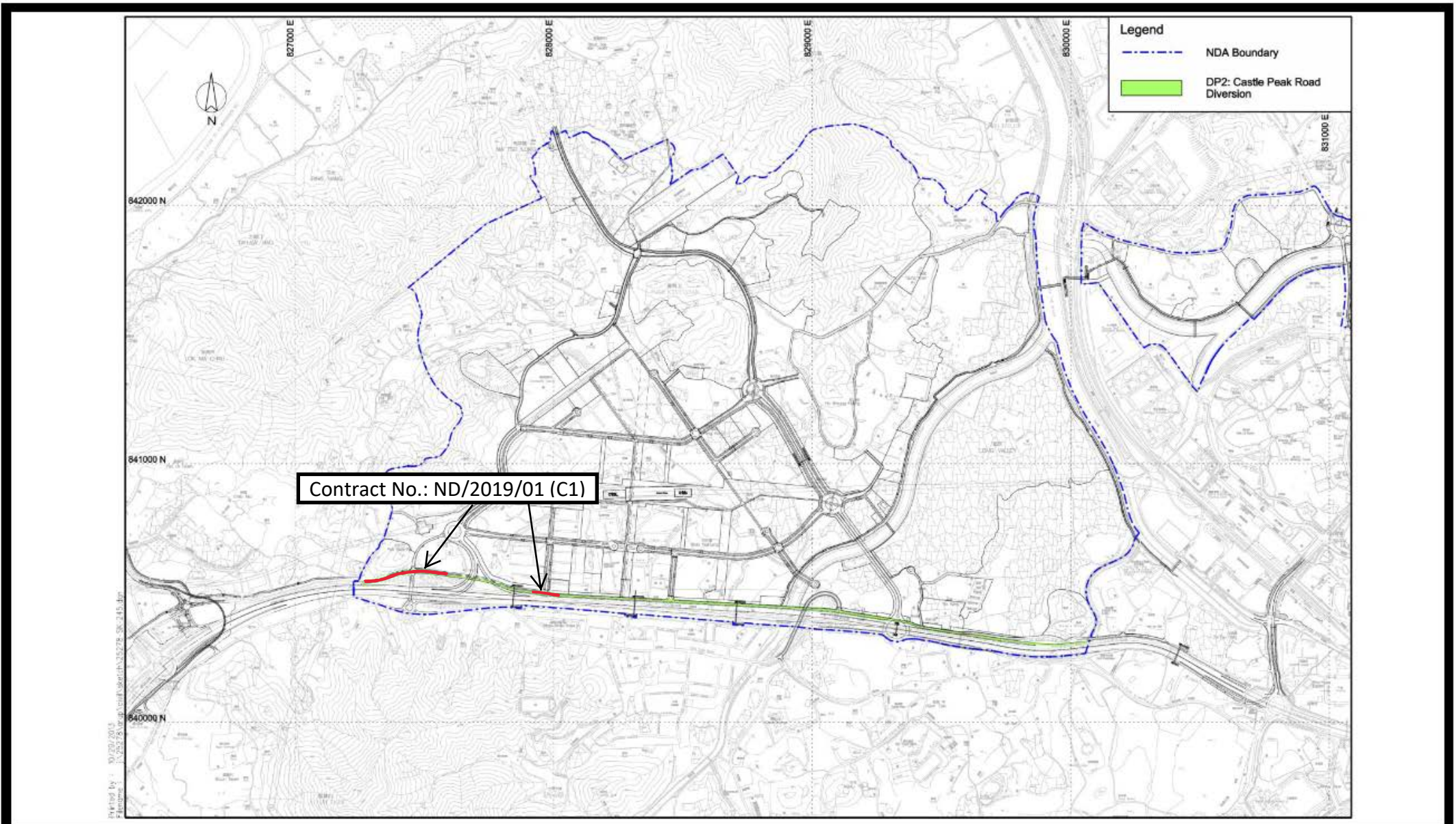


SCALE	A4 @ 1:70000	DATE	JUL 2021	
CHECK	KL	DRAWN	ML	
PROJECT No.	WMA20002	FIGURE NO.	11	REV —

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)

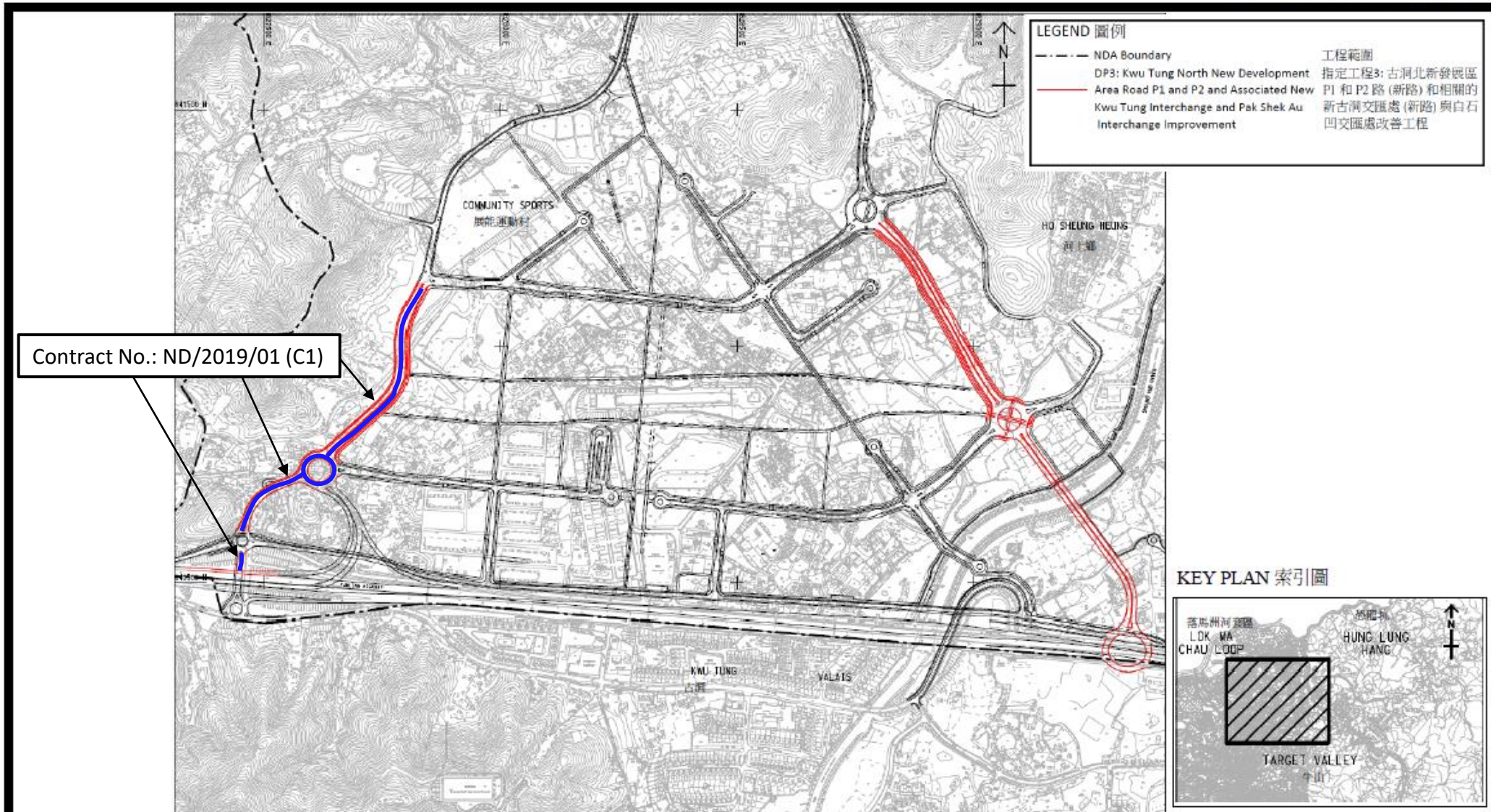
**Environmental Permit No:
EP-466/2013/A**



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

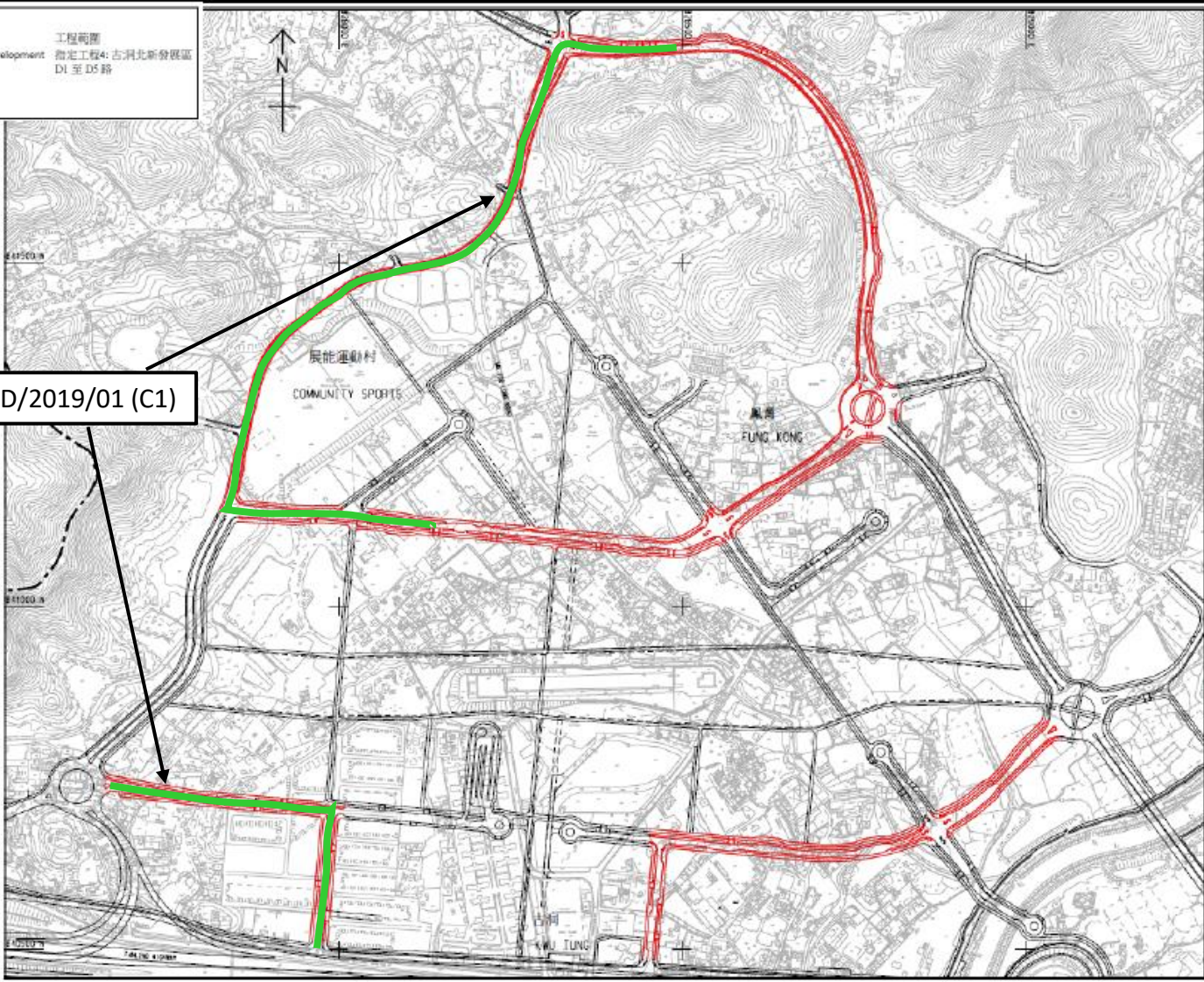
Site Layout Plan of Contract ND/2019/01

under EP-468/2013/A

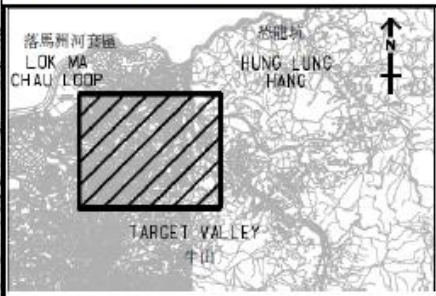
LEGEND 圖例

	NDA Boundary	工程範圍
	DP4: Kwu Tung North New Development Area Road D1 to D5	指定工程4: 古洞北新發展區 D1 至 D5 路

Contract No.: ND/2019/01 (C1)



KEY PLAN 索引圖



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

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)

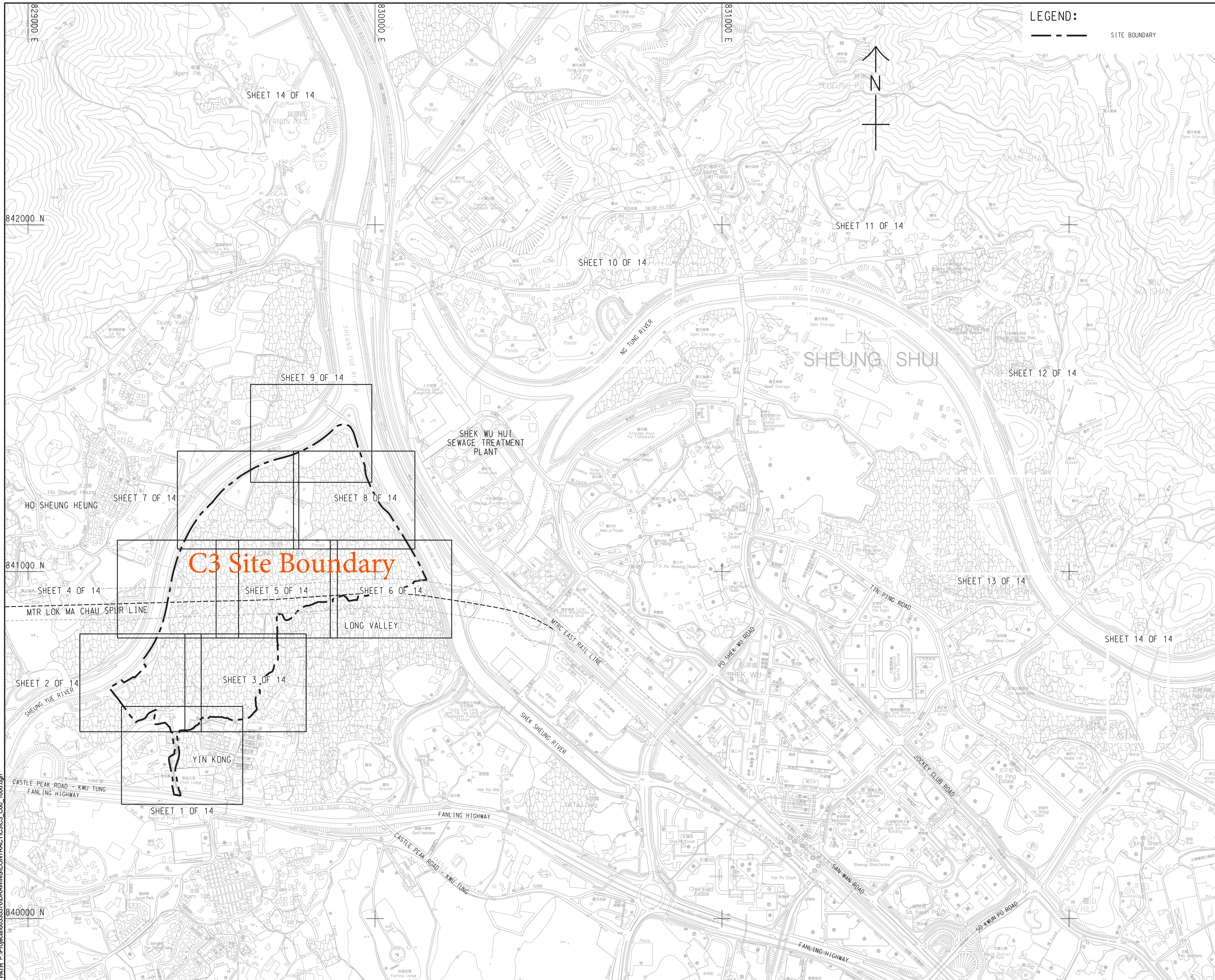
環境許可證編號：
 EP-468/2013/A



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
 工程顧問公司
 AECOM Asia Company Ltd.
 www.aecom.com

SUB-CONSULTANTS
 分判工程顧問公司

ISSUE/REVISION

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

STATUS
 備註

SCALE
 比例: A1 : 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

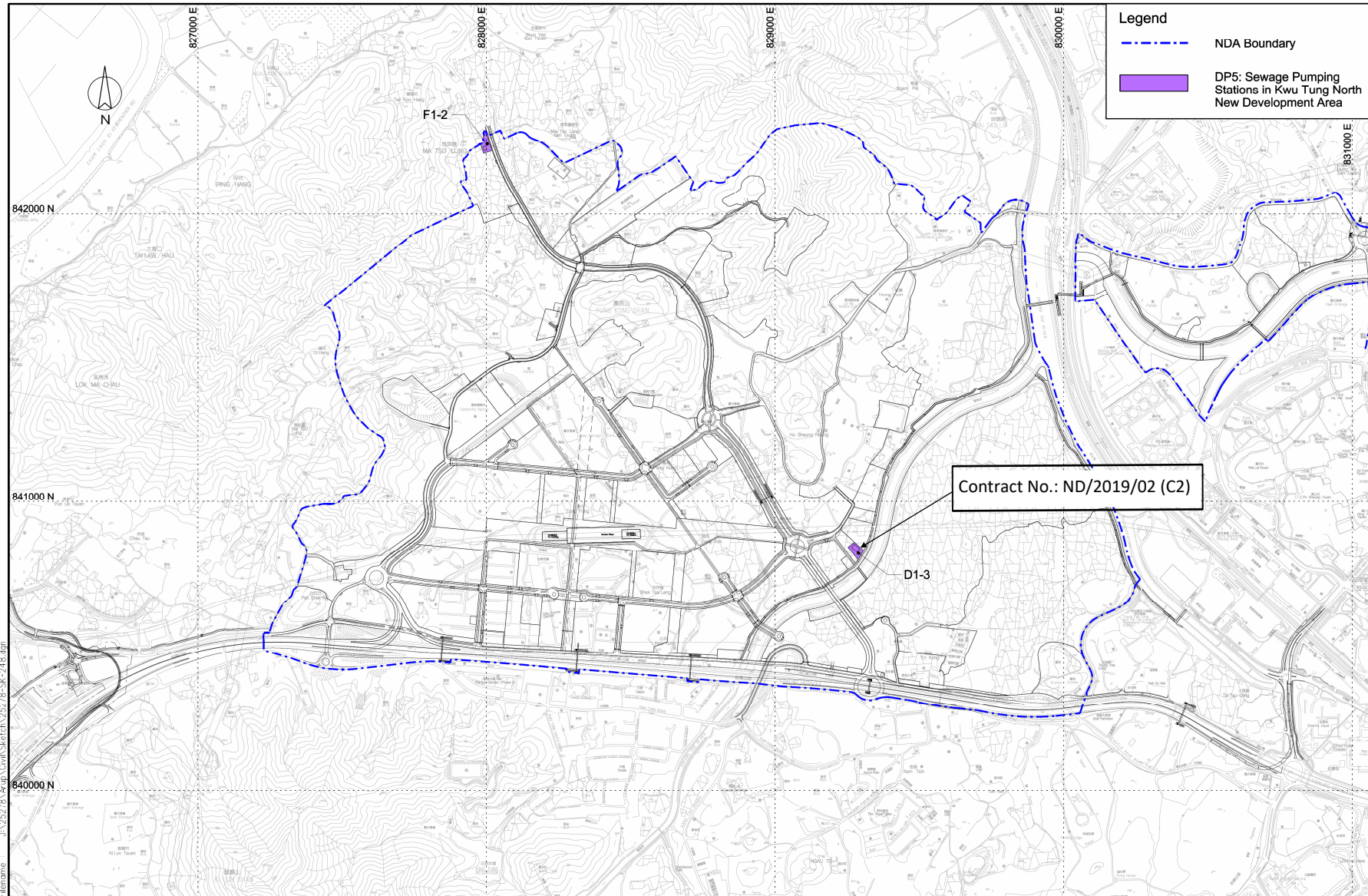
SHEET NUMBER
 圖紙編號: 60335576/C3/C00/1000

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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)

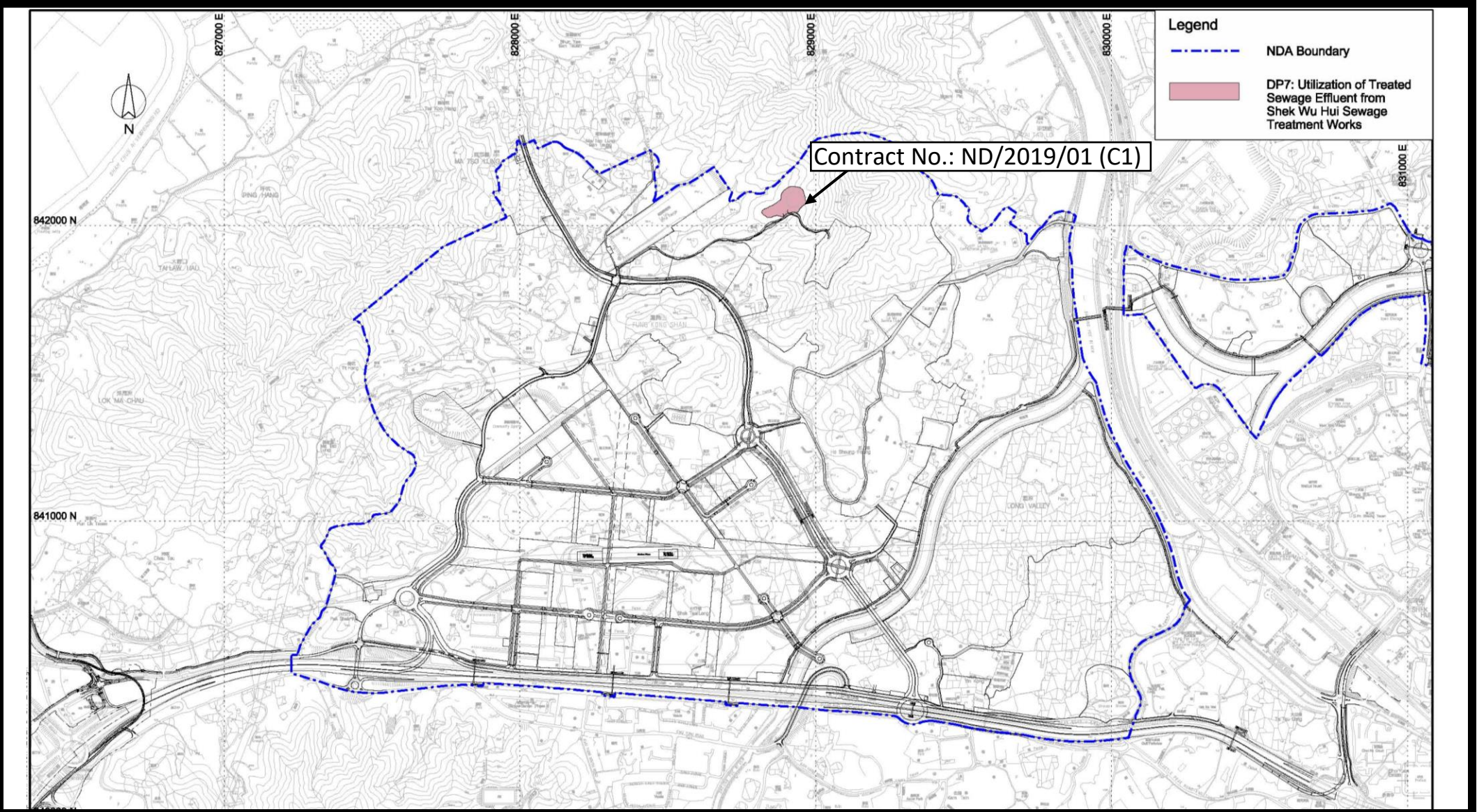
**Environmental Permit No:
EP-469/2013**



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)

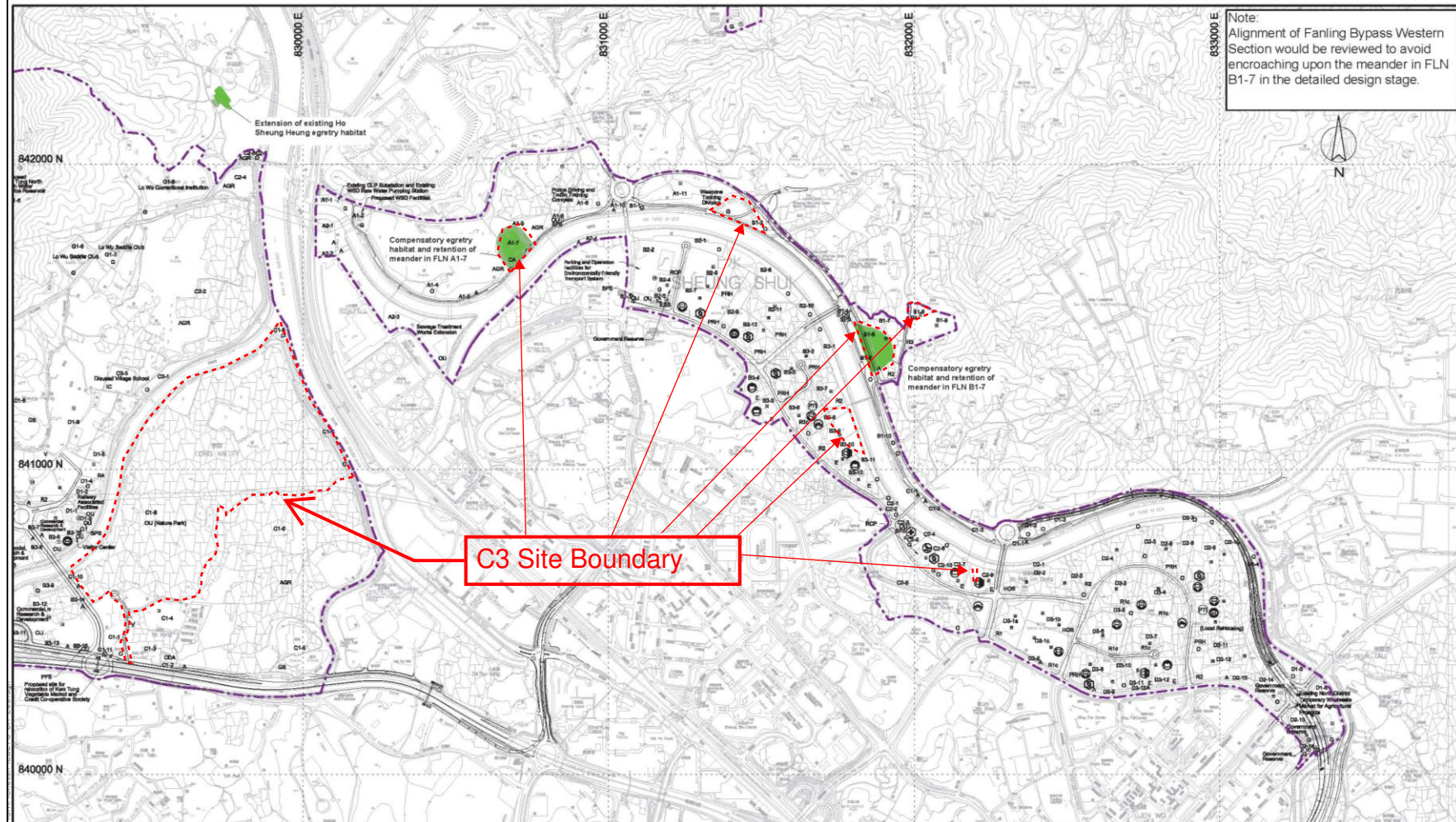
**Environmental Permit No:
EP-470/2013/A**



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 Egretty Sites and Retained Meanders
圖 2: 替代鷺鳥林選址和保留河曲的位置

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

(摘錄自新界東北新發展區規劃及工程研究 圖: SK/254)

Environmental Permit No:
EP-473/2013/A

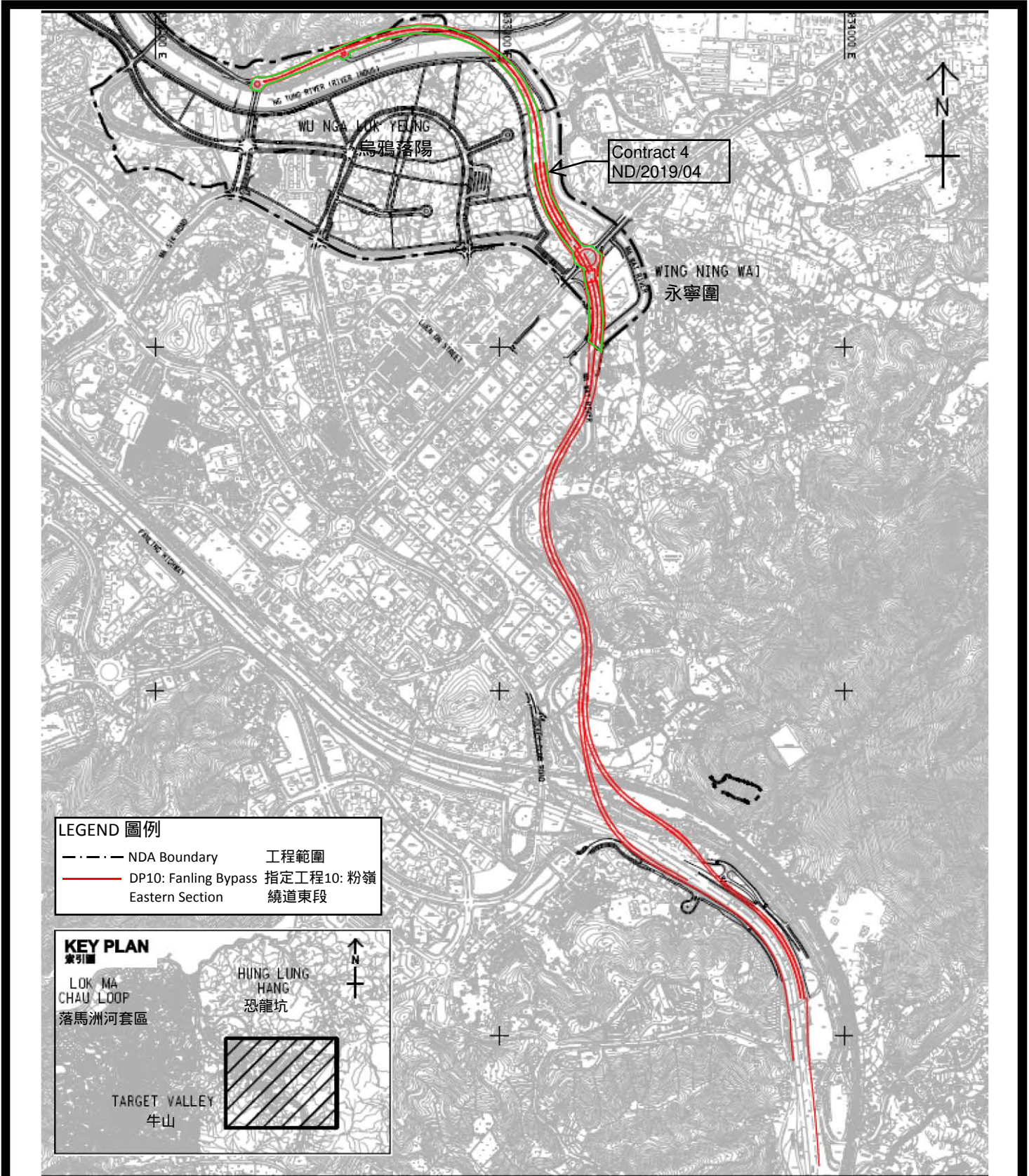
環境許可證編號: EP-473/2013/A



Figure 19

Site Layout Plan of Contract ND/2019/04

under EP-473/2013/A



Project Title: Fanling Bypass Eastern Section

工程名稱: 粉嶺繞道東段

Figure 1: Location Plan for the Project (Indicative)

圖 1: 工程項目位置 (示意圖)

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

Environmental Permit No:

EP-473/2013/A

環境許可證編號:

EP-473/2013/A

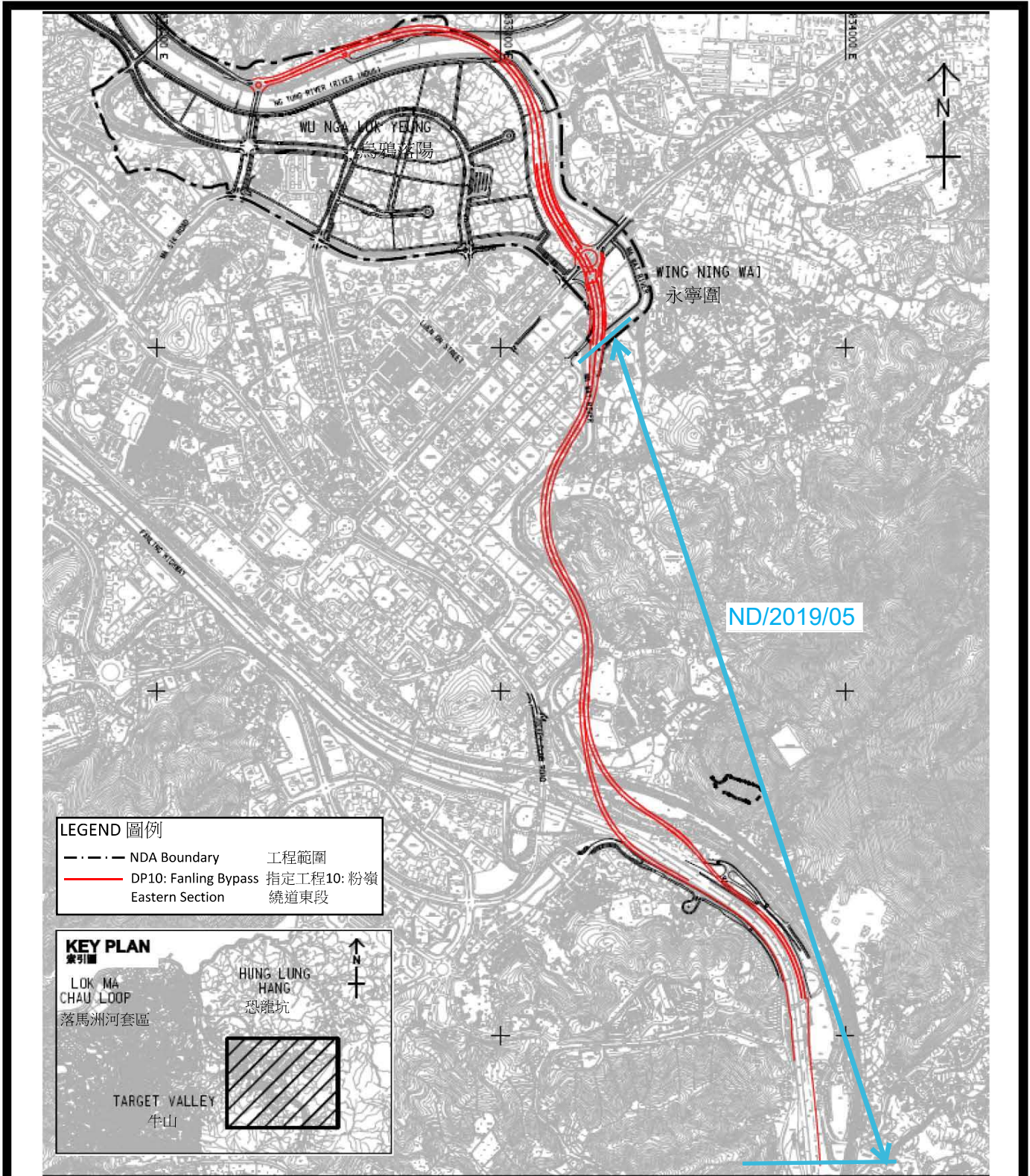
EP-473/2013/A



Figure 20

Site Layout Plan of Contract ND/2019/05

under EP-473/2013/A



Project Title: Fanling Bypass Eastern Section

工程名稱: 粉嶺繞道東段

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

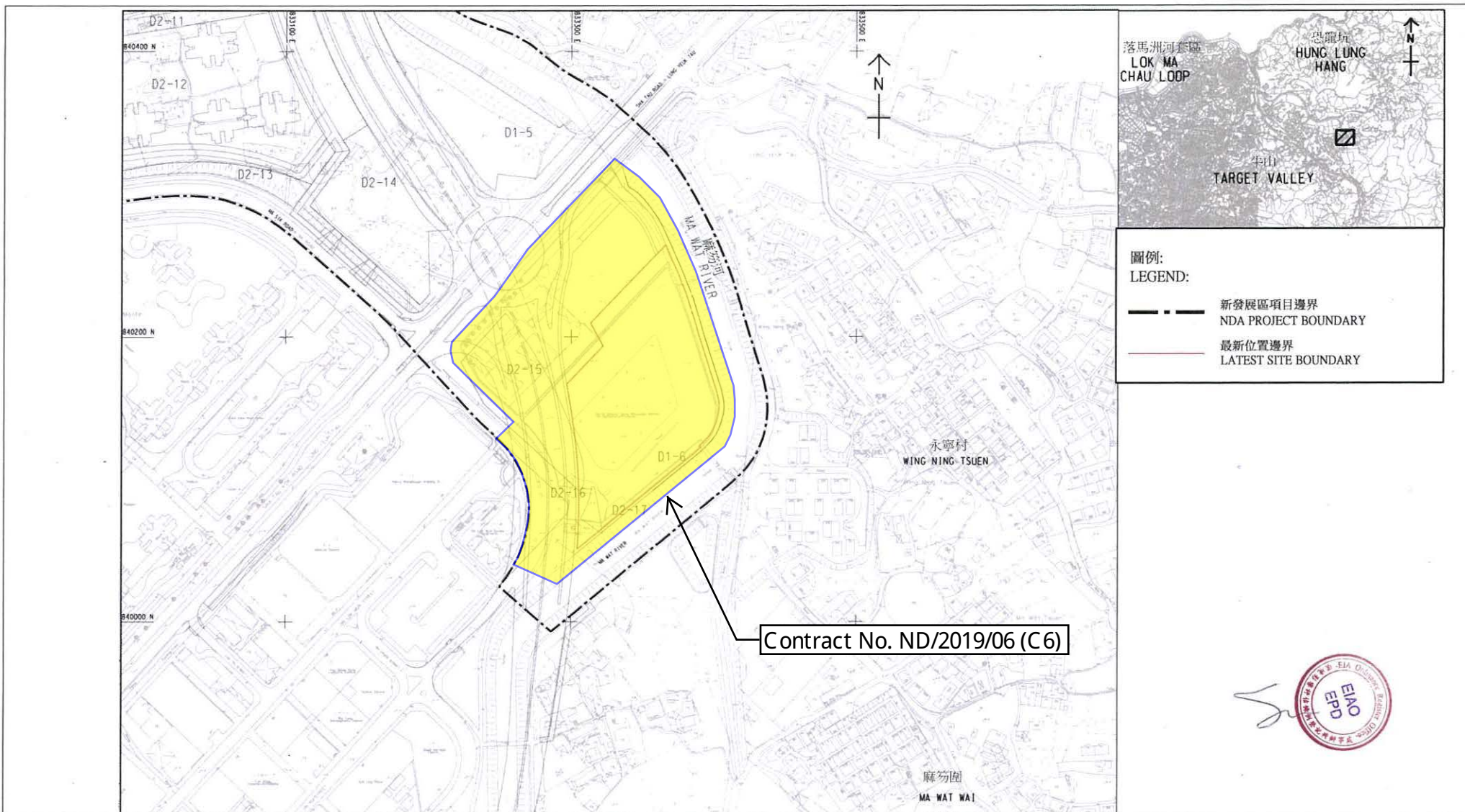
EP-473/2013/A



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)

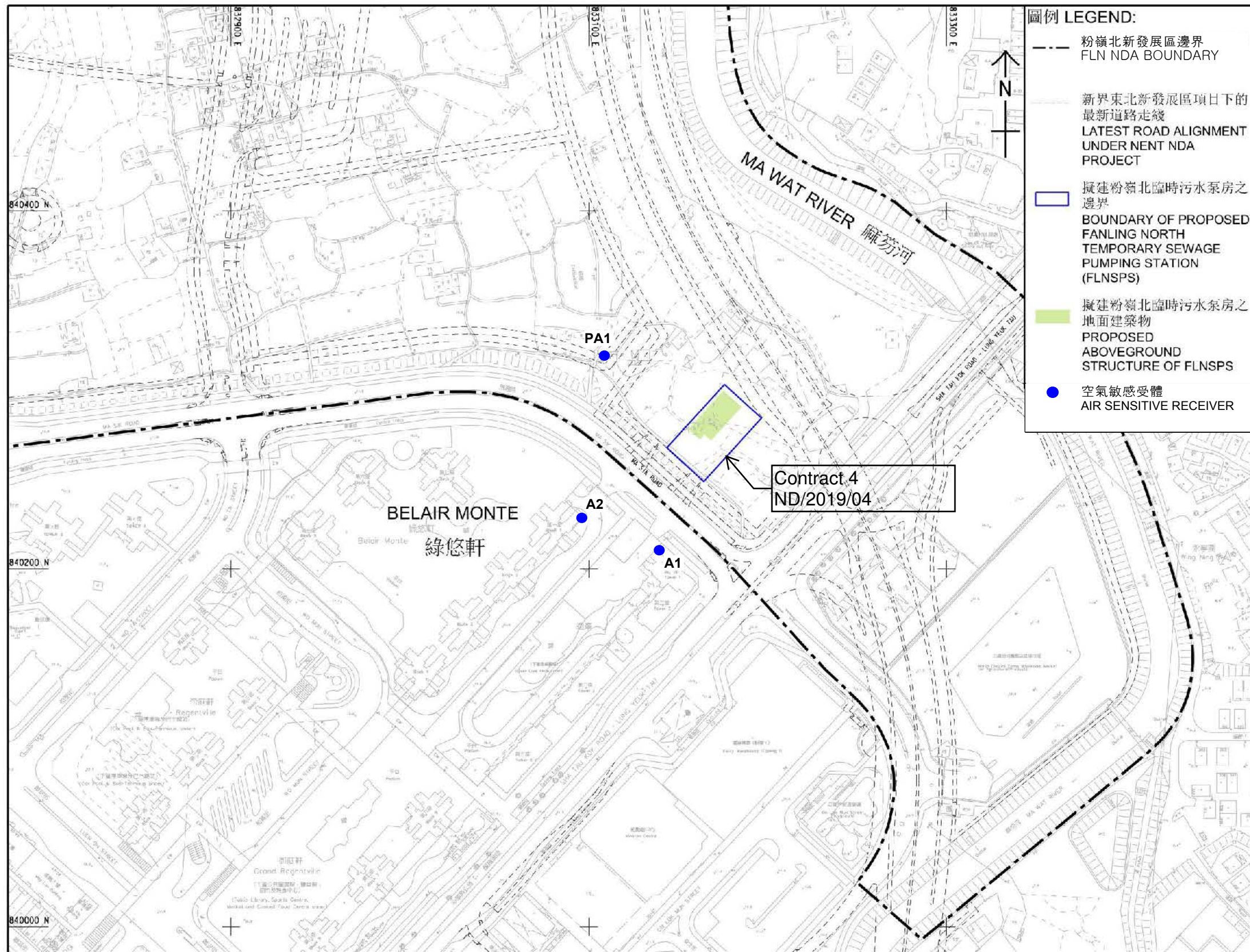
(This figure was prepared based on Figure 1.1 of VEP application (No.: VEP-516/2016))
 (本圖是根據申請更改環境許可證(編號 VEP-516/2016) 圖 1.1 編制)



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	March 2024					April 2024				May 2024				June 2024			
							26	04	11	18	25	01	08	15	22	29	06	13	20	27	03	10	17
Revised Programme (2024-02-25) Rev.0																							
2.0 - Site Access Dates																							
AD-1020	Portion 1c - (Contract 6 Jan 2022)	0	25-Mar-24*		-809	CD(7d)																	
3.0 - Site Completion Dates																							
3.1 Sectional Work Completion (Original Contract Completion Date)																							
SC0-1120	Section 8 - all works in Area A except works under Section 18 and landscape works	0		21-Jun-24*	0	CD(7d)																	
SC0-1240	Section 18 - the 700mm diameter water mains laying works and associated ancillary structures	0		21-Jun-24*	0	CD(7d)																	
3.2 Planned Sectional Work Completion																							
SC-1130	Section 9 - all works in Area F (21.5 days EOT granted up to 28-Sep-2022)	0	25-Mar-24*		-543	CD(7d)																	
4.0 - Key Dates																							
4.1 Key Date Completion (Original Contract Completion Date)																							
KD0-1070	KD8 1598 days after starting date	0		21-Apr-24*	0	CD(7d)																	
6.0 - Preliminaries and General Requirements																							
6.2 - General Submissions																							
GS-1230	Submission of Major Method Statements	42	06-Dec-19 A	05-May-24	224	CD(7d)																	
GS-1290	Preparation and Submission of Fully Corodinated BIM	1034	21-Aug-20 A	25-Apr-27	-88	CD(7d)																	
GS-1310	Water Supply to WSD for Irrigation System (Road D1-1) - WWO542 Submission	15	25-Mar-24	08-Apr-24	401	CD(7d)																	
GS-1310.0	Water Supply to WSD for Irrigation System (Road D1-1) - WWO542 Approval	30	09-Apr-24	08-May-24	401	CD(7d)																	
GS-1310.2	Water Supply to WSD for Irrigation System (Road D1-1) - WWO46 Part I II Submission	15	09-May-24	23-May-24	401	CD(7d)																	
GS-1310.4	Water Supply to WSD for Irrigation System (Road D1-1) - WWO46 Part I II Approval	30	25-May-24	23-Jun-24	400	CD(7d)																	
GS-1340	Water Supply to WSD for Irrigation System Castle Peak Road (PKSA North) - WWO542 Submission	15	25-Mar-24	08-Apr-24	949	CD(7d)																	
GS-1340.0	Water Supply to WSD for Irrigation System Castle Peak Road (PKSA North) - WWO542 Approval	30	09-Apr-24	08-May-24	949	CD(7d)																	
GS-1340.2	Water Supply to WSD for Irrigation System Castle Peak Road (PKSA North) - WWO46 Part I II Submission	15	09-May-24	23-May-24	949	CD(7d)																	
GS-1340.4	Water Supply to WSD for Irrigation System Castle Peak Road (PKSA North) - WWO46 Part I II Approval	30	24-May-24	22-Jun-24	949	CD(7d)																	
GS-1350	Water Supply to WSD for Irrigation System Kwu Tong Road (PKSA South) - WWO542 Submission	15	23-Apr-24	07-May-24	338	CD(7d)																	
GS-1350.0	Water Supply to WSD for Irrigation System Kwu Tong Road (PKSA South) - WWO542 Approval	30	08-May-24	06-Jun-24	338	CD(7d)																	
GS-1350.2	Water Supply to WSD for Irrigation System Kwu Tong Road (PKSA South) - WWO46 Part I II Submission	15	07-Jun-24	21-Jun-24	338	CD(7d)																	
GS-1350.4	Water Supply to WSD for Irrigation System Kwu Tong Road (PKSA South) - WWO46 Part I II Approval	30	22-Jun-24	21-Jul-24	338	CD(7d)																	
GS-1380	Water Supply to WSD for Irrigation System (Road L1) - WWO542 Submission	15	25-Mar-24	08-Apr-24	34	CD(7d)																	
GS-1380.0	Water Supply to WSD for Irrigation System (Road L1) - WWO542 Approval	30	09-Apr-24	08-May-24	34	CD(7d)																	
GS-1380.2	Water Supply to WSD for Irrigation System (Road L1) - WWO46 Part I II Submission	15	09-May-24	23-May-24	34	CD(7d)																	
GS-1380.4	Water Supply to WSD for Irrigation System (Road L1) - WWO46 Part I II Approval	30	24-May-24	22-Jun-24	34	CD(7d)																	
6.3 - Subletting Packages																							
SP-1210	Landscaping Works	11	05-Jun-23 A	04-Apr-24	481	CD(7d)																	
7.0 Construction																							
Section 1																							
Portion 10a in Area H, H1, H2 (Soil Treatment & Provision of Site Access & EVA to MWSC)																							
Remaining Road works in Area H																							
S1P10a-2018	Road Works - Irrigation System Installation	60	24-Jun-24	02-Sep-24	324	WD(6d)																	
S1P10a-4000	DCS Works by Others (Commencement Date May-2023)	27	20-May-23 A	20-Apr-24	526	CD(7d)																	
Section 3																							



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

ND/2019/01 - 3 Month Rolling Programme (2024-03)

Data Date: 25-Mar-24 Run Date: 31-Mar-2024

Project ID: ND201901-RP-27
 Layout: ND201901-3MRP with logo for Edward
 Page 1 of 15

REVISED PROGRAMME (2024-03)			
Date	Revision	Checked	Approved
31-Mar-24	Rev.0	SC	BY

Activity ID	Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar	March 2024					April 2024				May 2024				June 2024					
							26	04	11	18	25	01	08	15	22	29	06	13	20	27	03	10	17	24	
Portion 1a in Area E (Soil Treatment & Interface with HKHS's Contractors)																									
Soil Treatment																									
S3P1a-2000	Construct & maintain Temporary drainage	48	01-Mar-23 A	25-May-24	480	WD(6d)	Construct & maintain Temporary drainage																		
S3P1a-2020	Backfilling to the formation levels (by others)	48	25-Mar-24	25-May-24	480	WD(6d)																			
Section 6B																									
Portion 1e in Area G2 (Soil Treatment)																									
Soil Treatment																									
S6BP1e-2000	Construct & maintain Temporary drainage	72	22-Jun-24	14-Sep-24	234	WD(6d)																			
S6BP1e-2010	Remove soil (original assumed 1422m3) (0 / 1 EGI completed, interim soil to be excavated / treated : 0m3 / 0m3)	24	22-Jun-24*	20-Jul-24	164	WD(6d)																			
Portion 11b in Area G2 (Soil Treatment)																									
Preparation work/Tree Survey/Site Clearance/GI																									
S6BP11b-1020	Site Clearance & Tree Felling	54	25-Mar-24	01-Jun-24	180	WD(6d)																			
Soil Treatment																									
S6BP11b-2000	Construct & maintain Temporary drainage	78	03-Jun-24	03-Sep-24	244	WD(6d)																			
S6BP11b-2010	Remove soil (original assumed 1125m3) (0 / 1 EGI result received, interim soil to be excavated / treated : 0m3 / 0m3)	24	03-Jun-24	02-Jul-24	180	WD(6d)																			
Section 6C																									
Portion 11b in Area G3 (Soil Treatment)																									
Preparation work/Tree Survey/Site Clearance/GI																									
S6CP11b-1020	Site Clearance & Tree Felling	54	25-Mar-24	01-Jun-24	180	WD(6d)																			
Soil Treatment																									
S6CP11b-2000	Construct & maintain Temporary drainage	72	03-Jun-24	27-Aug-24	402	WD(6d)																			
S6CP11b-2010	Remove soil (original assumed 2685m3) (0 / 1 EGI completed, interim soil to be excavated / treated : 0m3 / 0m3)	24	03-Jun-24	02-Jul-24	180	WD(6d)																			
Section 8																									
S8-1022	Uncharted Artificial Hard Materials Encountered during Construction of Cut-Slope KS34 in Pak Shek (EWN 092) (CNE 128)	0		25-Mar-24	-624	CD(7d)	Uncharted Artificial Hard Materials Encountered during Construction of Cut-Slope KS34 in Pak Shek (EWN 092) (CNE 128)																		
Portion 2 in Area A (Soil Treatment & Construction of Pak Shek Au Junction)																									
Soil Treatment																									
S8P2-2010	Remove soil (original assumed 6898m3) (0/1 EGI completed, interim soil to be excavated / treated : 0m3/0m3) Clean Soil	26	25-Mar-24	27-Apr-24	-492	WD(6d)																			
S8P2-2020	Backfilling to the formation levels	48	29-Apr-24	26-Jun-24	-492	WD(6d)																			
Civil Work																									
Construction of Pak Shek Au Junction																									
Construction of Pak Shek Au Junction Stage 1																									
S8P2-4120.100	Construction of Temporary Road, Implement TTA & Divert Traffic to Temp Rd	46	23-Feb-24 A	23-May-24	-527	WD(6d)	Implement TTA Stage 1																		
S8P2-4120.102	Implement TTA Stage 1	0		23-May-24	-651	CD(7d)																			
S8P2-4120.104	Excavation and Hanging UU	15	24-May-24	11-Jun-24	-524	WD(6d)																			
S8P2-4120.110	Construct Drainage SMHKT 1111a to KTRC1 (0 / 4 MH Complete)	48	12-Jun-24	07-Aug-24	-527	WD(6d)																			
S8P2-4120.115	Construct Rectangular Channel RC1	48	12-Jun-24	07-Aug-24	-527	WD(6d)																			
Portion 1a in Area A (Soil Treatment, Slope, Retaining Wall, Noise Barrier, Drainage & Roadwork)																									
Preparation work																									
S8P1a-0110	Unexpected Long Approval Process for Tech Submission for Works in MTRC Zone Portion 12, 1a & 1b (EWN 090) (CNE 115)	0		25-Mar-24	-525	CD(7d)	Unexpected Long Approval Process for Tech Submission for Works in MTRC Zone Portion 12, 1a & 1b (EWN 090) (CNE 115)																		
S8P1a-0112	Strong Objection for a Grave on the Construction Works in the vicinity of the Road P1-1 and Roundabout C3 at 1 (CNE 109)	0		25-Mar-24	-431	CD(7d)	Strong Objection for a Grave on the Construction Works in the vicinity of the Road P1-1 and Roundabout C3 at 1 (CNE 109)																		
S8P1a-1010	Site clearance & Tree Felling	10	05-Oct-22 A	09-Apr-24	-355	WD(6d)																			
S8P1a-1015	Ground investigation (4 / 7 GI completed)	12	05-Nov-22 A	11-Apr-24	-355	WD(6d)																			
S8P1a-1025	Verification of Ground Condition & Design Review by Project Manager	60	12-Apr-24	10-Jun-24	-438	CD(7d)																			
Soil Treatment																									
S8P1a-2010	Remove soil (original assumed 10988m3) (0 / 6 EGI completed, interim soil to be excavated / treated : 0m3 / 0m3)	24	25-Mar-24	25-Apr-24	-348	WD(6d)																			



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

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Data Date: 25-Mar-24

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Activity ID	Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar	March 2024					April 2024				May 2024				June 2024						
							26	04	11	18	25	01	08	15	22	29	06	13	20	27	03	10	17	24		
S8K8-6002	Strong Objection on the Construction of Fresh and Flushing Reservoirs (EWN 031)	0		25-Mar-24	-220	CD(7d)	Strong Objection on the Construction of Fresh and Flushing Reservoirs (EWN 031)																			
Construction of Kwu Tung North Flushing Water Service Reservoir (KTN FLWSR)																										
Civil Works																										
S8K8-1005	Construct & maintain Temporary drainage	138	25-Mar-24	10-Sep-24	-203	WD(6d)																				
S8K8-1038	Install Watermains inside Chambers	30	22-Feb-23 A	03-May-24	-203	WD(6d)																				
S8K8-1040	Backfilling (6559m3)	108	04-May-24	10-Sep-24	-203	WD(6d)																				
S8K8-1140	Whole Structure - Fill up Tank No.1 & 2 for Water Tightness Test	28	22-Jan-24 A	30-Apr-24	-124	WD(6d)																				
S8K8-1150	Whole Structure - Tank No. 1 & 2 Water Tightness Test	14	01-May-24	14-May-24	-156	CD(7d)																				
S8K8-1160	Roof - Pond Roof for Roof & Drainage Water Tightness Test	12	16-May-24	29-May-24	-123	WD(6d)																				
S8K8-1170	Roof - Roof & Drainage Water Tightness Test	12	30-May-24	10-Jun-24	-158	CD(7d)																				
E&M Works																										
S8K8-2010	Design and Approval for E&M works for KTN FLWSR	33	01-Feb-21 A	26-Apr-24	-345	CD(7d)																				
S8K8-2020	Submission and Approval of E&M plants & materials for KTN FLWSR	57	01-Feb-21 A	20-May-24	-345	CD(7d)																				
S8K8-2030	Procurement of E&M equipment for KTN FLWSR	95	15-Aug-22 A	23-Aug-24	-345	CD(7d)																				
S8K8-2040	Supply, Factory Acceptance Test (FAT) & Delivery of E&M equipment for KTN FLWSR	120	11-Jun-24	01-Nov-24	-279	WD(6d)																				
Construction of Kwu Tung North Freshwater Service Reservoir (KTN FWSR)																										
S8K8-6034	Revised Construction Drawings of Fresh Water Service Reservoir (CNE 067, 067a)	0		25-Mar-24	-234	CD(7d)	Revised Construction Drawings of Fresh Water Service Reservoir (CNE 067, 067a)																			
Civil Works																										
S8K8-1004	Cast Temporary Roof slab Opening	14	27-Mar-24	16-Apr-24	-186	WD(6d)																				
S8K8-1032	Construction of Inlet Chamber	12	27-Dec-23 A	11-Apr-24	-191	WD(6d)																				
S8K8-3000	Construct & maintain Temporary drainage	212	25-Mar-24	09-Dec-24	-191	WD(6d)																				
S8K8-3038	Install Watermains inside Chambers	100	12-Apr-24	10-Aug-24	-191	WD(6d)																				
S8K8-3040.10	Tank No. 1 - Fill up Tank No. 1 for Water Tightness Test & Water Sterility Test	42	17-Apr-24	06-Jun-24	-186	WD(6d)																				
S8K8-3040.20	Tank No. 1 - Water Tightness Test & Water Sterility Test	14	07-Jun-24	20-Jun-24	-232	CD(7d)																				
S8K8-3040.30	Tank No. 2 - Fill up Tank No. 2 for Water Tightness Test & Water Sterility Test	42	21-Jun-24	09-Aug-24	-186	WD(6d)																				
S8K8-3060	Up Hill Receiving Pit - ELS, Excavation & Construction	38	25-Jan-24 A	13-May-24	-505	WD(6d)																				
S8K8-3060.00	Up Hill Receiving Pit - Set up for Break Through and TBM Removal (Drill Holes and Grout Block, Temp Platform)	20	14-May-24	06-Jun-24	-445	WD(6d)																				
S8K8-3060.02	Up Hill Receiving Pit - TBM Break Through	0		06-Jun-24	-552	CD(7d)	Up Hill Receiving Pit - TBM																			
S8K8-3060.04	Up Hill Receiving Pit - Remove TBM	16	07-Jun-24	26-Jun-24	-445	WD(6d)																				
S8K8-3070.00	Road W5 - Construct Retaining Wall RW6 to +94.0 (0 / 1 bays complete)	18	14-May-24	04-Jun-24	-505	WD(6d)																				
S8K8-3070.20	Road W5 - Construct Retaining Wall RW5 to +94.0 (0 / 1 bays complete)	18	05-Jun-24	26-Jun-24	-505	WD(6d)																				
S8K8-3250	Road W5 - Interface Slope between KS47 and Road W5 Slope	72	25-Mar-24	24-Jun-24	-371	WD(6d)																				
E&M Works																										
S8K8-4010	Design and Approval for E&M works for KTN FWSR	33	20-Dec-21 A	26-Apr-24	-345	CD(7d)																				
S8K8-4020	Submission and Approval of E&M plants & materials for KTN FWSR	57	15-Mar-22 A	20-May-24	-345	CD(7d)																				
S8K8-4030	Procurement of E&M equipment for KTN FWSR	95	15-Aug-22 A	23-Aug-24	-345	CD(7d)																				
S8K8-4040	Supply, Factory Acceptance Test (FAT) & Delivery of E&M equipment for KTN FWSR	140	17-May-24	01-Nov-24	-279	WD(6d)																				
Remaining pipe laying work and roadworks within Road W1 & W2																										
S8K8-4100.0	Road W1 - Excavation for Construction of Drainage Manhole (SMH KT 8105 to 7008A connection)	28	15-May-23 A	30-Apr-24	-209	WD(6d)																				
S8K8-4100.00	Road W1 - Construction of Drainage Manhole SMH KT 8105 to 7008A connection (1 / 3 M/H complete)	39	23-May-23 A	14-May-24	-112	WD(6d)																				
S8K8-4100.10	Road W1 - Backfilling to Formation Level of Watermain (SMH KT 8105 to 7008A connection)	30	16-May-24	20-Jun-24	-112	WD(6d)																				
S8K8-4100.20	Road W1 - Road W1 - Laying Fresh and Flushing Watermains	30	21-Jun-24	26-Jul-24	-112	WD(6d)																				
S8K8-4110	Road W1 - Excavation Construction of Drainage Manhole (SMH KT 7007 to 8103)	18	30-Jan-24 A	08-May-24	-209	WD(6d)																				
S8K8-4110.0	Road W1 - Construction of Drainage Manhole SMH KT 7007 to 8103 connection (0 / 3 M/H complete)	55	05-Feb-24 A	03-Jun-24	-230	WD(6d)																				
S8K8-4110.00	Road W1 - Backfilling to Formation Level of Watermain (SMH KT 7007 to 8103)	24	04-Jun-24	03-Jul-24	-230	WD(6d)																				
S8K8-4200.0	Road W2 - Excavation & ELS for Drainage Construction Manhole SMH KT 7002 connection to 8012	0	23-Dec-23 A	27-Feb-24 A		WD(6d)																				
S8K8-4200.10	Road W2 - Construction of Drainage Manhole SMH KT 7002 connection to 8012 (0 / 4 M/H complete)	74	30-Jan-24 A	26-Jun-24	-153	WD(6d)																				



- Planned Work
- Critical Work
- Actual Work
- ◆ Milestone
- ◆ Milestone Critical
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Activity ID	Activity Name	Remaining Duration	Start	Finish	Total Float	Calendar	March 2024					April 2024				May 2024				June 2024					
							26	04	11	18	25	01	08	15	22	29	06	13	20	27	03	10	17	24	
Section 18 (Subject to excision)																									
S18-1020	Watermain laying work in Portion 1a	252	07-Jul-23 A	22-Feb-25	-182	WD(6d)	[Red bar from 07-Jul-23 to 22-Feb-25]																		
S18-1030	Watermain laying work in Portion 3	86	23-Jun-23 A	11-Jul-24	2	WD(6d)	[Red bar from 23-Jun-23 to 11-Jul-24]																		
S18-1040	Watermain laying work in Portion 5	31	20-Sep-21 A	04-May-24	57	WD(6d)	[Red bar from 20-Sep-21 to 04-May-24]																		
S18-1050	Watermain laying work in Portion 6a & 6b	196	18-Jul-22 A	04-Dec-24	-120	WD(6d)	[Red bar from 18-Jul-22 to 04-Dec-24]																		
S18-1075	Watermain laying work in Portion 8a	340	03-May-24	26-Jun-25	-281	WD(6d)	[Red bar from 03-May-24 to 26-Jun-25]																		
Section 20 (Subject to excision)																									
S20-1022	Increased Difficulty for the Construction of Pak Shek Au Pedestrian Subway Cum Cycle Track (EWN 068) (CNE 116)	0		25-Mar-24	-682	CD(7d)	◆ Increased Difficulty for the Construction of Pak Shek Au Pedestrian Subway Cum Cycle Track (EWN 068) (CNE 116)																		
S20-1026	Conflict between the Existing Underground Utilities with the Proposed Pak Shek Au Pedestrian Subway (CNE 097) (CE286)	0		25-Mar-24	-657	CD(7d)	◆ Conflict between the Existing Underground Utilities with the Proposed Pak Shek Au Pedestrian Subway (CNE 097) (CE286)																		
S20-1030	Unexpected Underground Conditions Encountered during Construction of Pak Shek Au Pedestrian Subway (EWN 093) (CNE 1)	0		25-Mar-24	-662	CD(7d)	◆ Unexpected Underground Conditions Encountered during Construction of Pak Shek Au Pedestrian Subway (EWN 093) (CNE 1)																		
Construction of Pedestrian Subway cum Cycle Track Stage 2 (South of Castle Peak Road)																									
Civil and Structural Works																									
S20S2-6002	Subway Bay 8 - Lower the Platform (CE286)	3	21-Feb-24 A	27-Mar-24	-537	WD(6d)	[Red bar from 21-Feb-24 to 27-Mar-24]																		
S20S2-6010	Subway Bay 8 (Remaining) South Face - Preboring for Sheet Pile (CE286)	12	28-Mar-24	15-Apr-24	-540	WD(6d)	[Red bar from 28-Mar-24 to 15-Apr-24]																		
S20S2-6030	Subway Bay (3 - 8) South Face - (Remaining) Driving Sheet Pile (CE286)	12	16-Apr-24	29-Apr-24	-540	WD(6d)	[Red bar from 16-Apr-24 to 29-Apr-24]																		
S20S2-6050	Subway Bay (3 - 8) North Face - Driving Sheet Pile (CE286)	28	27-Dec-23 A	30-Apr-24	-537	WD(6d)	[Red bar from 27-Dec-23 to 30-Apr-24]																		
S20S2-7320.40	Subway Bay (1 & 2) South Face - ELS, Excavation, Waterproofing and Laying Blinding (CE286)	28	13-Jan-24 A	30-Apr-24	-531	WD(6d)	[Red bar from 13-Jan-24 to 30-Apr-24]																		
S20S2-7462.10	Bay No. 10 - Waterproofing Membrane & Mass Concrete Fill To walls	10	10-Apr-24	20-Apr-24	-260	WD(6d)	[Red bar from 10-Apr-24 to 20-Apr-24]																		
S20S2-7462.20	Bay No. 10 - Waterproofing Membrane & 120mm Brick Work To walls	10	22-Apr-24	03-May-24	-260	WD(6d)	[Red bar from 22-Apr-24 to 03-May-24]																		
S20S2-7482.10	Bay No. 11 - Waterproofing Membrane & 120mm Brick Work To walls	10	15-Dec-23 A	09-Apr-24	-260	WD(6d)	[Red bar from 15-Dec-23 to 09-Apr-24]																		
S20S2-7508	Bay No. 9a - RC Structure Wall & Top Slab	18	16-Apr-24	07-May-24	-526	WD(6d)	[Red bar from 16-Apr-24 to 07-May-24]																		
S20S2-7508.10	Bay No. 9a & 9b - Waterproofing Membrane & 120mm Brick Work To walls	12	08-May-24	22-May-24	-283	WD(6d)	[Red bar from 08-May-24 to 22-May-24]																		
S20S2-7508.20	Bay No. 9a & 9b - Waterproofing Membrane & 50mm Screeding To Roof Slab	8	23-May-24	31-May-24	-283	WD(6d)	[Red bar from 23-May-24 to 31-May-24]																		
S20S2-7540.00	Bay No. 1b RC Structure - Base Slab	10	02-May-24	13-May-24	-531	WD(6d)	[Red bar from 02-May-24 to 13-May-24]																		
S20S2-7540.02	Bay No. 1a RC Structure - Wall	14	25-Mar-24	13-Apr-24	-501	WD(6d)	[Red bar from 25-Mar-24 to 13-Apr-24]																		
S20S2-7540.04	Bay No. 1b RC Structure - Wall	14	14-May-24	30-May-24	-525	WD(6d)	[Red bar from 14-May-24 to 30-May-24]																		
S20S2-7540.10	Bay No. 1 - Waterproofing Membrane & Mass Concrete Fill To walls	10	31-May-24	12-Jun-24	-370	WD(6d)	[Red bar from 31-May-24 to 12-Jun-24]																		
S20S2-7540.20	Bay No. 1 - Waterproofing Membrane & 120mm Brick Work To walls	10	13-Jun-24	24-Jun-24	-370	WD(6d)	[Red bar from 13-Jun-24 to 24-Jun-24]																		
S20S2-7560.0	Bay No. 2a RC Structure - Base Slab	10	14-May-24	25-May-24	-531	WD(6d)	[Red bar from 14-May-24 to 25-May-24]																		
S20S2-7560.00	Bay No. 2b RC Structure - Base Slab	10	27-May-24	06-Jun-24	-531	WD(6d)	[Red bar from 27-May-24 to 06-Jun-24]																		
S20S2-7560.02	Bay No. 2a RC Structure - Wall	12	07-Jun-24	21-Jun-24	-531	WD(6d)	[Red bar from 07-Jun-24 to 21-Jun-24]																		
S20S2-7560.04	Bay No. 2b RC Structure - Wall	12	22-Jun-24	06-Jul-24	-531	WD(6d)	[Red bar from 22-Jun-24 to 06-Jul-24]																		
S20S2-7580.0	Bay No. 3a RC Structure - Base Slab	10	07-Jun-24	19-Jun-24	-527	WD(6d)	[Red bar from 07-Jun-24 to 19-Jun-24]																		
S20S2-7580.00	Bay No. 3b RC Structure - Base Slab	10	20-Jun-24	02-Jul-24	-527	WD(6d)	[Red bar from 20-Jun-24 to 02-Jul-24]																		
S20S2-7760.0	Bay No. 6b RC Structure - Base Slab	10	19-Jun-24	29-Jun-24	-508	WD(6d)	[Red bar from 19-Jun-24 to 29-Jun-24]																		
S20S2-7780.0	Bay No. 7b RC Structure - Base Slab	10	25-May-24	05-Jun-24	-524	WD(6d)	[Red bar from 25-May-24 to 05-Jun-24]																		
S20S2-7780.00	Bay No. 7a RC Structure - Base Slab	10	06-Jun-24	18-Jun-24	-524	WD(6d)	[Red bar from 06-Jun-24 to 18-Jun-24]																		
S20S2-7800.0	Bay No. 8b RC Structure - Base Slab	10	30-Apr-24	11-May-24	-540	WD(6d)	[Red bar from 30-Apr-24 to 11-May-24]																		
S20S2-7800.00	Bay No. 8a RC Structure - Base Slab	10	13-May-24	24-May-24	-540	WD(6d)	[Red bar from 13-May-24 to 24-May-24]																		
S20S2-7800.02	Bay No. 8b RC Structure - Wall & Top Slab	18	25-May-24	15-Jun-24	-540	WD(6d)	[Red bar from 25-May-24 to 15-Jun-24]																		
S20S2-7800.04	Bay No. 8a RC Structure - Wall & Top Slab	18	17-Jun-24	08-Jul-24	-540	WD(6d)	[Red bar from 17-Jun-24 to 08-Jul-24]																		
S20S2-7800.30	Bay No. 14 - Excavation, Waterproofing Membrane & 50mm Screeding To Roof Slab	60	22-Jun-24	31-Aug-24	-557	WD(6d)	[Red bar from 22-Jun-24 to 31-Aug-24]																		
S20S2-7842.02	Bay No. 15 - Remove Strut, Backfill & Waterproofing for 2nd Pour	28	08-Feb-24 A	30-Apr-24	-557	WD(6d)	[Red bar from 08-Feb-24 to 30-Apr-24]																		
S20S2-7842.10	Bay No. 15 - RC Structure 2nd Pour	42	02-May-24	21-Jun-24	-557	WD(6d)	[Red bar from 02-May-24 to 21-Jun-24]																		
S20S2-7842.12	Bay No. 15 - Remove Strut, Backfill & Waterproofing for 3rd Pour	24	22-Jun-24	20-Jul-24	-462	WD(6d)	[Red bar from 22-Jun-24 to 20-Jul-24]																		
S20S2-7850.02	Bay No. 16 - Remove Strut, Backfill & Waterproofing for 2nd Pour	24	08-Feb-24 A	30-Apr-24	-387	WD(6d)	[Red bar from 08-Feb-24 to 30-Apr-24]																		
S20S2-7850.10	Bay No. 16 - RC Structure 2nd Pour	42	02-May-24	21-Jun-24	-388	WD(6d)	[Red bar from 02-May-24 to 21-Jun-24]																		



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

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Data Date: 25-Mar-24

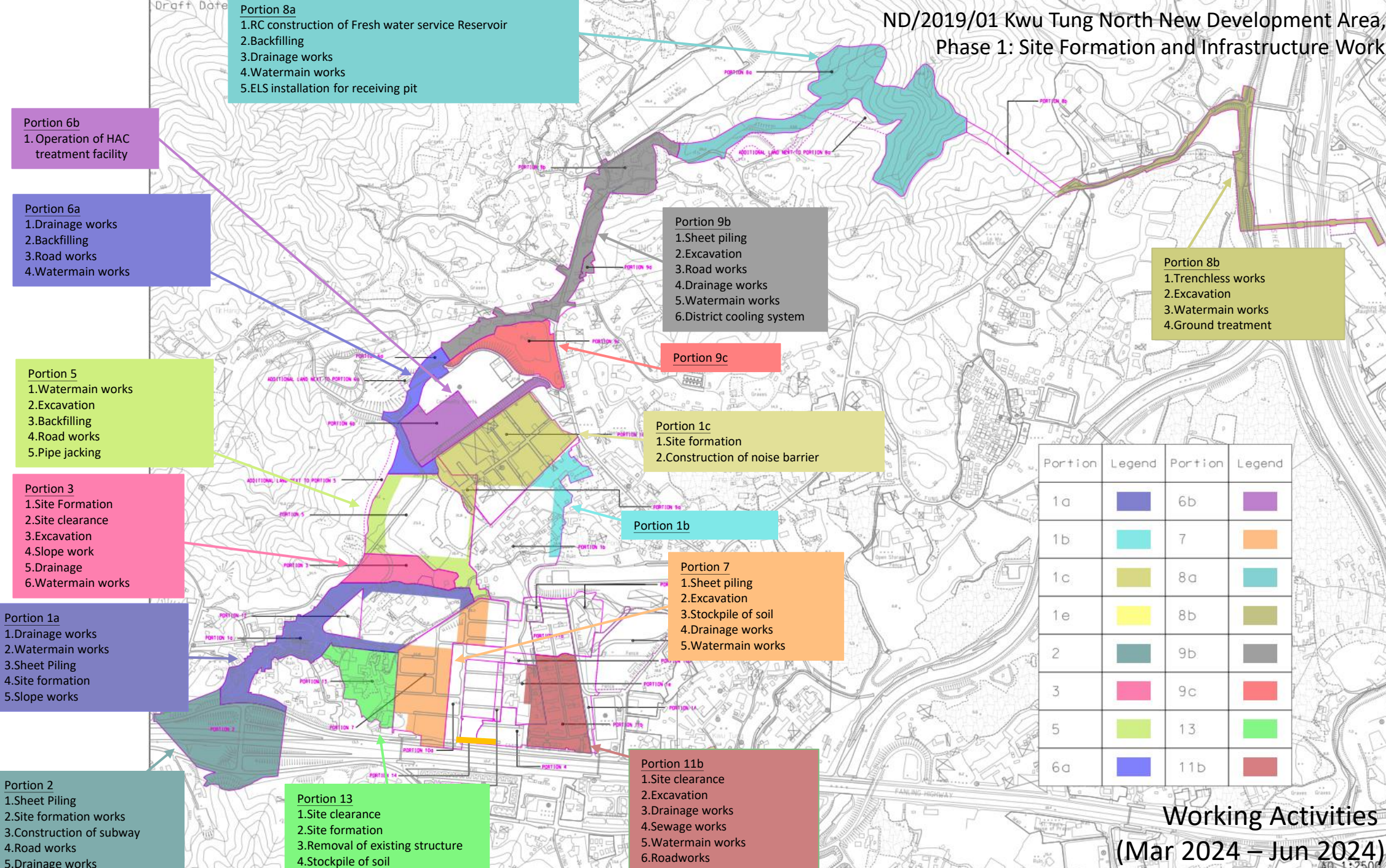
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ND/2019/01 Kwu Tung North New Development Area, Phase 1: Site Formation and Infrastructure Work



Portion 8a
 1.RC construction of Fresh water service Reservoir
 2.Backfilling
 3.Drainage works
 4.Watermain works
 5.ELS installation for receiving pit

Portion 6b
 1. Operation of HAC treatment facility

Portion 6a
 1.Drainage works
 2.Backfilling
 3.Road works
 4.Watermain works

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

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

Portion 5
 1.Watermain works
 2.Excavation
 3.Backfilling
 4.Road works
 5.Pipe jacking

Portion 9c

Portion 1c
 1.Site formation
 2.Construction of noise barrier

Portion 3
 1.Site Formation
 2.Site clearance
 3.Excavation
 4.Slope work
 5.Drainage
 6.Watermain works

Portion 1b

Portion 7
 1.Sheet piling
 2.Excavation
 3.Stackpile of soil
 4.Drainage works
 5.Watermain works

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

Portion 11b
 1.Site clearance
 2.Excavation
 3.Drainage works
 4.Sewage works
 5.Watermain works
 6.Roadworks

Portion 2
 1.Sheet Piling
 2.Site formation works
 3.Construction of subway
 4.Road works
 5.Drainage works

Portion 13
 1.Site clearance
 2.Site formation
 3.Removal of existing structure
 4.Stackpile of soil

Portion	Legend	Portion	Legend
1a	[Blue Box]	6b	[Purple Box]
1b	[Cyan Box]	7	[Orange Box]
1c	[Light Green Box]	8a	[Teal Box]
1e	[Yellow Box]	8b	[Olive Green Box]
2	[Dark Teal Box]	9b	[Grey Box]
3	[Pink Box]	9c	[Red Box]
5	[Light Green Box]	13	[Bright Green Box]
6a	[Blue Box]	11b	[Red Box]

Working Activities
 (Mar 2024 – Jun 2024)

Construction Programme of ND/2019/02

#	Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	TRA	2024															
								Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
1	Monthly Programme Update (Mar 2024) - ND-2019-02 KTNDA Phase 1							2526	03-Feb-2020 A	24-Jul-2026	0												
2	Contract Data							2317	03-Feb-2020 A	07-Jun-2026 A													
3	Date for commencement							14	03-Feb-2020 A	17-Feb-2020 A													
4	CD-1150	Contract Date (3 Feb 2020)	0	03-Feb-2020 A		0																	
5	CD-1160	Starting Date (17 Feb 2020)	0	17-Feb-2020 A		0																	
6	Access Dates							1555	18-Mar-2020 A	20-Jun-2024 A													
7	CD-1170	Portion 1 & 2 (90 days after Starting Date) (17 May 20)	0	03-Aug-2020 A		0																	
8	CD-1180	Portion 3, 4, 5, 8 & 9 (60 d after Starting Date) (17 Apr 20)	0	03-Aug-2020 A		0																	
9	CD-1190	Portion 6 (1585 d after Starting Date) (20 Jun 24) (accessed on 22 Jan 24)	0	20-Jun-2024 A		0																	
10	CD-1200	Portion 7, 10 & 11 (183 d after Starting Date) (18 Aug 20)	0	03-Aug-2020 A		0																	
11	CD-1210	WA 1 (365 d after Starting Date) (16 Feb 21)	0	30-Nov-2021 A		0																	
12	CD-1220	WA 2 (30 d after Starting Date) (18 Mar 20)	0	18-Mar-2020 A		0																	
13	Project Manager Latest Revised Completion Dates							1527	02-Apr-2022 A	07-Jun-2026 A													
14	The Whole of the Works							0	10-Jun-2025 A	10-Jun-2025 A													
15	CD-1300	Completion date for the whole of the works (1773 days after starting date) (25 Dec 24)	0	10-Jun-2025 A		0																	
16	Sectional Completion							1527	02-Apr-2022 A	07-Jun-2026 A													
17	CD-1240	Section1 (720 days after starting date) (6 Feb 22) - Works in P1	0	02-Apr-2022 A		0																	
18	CD-1250	Section2 (1773 days after starting date) (25 Dec 24) - Works in P2,3,4,5,6 & 7	0	10-Jun-2025 A		0																	
19	CD-1260	Section3 (1110 days after starting date) (3 Mar 23) - Works P8 & P9	0	12-Aug-2023 A		0																	
20	CD-1270	Section4 (1773 days after starting date) (25 Dec 24) - Works in P10	0	07-Jun-2025 A		0																	
21	CD-1280	Section4A (2138 days after starting date) (25 Dec 25) - Establishment Works in P1,2,3 & 4	0	07-Jun-2026 A		0																	
22	CD-1290	Section5 (1584 days after starting date) (19 Jun 24) - Works in P11	0	19-Jun-2024 A		0																	
23	Specified Parts of the works							0	08-Mar-2024 A	08-Mar-2024 A													
24	CD-1230	Portion10 (1323 days after starting date)- Works in P10 excl. switch back to permanent sewerage system	0	08-Mar-2024 A		0																	
25	Programme Data							2526	03-Feb-2020 A	24-Jul-2026	0												
26	Date for commencement							8	03-Feb-2020 A	17-Feb-2020 A													
27	PD1000	Contract Date (LOA:3 Feb 2020)	0	03-Feb-2020 A		0																	
28	PD1010	Starting Date (17 Feb 2020)	0	17-Feb-2020 A		0																	
29	Access Dates							1573	18-Mar-2020 A	20-Jun-2024 A													
30	PD1100	Portion 1 (90 days after Starting Date) (17 May 20)	0	03-Aug-2020 A		0																	
31	PD1105	Portion 2 (90 days after Starting Date) (17 May 20)	0	03-Aug-2020 A		0																	
32	PD1110	Portion 3 (60 d after Starting Date) (17 Apr 20)	0	03-Aug-2020 A		0																	
33	PD1112	Portion 4 (60 d after Starting Date) (17 Apr 20)	0	03-Aug-2020 A		0																	
34	PD1113	Portion 5 (60 d after Starting Date) (17 Apr 20)	0	16-Apr-2020 A		0																	
35	PD1114	Portion 8 (60 d after Starting Date) (17 Apr 20)	0	03-Aug-2020 A		0																	
36	PD1115	Portion 9 (60 d after Starting Date) (17 Apr 20)	0	03-Aug-2020 A		0																	
37	PD1120	Portion 6 (1585 d after Starting Date) (20 Jun 24) (accessed on 22 Jan 24)	0	20-Jun-2024 A		0																	
38	PD1130	Portion 7 (183 d after Starting Date) (18 Aug 20)	0	03-Aug-2020 A		0																	
39	PD1131	Portion 10 (183d after Starting Date) (18 Aug 20)	0	03-Aug-2020 A		0																	
40	PD1132	Portion 11 (183d after Starting Date) (18 Aug 20)	0	30-Nov-2020 A		0																	
41	PD1140	WA 1 (365 d after Starting Date) (16 Feb 21)	0	16-Feb-2023 A		0																	
42	PD1150	WA 2 (30 d after Starting Date) (18 Mar 20)	0	18-Mar-2020 A		0																	
43	Contractor Planned Completion Dates							1282	30-Nov-2022 A	20-May-2026	-296												
44	The Whole of the Works							0	01-Aug-2025	01-Aug-2025	0												
45	PD1020	Completion date for the whole of the works (1773 days after starting date) (25 Dec 24)	0	01-Aug-2025*		0																	
46	Sectional Completion							1282	30-Nov-2022 A	20-May-2026	-296												
47	PD1040	Section 1 (30 Nov 22) - Works in P1	0	30-Nov-2022 A		0																	
48	PD1050	Section 2 (1773 days after starting date) (25 Dec 24) - Works in P2,3,4,5,6 & 7	0	31-Dec-2025*		-101																	
49	PD1060	Section 3 (1110 days after starting date) (3 Mar 23) - Works P8 & P9	0	18-Jul-2024*		-184																	
50	PD1070	Section 4 (1773 days after starting date) (25 Dec 24) - Works in P10	0	27-May-2025*		39																	
51	PD1080	Section 4A (2138 days after starting date) (25 Dec 25) - Establishment Works in P1,2,3 & 4	0	20-May-2026*		-291																	
52	PD1090	Section 5 (1584 days after starting date) (19 Jun 24) - Works in P11	0	06-Jul-2025*		1																	
53	Specified Parts of the works							0	03-Jun-2024	03-Jun-2024	-34												
54	PD1030	Portion 10 (1323 days after starting date) - Works in P10 excl. switch back to permanent sewerage system	0	03-Jun-2024*		-34																	
55	Compensation Event and Project Manager Instruction							1033	25-Feb-2021 A	17-Jan-2024 A													
56	CE-017 Unforeseen Ground Condition At Footbridge FK2							0	25-Feb-2021 A	25-Feb-2021 A													
57	CE0017-1	CE-017 Unforeseen Ground Condition at Footbridge FK2	0	25-Feb-2021 A																			
58	CE-018 Unforeseen Ground Condition At Visitor Center							0	25-Feb-2021 A	25-Feb-2021 A													
59	CE0018-1	CE-018 Unforeseen Ground Condition at visitor Centre	0	25-Feb-2021 A																			
60	CE-023 Revised Alignment for Drainage and Sewerage Pipes outside Future CLP ESS Site							55	12-Apr-2021 A	31-May-2021 A													
61	CE0023-1	CE-023 Revised Alignment for Drainage and Sewerage Pipe Outside Future CLP ESS Site - PMI 009 received	0	12-Apr-2021 A																			
62	CE0023-2	CE-023 Revised Alignment for Drainage and Sewerage Pipe Outside Future CLP ESS Site	0	31-May-2021 A																			
63	CE-026 Stage 1 Advanced Works for Extension of Cycle Track Outside Dills Corner Garden							0	17-May-2021 A	05-Oct-2021 A													
64	CE0026-1	CE-026 Extension of Cycle Track Outside Dills Corner Garden - PMI 010 received	0	17-May-2021 A																			
65	CE0026-2	CE-026 Extension of Cycle Track Outside Dills Corner Garden	0	17-May-2021 A																			
66	CE-067 Revised Alignment for drainage at DSD maintenance access (SMH_KT6005A to OF 6013)							0	29-Sep-2021 A	29-Sep-2021 A													
67	CE0067-1	PMI 049 received	0	29-Sep-2021 A																			
68	CE-068 Revised Alignment for drainage at DSD maintenance access (FMH_KT1.33A to 1.37A)							0	29-Sep-2021 A	29-Sep-2021 A													
69	CE0068-1	PMI 050 received	0	29-Sep-2021 A																			
70	CE-071 Revised Alignment for Sewerage at Sheung Yue River (FMH_KT1.40A to 1.41A)							0	20-Oct-2021 A	20-Oct-2021 A													
71	CE0071-1	PMI 054 received	0	20-Oct-2021 A																			
72	CE-074 Revised Alignment for Sewerage at Sheung Yue River (FMH_KT1.38A to 1.40A)							0	26-Oct-2021 A	26-Oct-2021 A													
73	CE0074-1	PMI 056 received	0	26-Oct-2021 A																			
74	CE-075 Revised Alignment for Sewerage at Sheung Yue River (FMH_KT1.37A to 1.38A)							0	25-Oct-2021 A	25-Oct-2021 A													
75	CE0075-1	PMI 057 received	0	25-Oct-2021 A																			
76	CE-076 Revised Alignment for Sewerage at Sheung Yue River (FMH_KT1.41A to 1.48A)							0	24-Nov-2021 A	24-Nov-2021 A													
77	CE0076-1	PMI 058 received	0	24-Nov-2021 A																			

■ Primary Baseline
 ■ Critical Remaining Work
 ◆ Non-Critical Milestone
■ Actual Work
 ◆ Baseline Milestone
 ▶ Summary
■ Remaining Work
 ◆ Critical Milestone

Data Date: 29-Feb-2024
 Project Start: 03-Feb-2020
 Project End: 24-Jul-2026

4 Months Rolling Programme (Mar-Jun 2024)

Date	Revision	Checked	Approved
04-Apr-2024	0	RP	EW

#	Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	TRA	2024													
								Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
78	CE0-063	Construct the civil provisions of Footpath at Southern Footbridge FK2	0	23-Dec-2021 A	23-Dec-2021 A																
79	CE00063-1	PMI 045 received	0	23-Dec-2021 A																	
80	CE-120	DN200 Fresh Water Main from Castle Peak Road for Street Fire Hydrants and Visitor Centre	0	31-Jan-2023 A	31-Jan-2023 A																
81	CE00120-1	PMI 092 received	0	31-Jan-2023 A																	
82	CE-119	Revised Alignment for Sewerage along Castle Peak Road (between FMH_KT1.32A and KT1.33A)	0	03-Feb-2023 A	03-Feb-2023 A																
83	CE00119-1	PMI 091 received (From existing footbridge NF158 to the road junction of Castle Peak Road and SY River)	0	03-Feb-2023 A																	
84	CE-149	Monitoring System for Pipe Jacking Works	0	31-Jan-2023 A	31-Jan-2023 A																
85	CE00149-1	PMI 120 received	0	31-Jan-2023 A																	
86	CE-160	Additional Modification Works to match with Ho Sheung Heung Pai Lau	0	25-Feb-2023 A	25-Feb-2023 A																
87	CE00160-1	PMI 129 received	0	25-Feb-2023 A																	
88	CE-134	Additional Works at Kam Tsin Road	0	13-Mar-2023 A	13-Mar-2023 A																
89	CE00134-1	PMI 106 received	0	13-Mar-2023 A																	
90	CE-108	Revised Alignment for NS250 Gravity Sewer and Twin DN700 Rising Main along SY River/SS River	0	16-Mar-2023 A	16-Mar-2023 A																
91	CE00108-1	received to Minimize Impact to Existing Cycle Track - PMI 083	0	16-Mar-2023 A																	
92	CE-159	Additional Landscaping Works along the Verge of the Upper Berms of Shek Sheung River	0	20-Mar-2023 A	20-Mar-2023 A																
93	CE00159-1	PMI 128 received	0	20-Mar-2023 A																	
94	CE-123	Enlargement of Chambers and Addition of a Chamber of Twin DN700 Rising Mains	0	21-Mar-2023 A	21-Mar-2023 A																
95	CE00123-1	PMI 095 received to Suit Operation and Maintenance Requirement of DSD	0	21-Mar-2023 A																	
96	CE-177	Ground Investigation Works before Commencement of Pipe Jacking Works across SS River and MTRC	0	11-Apr-2023 A	11-Apr-2023 A																
97	CE00177-1	PMI 143 received	0	11-Apr-2023 A																	
98	CE-109	Additional Landscaping Works along the Verge of the Upper Berms of SY River and SS River	0	23-May-2023 A	23-May-2023 A																
99	CE00109-1	PMI 084 received	0	23-May-2023 A																	
100	CE-115	Revised Alignment for Sewerage along Castle Peak Road (between FMH_KT1.26A and FMH_KT1.32A)	0	31-May-2023 A	31-May-2023 A																
101	CE-00115-1	PMI 089 received	0	31-May-2023 A																	
102	CE-115a	Omission of Project Manager's Instruction No. 089 Revised Alignment for Sewerage along CPR	0	31-May-2023 A	31-May-2023 A																
103	CE00115a-1	PMI 089a received	0	31-May-2023 A																	
104	CE-051	Revised Welding Details of H-piles at Visitor Centre and Sewerage Pumping Station	0	09-Jun-2023 A	09-Jun-2023 A																
105	CE00051-1	PMI 035 received	0	09-Jun-2023 A																	
106	CE-124	Revised Arrangement of Manholes for NS250 Gravity Sewers	0	16-Jun-2023 A	16-Jun-2023 A																
107	CE00124-1	PMI 096	0	16-Jun-2023 A																	
108	CE-181	Provision of Temporary Noise Barrier at Castle Peak Road	0	26-Jun-2023 A	26-Jun-2023 A																
109	CE00181-1	PMI 146	0	26-Jun-2023 A																	
110	PMI-149	Construction of an Additional Jacking Pit (to be designed by the Contractor) near Dongjiang	0	07-Jul-2023 A	07-Jul-2023 A																
111	PMI00149-1	to Facilitate Trenchless Works across underneath SS River and MTRC East Rail Line - PMI 149 received	0	07-Jul-2023 A																	
112	CE-166	Additional Works for Long Valley Nature Centre to Suit Operation Requirement of AFCD and EMSD	0	19-Jul-2023 A	19-Jul-2023 A																
113	CE00166-1	PMI 132 received	0	19-Jul-2023 A																	
114	CE-163	CLP Late Inspection of the ELS Works at Carriageway adjacent to Sheung Yue River	0	21-Mar-2023 A	21-Mar-2023 A																
115	CE00163-1	PMI to be confirmed	0	21-Mar-2023 A																	
116	CE-057	Construction of Semi-circular Landing for Southern Ramp of Footbridge FK2	0	03-Aug-2023 A	03-Aug-2023 A																
117	CE00057-1	PMI 039 received	0	03-Aug-2023 A																	
118	PMI-155	Realignment of Twin DN700 Sewage Rising Mains from CHC 0.000 to CHC 87.024 and	0	16-Aug-2023 A	16-Aug-2023 A																
119	PMI00155-1	Trenchless Works for the Chainage from CHC 10.907 to CHC 69.412 - PMI 155 received	0	16-Aug-2023 A																	
120	CE-167	Installation of Smart Technology for Long Valley Nature Centre as requested by AFCD	0	17-Aug-2023 A	17-Aug-2023 A																
121	CE00167-1	PMI 133 received	0	17-Aug-2023 A																	
122	PMI-160	Revised Layout of Village Resite Area	0	25-Aug-2023 A	25-Aug-2023 A																
123	PMI00160-1	PMI-160 received	0	25-Aug-2023 A																	
124	CE-182	Additional Items for Kwu Tung North Sewage Pumping Station as Requested by DSD	0	28-Aug-2023 A	28-Aug-2023 A																
125	CE00182-1	PMI 147 received	0	28-Aug-2023 A																	
126	PMI-161	Revised Alignment for Sewerage along Castle Peak Road (between manholes KT1.26A and KT1.30A)	0	30-Aug-2023 A	30-Aug-2023 A																
127	PMI00161-1	PMI-161 received	0	30-Aug-2023 A																	
128	PMI-162	Revised Construction Details for Slope Reinstatement at Footbridge FK2	0	04-Sep-2023 A	04-Sep-2023 A																
129	PMI00162-1	PMI-162 received	0	04-Sep-2023 A																	
130	CE-201	Revised Construction Details for Slope Reinstatement at Footbridge FK2	0	11-Sep-2023 A	11-Sep-2023 A																
131	CE00201-1	PMI 166 received	0	11-Sep-2023 A																	
132	CE-156	Installation of 2 Smart-Ready Lampposts and Construction of Associated Civil Provision	0	26-Sep-2023 A	26-Sep-2023 A																
133	CE00156-1	Works at Northern Footway Ramp of Footbridge FK2 - PMI 126 received	0	26-Sep-2023 A																	
134	CE-200	Realignment of Twin DN700 Sewerage Rising Mains from CHC 0.000 to CHC 87.024 and	0	05-Oct-2023 A	05-Oct-2023 A																
135	CE-00200-1	Trenchless Works for the Chainage from CHC 10.907 to CHC 69.412 - PMI 165 received	0	05-Oct-2023 A																	
136	CE-191	Mitigation Works for Trees infested by Phaula Flammans at Portion WA2	0	18-Oct-2023 A	18-Oct-2023 A																
137	CE00191-1	PMI-154 received	0	18-Oct-2023 A																	
138	CE-196	Testing of DN1500 and DN2100 Concrete Jacking Pipes	0	10-Oct-2023 A	10-Oct-2023 A																
139	CE00196-1	PMI-159 received	0	10-Oct-2023 A																	
140	CE-194	Testing of DN1050, DN1200 and DN2100 Concrete Pipes	0	20-Oct-2023 A	20-Oct-2023 A																
141	CE00194-1	PMI-157 received	0	20-Oct-2023 A																	
142	PMI-173	Replacement of Type 2 Railing by Wooden Metal Wire Railing along existing DSD Main. Access	0	20-Oct-2023 A	20-Oct-2023 A																
143	CE00173-1	of Sheung Yue River and Shek Sheung River - PMI 173 received	0	20-Oct-2023 A																	
144	PMI-176	Replacement of Type 2 Railing by Wooden Metal Wire Railing and Replacement of Grasscrete	0	31-Oct-2023 A	31-Oct-2023 A																
145	PMI00176-1	Pavement by Concrete Pavement along Sheung Yue River and Shek Sheung River (outside boundary of ND/2019/02)	0	31-Oct-2023 A																	
146	PMI-175	Design and Construction of DSD Viewing Platform with Thematic Planting at Sheung Yue River	0	01-Nov-2023 A	01-Nov-2023 A																
147	PMI00175-1	PMI-175 received	0	01-Nov-2023 A																	
148	PMI-177	Outfall Beautification at Sheung Yue River (6013, 5100A, 5101, 5103, 5104, 5105)	0	02-Nov-2023 A	02-Nov-2023 A																
149	PMI00177-1	PMI-177 received	0	02-Nov-2023 A																	
150	CE-202	Revised Alignment for Sewerage along Castle Peak Road (between manholes KT1.26A and KT1.30A)	0	03-Nov-2023 A	03-Nov-2023 A																
151	CE00202-1	PMI 167 received	0	03-Nov-2023 A																	
152	PMI-179	Design of Artificial Rock Works for Outfall (6013, 5100A, 5101, 5103, 5104, 5105)	0	07-Nov-2023 A	07-Nov-2023 A																

■ Primary Baseline
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 ◆ Summary
■ Remaining Work
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Data Date: 29-Feb-2024
 Project Start: 03-Feb-2020
 Project End: 24-Jul-2026

4 Months Rolling Programme (Mar-Jun 2024)

Date	Revision	Checked	Approved
04-Apr-2024	0	RP	EW

#	Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	TRA	2024											
								Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
153	PMI00179-1	PMI-179 received	0	07-Nov-2023 A															
154	CE-219	Adjustments to Landscape Works in Long Valley Nature Centre to Suit the Requirements of AFCD	0	28-Nov-2023 A	28-Nov-2023 A														
155	CE00219-1	PMI 184 received	0	28-Nov-2023 A															
156	CE-165	Delay & Disruption of Works due to Temporary Suspension of Soil Disposal Works	0	30-Nov-2023 A	30-Nov-2023 A														
157	CE00165-1	for Facilitating the Celebration Event of Hung Shing Festival at Hung Shing Temple	0	30-Nov-2023 A															
158	CE-164	Delay & Disruption of Works due to Temporary Suspension of Soil Disposal Works	0	01-Dec-2023 A	01-Dec-2023 A														
159	CE00164-1	for Facilitating the Open Ceremony of Ho Sheung Heung Pai Lau	0	01-Dec-2023 A															
160	CE-213	Provision of Temporary Footpath at the Junction of Castle Peak Road/Pak Sau Road in Portion 1	0	01-Dec-2023 A	01-Dec-2023 A														
161	CE00213-1	to facilitate the Road User after Opening of Kwu Tung North Multi-welfare Services Complex - PMI 178 received	0	01-Dec-2023 A															
162	CE-070	Revised R.C. Details of Pile Caps and Wall Thickness at B/F of Visitor Centre	0	01-Dec-2023 A	01-Dec-2023 A														
163	CE-00070-1	PMI 053 received	0	01-Dec-2023 A															
164	CE-195	Construction of Additional Wall, Hose Reel Cabinet and CCTV Installation at MDF Room of LVNC	0	04-Dec-2023 A	04-Dec-2023 A														
165	CE00195-1	PMI 158 received	0	04-Dec-2023 A															
166	CE-175	Increase Spacing Between DN700 DI Pipes of Rising Main by Trenchless Method across SY River	0	06-Dec-2023 A	06-Dec-2023 A														
167	CE00175-1	PMI 141 received	0	06-Dec-2023 A															
168	CE-186	Additional Safety Measures to Facilitate the Diversion of Temporary Cycle Track and Footpath	0	06-Dec-2023 A	06-Dec-2023 A														
169	CE00186-1	PMI 151 received	0	06-Dec-2023 A															
170	CE-211	Submission of TPRP and Tree Felling Works in Drills Corner Garden	0	06-Dec-2023 A	06-Dec-2023 A														
171	CE00211-1	PMI 174 received	0	06-Dec-2023 A															
172	CE-091	Revised Alignment for Drainage along Castle Peak Road (between Manhole KT6002 and KT6004)	0	09-Dec-2023 A	09-Dec-2023 A														
173	CE00091-1	PMI No. 069 received	0	09-Dec-2023 A															
174	CE-174	Increase of Pipe Spacing Between DN700 DI Pipes Within Pipe Sleeve For Rising Main	0	17-Jan-2024 A	17-Jan-2024 A														
175	CE00174-1	Pipe Jacking Works Across Shek Sheung River (PMI No. 140)	0	17-Jan-2024 A															
176	CE-118	Revised Alignment for Drainage along Castle Peak Road (between Manhole KT6004 and KT6012)	0			0													
177	CE-220	Adjustments to Landscape Works in Long Valley Nature Centre to Suit the Requirements of AFCD	0			0													
178	CE-193	Provision of Metal Seated Gate Valve for Water Supply Pipeworks	0			0													
179		Preliminaries	2278	15-Feb-2020 A	24-Jul-2026	0													
180		Subletting	1078	15-Feb-2020 A	31-Aug-2023 A														
181	SC-0000	Preparation and submission of Sub-letting procedure (ACC Clause C9(6))	28	15-Feb-2020 A	13-Mar-2020 A	0													
182	SC-0010	Review of Sub-letting procedure by PM	14	13-Mar-2020 A	26-Mar-2020 A	0													
183	SC-0020	Resubmission of Sub-Letting Procedure	7	26-Mar-2020 A	01-Apr-2020 A	0													
184	SC-0030	Acceptance of Sub-Letting Procedure	14	01-Apr-2020 A	16-Apr-2020 A	0													
185		Consultancy Services	0	16-Jun-2020 A	14-Sep-2020 A														
186	DIA-1000	Award of consultant - Drainage Impact Assessment	0		26-Jun-2020 A	0													
187	ICE-1000	Award of consultant - Independent Checking Engineer	0		14-Sep-2020 A	0													
188	TTM-1000	Award of consultant - Temporary Traffic Management	0		16-Jun-2020 A	0													
189		Specialist Subcontractors	846	16-Jun-2020 A	31-Oct-2022 A														
190	SC-0035	Award of subcontract - Trial Pits and Inspection Pits	0		16-Jun-2020 A	0													
191	SC-0040	Award of subcontract - Utilities Detection	0		24-Jun-2020 A	0													
192	SC-0060	Award of subcontract - Landscape (incl. Tree Protection, Tree survey, etc)	0		26-Jun-2020 A	0													
193	SC-0070	Award of subcontract - Ground Investigation	0		28-Jul-2020 A	0													
194	SC-1075	Award of subcontract - E&M Works	0		06-Jan-2021 A	0													
195	SC-1080	Award of subcontract - Earthworks & Roadworks	0		16-Feb-2021 A	0													
196	SC-1085	Award of subcontract - Footbridge & Structure	0		19-Apr-2021 A	0													
197	SC-1090	Award of subcontract - Pipejacking (Section under PMI-009)	0		28-Jul-2021 A	0													
198	SC-1095	Award of subcontract - Structural Design for Pai Lau	0		30-Sep-2021 A	0													
199	SC-1100	Award of subcontract - Bearing and MJ at Footbridge	0		08-Oct-2021 A	0													
200	SC-1105	Award of subcontract - Waterproofing	0		23-Nov-2021 A	0													
201	SC-1115	Award of subcontract - Lift Installation at Visitor Center	0		07-Dec-2021 A	0													
202	SC-1160	Award of subcontract - Pai Lau Construction	0		07-Dec-2021 A	0													
203	SC-1180	Award of subcontract - Dewatering Works for SPS	0		16-Dec-2021 A	0													
204	SC-1190	Award of subcontract - Specialist for lighting proposal at KT1.40A to KT1.41A	0		21-Mar-2022 A	0													
205	SC-1205	Award of subcontract - Construction of Temporary Sewerage System	0		30-Aug-2022 A	0													
206	SC-1210	Award of subcontract - Grout Curtain of SPS	0		23-Aug-2022 A	0													
207	SC-1215	Award of subcontract - Hard Landscape	0		31-Oct-2022 A	0													
208	SC-1220	Award of subcontract - Soft Landscape	0		31-Oct-2022 A	0													
209		ABWF	184	08-Sep-2022 A	31-Mar-2023 A														
210		Package 1 - Gold Success	0	02-Dec-2022 A	02-Dec-2022 A														
211	SC-1195-1	Award of subcontract - ABWF works (Package 1 - Int / Ext Finishes, Brickwork and Plastering)	0		02-Dec-2022 A	0													
212		Package 2 - Gold Success	0	02-Dec-2022 A	02-Dec-2022 A														
213	SC-1195-2	Award of subcontract - ABWF works (Package 2 - Painting)	0		02-Dec-2022 A	0													
214		Package 3 - Sanway	0	08-Sep-2022 A	08-Sep-2022 A														
215	SC-1195-137	Award of subcontract - ABWF works (Package 3 - Timber Deck)	0		08-Sep-2022 A	0													
216	SC-1195-147	Award of subcontract - ABWF works (Package 3 - Suspended Ceiling)	0		08-Sep-2022 A	0													
217	SC-1195-157	Award of subcontract - ABWF works (Package 3 - Raised Floor)	0		08-Sep-2022 A	0													
218	SC-1195-167	Award of subcontract - ABWF works (Package 3 - Plastic laminate wall panel)	0		08-Sep-2022 A	0													
219	SC-1195-177	Award of subcontract - ABWF works (Package 3 - Thermal Insulation Board)	0		08-Sep-2022 A	0													
220	SC-1195-187	Award of subcontract - ABWF works (Package 3 - Glass Wall)	0		08-Sep-2022 A	0													
221	SC-1195-197	Award of subcontract - ABWF works (Package 3 - Movable Partition)	0		08-Sep-2022 A	0													
222		Package 4 - Sanway	0	02-Dec-2022 A	02-Dec-2022 A														
223	SC-1195-4	Award of subcontract - ABWF works (Package 4 - Timber Door)	0		02-Dec-2022 A	0													
224	SC-1195-67	Award of subcontract - ABWF works (Package 4 - Fitting and fixtures)	0		02-Dec-2022 A	0													
225		Package 5 - De Heng	0	22-Nov-2022 A	22-Nov-2022 A														
226	SC-1195-50	Award of subcontract - ABWF works (Package 5 - Window)	0		22-Nov-2022 A	0													
227	SC-1195-51	Award of subcontract - ABWF works (Package 5 - Aluminium Grilles)	0		22-Nov-2022 A	0													
228	SC-1195-52	Award of subcontract - ABWF works (Package 5 - Louvre)	0		22-Nov-2022 A	0													
229		Package 6	0	31-Mar-2023 A	31-Mar-2023 A														

■ Primary Baseline
 ■ Critical Remaining Work
 ◆ Non-Critical Milestone
■ Actual Work
 ◆ Baseline Milestone
 ◆ Summary
■ Remaining Work
 ◆ Critical Milestone

Data Date: 29-Feb-2024
 Project Start: 03-Feb-2020
 Project End: 24-Jul-2026

4 Months Rolling Programme (Mar-Jun 2024)

Date	Revision	Checked	Approved
04-Apr-2024	0	RP	EW

#	Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	TRA	2024											
								Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
230	SC-1195-107	Award of subcontract - ABWF works (Package 6 - Fences, Handrail, Guardrail, Parapet & Gate)	0		31-Mar-2023 A														
231	SC-1195-117	Award of subcontract - ABWF works (Package 6 - Roller Shutter)	0		31-Mar-2023 A														
232	SC-1195-207	Award of subcontract - ABWF works (Package 6 - Steel Door)	0		31-Mar-2023 A														
233	SC-1195-6	Award of subcontract - ABWF works (Package 6 - Skylight)	0		31-Mar-2023 A														
234	SC-1195-87	Award of subcontract - ABWF works (Package 6 - Fall Arrest System)	0		31-Mar-2023 A														
235	SC-1195-97	Award of subcontract - ABWF works (Package 6 - Sundries Metal Works)	0		31-Mar-2023 A														
236	Package 7 - Jibpool		0	22-Dec-2022 A	22-Dec-2022 A														
237	SC-1195-7	Award of subcontract - ABWF works (Package 7 - Toilet Cubicles and Shower Cubicles)	0		22-Dec-2022 A														
238	Others		836	29-Apr-2021 A	31-Aug-2023 A														
239	SC-0090	CE-023 Subletting for Pipejacking (Phase 1)	90	29-Apr-2021 A	28-Jul-2021 A														
240	SC-1185	Award of subcontract - Pipe jacking phase 2 (VTECH)	0		23-Feb-2022 A														
241	SC-1230	Award of subcontract - Pipe jacking phase 3 (Portion 4,5,6) - Yee Hop	0		30-Nov-2022 A														
242	SC-1240	Award of subcontract - Rising Main Construction (CHA 1028 to 1735) (Excl. CHA 1250 to 1298)	0		30-Nov-2022 A														
243	SC-1250	Award of subcontract - Ground Investigation Works of Portion 11	0		31-Aug-2023 A														
244	Statutory Submission		1333	27-Apr-2020 A	11-May-2024	818													
245	HyD		743	27-Apr-2020 A	15-Sep-2022 A														
246	XP-1000	Capital works excavation permit (CWXP) application for Portion 1 & 2	160	27-Apr-2020 A	01-Aug-2020 A	0													
247	XP-1010	Excavation permit (XP) application for Portion 4	90	31-Mar-2022 A	23-May-2022 A	0													
248	XP-1020	Excavation permit (XP) application for Portion 5	113	18-Jun-2022 A	15-Sep-2022 A	0													
249	XP-1030	Excavation permit (XP) application for Portion 8	113	18-Jun-2022 A	15-Sep-2022 A	0													
250	DSD		89	30-Aug-2020 A	31-Aug-2020 A														
251	DSD-1000	Preparation and submission of Construction Drainage Impact Assessment (CDIA)	14	30-Aug-2020 A	31-Aug-2020 A	0													
252	DSD-1010	Review and comment by PM	14	30-Aug-2020 A	31-Aug-2020 A	0													
253	DSD-1020	Submission to DSD	60	30-Aug-2020 A	31-Aug-2020 A	0													
254	DSD-1030	Re-submission to DSD	28	30-Aug-2020 A	31-Aug-2020 A	0													
255	MTRC		593	21-Mar-2022 A	11-May-2024	818													
256	Method Statement Submission and Approval		593	21-Mar-2022 A	11-May-2024	818													
257	MTRC-0700	Preparation of Method Statement for pipe laying work of rising main nearby MTRC area (MS-659)	17	21-Mar-2022 A	09-Apr-2022 A	0													
258	MTRC-0800	Submission and Review of Method Statement for pipe laying work of rising main nearby MTRC area	14	11-Apr-2022 A	28-Apr-2022 A	0													
259	MTRC-0900	Re-submission and Approval of Method Statement for pipe laying work of rising main nearby MTRC area	21	03-Oct-2022 A	27-Oct-2022 A	0													
260	MTRC-1000	Preparation of Method Statement for pipe jacking work underneath East Rail Line	30	02-Jan-2024 A	29-Jan-2024 A	0													
261	MTRC-1010	Approval of Method Statement for pipe jacking work underneath East Rail Line	42	29-Feb-2024	12-Apr-2024	-183													
262	MTRC-1020	Preparation of material and plants for pipe jacking work underneath East Rail Line	30	29-Feb-2024*	27-Mar-2024	818													
263	MTRC-1030	Approval of material and plants for pipe jacking work underneath East Rail Line	42	28-Mar-2024	11-May-2024	818													
264	MTRC-1040	Preparation of contingency plan for pipe jacking work underneath East Rail Line	30	29-Feb-2024*	27-Mar-2024	818													
265	MTRC-1050	Approval of contingency plan for pipe jacking work underneath East Rail Line	42	28-Mar-2024	11-May-2024	818													
266	MTRC-1060	Preparation of Method Statement for manhole construction work underneath East Rail Line	30	29-Feb-2024*	27-Mar-2024	818													
267	MTRC-1070	Approval of Method Statement for manhole construction work underneath East Rail Line	42	28-Mar-2024	11-May-2024	818													
268	Pre-condition Survey & Report		28	30-Nov-2023 A	28-Dec-2023 A														
269	MTRC-1110	Preparation of Pre-condition Survey report before construction work underneath East Rail Line	14	30-Nov-2023 A	13-Dec-2023 A	0													
270	MTRC-1120	Approval of Pre-condition report before construction work underneath East Rail Line	14	13-Dec-2023 A	28-Dec-2023 A	0													
271	Notification of commencement of works		60	01-Dec-2023 A	15-Jan-2024 A														
272	MTRC-1130	Preparation and Submission of Written Notice to MTRCL for the notification of commencement of works	60	01-Dec-2023 A	15-Jan-2024 A	0													
273	TPRP		480	17-May-2021 A	14-Sep-2022 A														
274	TPRP-1010	TPRP Submission for CE-026 - 1st submission & review	90	17-May-2021 A	22-May-2021 A														
275	TPRP-1020	TPRP Submission for CE-026 - response to comment and resubmission	14	23-May-2021 A	31-May-2021 A														
276	TPRP-1030	TPRP Submission for CE-026 - 2nd submission & approval	21	01-Jun-2021 A	21-Jun-2021 A														
277	TPRP-1040	Tree Felling Proposal Submission and Approval for FMH1.30A (CSF-477)	232	07-Dec-2021 A	12-Aug-2022 A	0													
278	TPRP-1050	Tree Felling (26 nos)	24	22-Aug-2022 A	14-Sep-2022 A	0													
279	BIM Submission		1676	19-Oct-2020 A	02-Aug-2025	357													
280	BIM1000	Submission of Execution Plan	0	19-Oct-2020 A															
281	BIM1010	1st Review and Comment by PM	18	20-Oct-2020 A	04-Nov-2020 A														
282	BIM1020	Re-submission of Execution Plan	18	05-Nov-2020 A	23-Nov-2020 A														
283	BIM1030	2nd Review and Comment by PM	18	26-Nov-2020 A	14-Dec-2020 A														
284	BIM1040	Preparation and Submission of Initial BIM Model	18	02-Dec-2020 A	17-Dec-2020 A														
285	BIM1045	Preparation and Submission of BIM Model for Bar Bending Schedule	704	30-Oct-2021 A	15-May-2024	43													
286	BIM1047	Preparation and Submission of BIM Model for updating CSD and CBWD	1054	01-Nov-2021 A	20-Nov-2024	90													
287	BIM1050	Submission of Fully Coordinated BIM Model (As-built)	0	02-Aug-2025		357													
288	Site Offices & Preliminaries		1214	18-Mar-2020 A	24-Jul-2026	0													
289	Temporary office for RE		1006	18-Mar-2020 A	24-Jul-2025	5													
290	SP-1000a	Erection of container office in WA2	7	18-Mar-2020 A	24-Mar-2020 A	0													
291	SP-1000b	Maintenance of WA2 container office until removal	0	30-Sep-2020 A		0													
292	SP-1000c	Removal of container office in WA2	0		24-Jul-2025*	5													
293	Temporary office for Contractor		718	16-Feb-2023 A	24-Jul-2026	0													
294	SP-1010a	Erection of container office in WA1	90	16-Feb-2023 A	16-May-2023 A	0													
295	SP-1010b	Maintenance of WA1 container office until removal	0	17-May-2023 A		0													
296	SP-1010c	Removal of container office in WA1	0		24-Jul-2026*	0													
297	Tree Survey		121	03-Jul-2020 A	13-Jan-2021 A														
298	TS-1000	Tree Survey Works - Preparation of Document	14	03-Jul-2020 A	25-Aug-2020 A	0													
299	TS-1010	Tree Survey Works - Submission to Project Manager (PM)	28	26-Aug-2020 A	21-Sep-2020 A	0													
300	TS-1020	Tree Survey Works - Re-submission to PM	30	22-Sep-2020 A	30-Oct-2020 A	0													
301	TS-1030	Tree Survey Works - Submission to EPD by PM	60	02-Nov-2020 A	13-Jan-2021 A	0													
302	Contractor's Design		2037	06-Nov-2020 A	22-Feb-2023 A														
303	Temporary Works Design		2037	06-Nov-2020 A	22-Feb-2023 A														
304	Footbridge FK2		642	06-Nov-2020 A	22-Feb-2023 A														
305	ELS Design		21	06-Nov-2020 A	28-Sep-2021 A														
306	TWD-1120	ELS Design - 1st submission to PM & review	21	06-Nov-2020 A	21-Dec-2020 A														
307	TWD-1130	ELS Design - Review and Resubmission	14	22-Dec-2020 A	30-Jan-2021 A														

█ Primary Baseline
 █ Critical Remaining Work
 ◆ Non-Critical Milestone
█ Actual Work
 ◆ Baseline Milestone
 █ Summary
█ Remaining Work
 ◆ Critical Milestone

Data Date: 29-Feb-2024
 Project Start: 03-Feb-2020
 Project End: 24-Jul-2026

4 Months Rolling Programme (Mar-Jun 2024)

Date	Revision	Checked	Approved

#	Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	TRA	2024													
								Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
308	TWD-1140	ELS Design - 2nd submission to PM & Approval	21	23-Jun-2021 A	28-Sep-2021 A																
309	Formwork Design (Abutment Wall) - CSF475		52	03-Nov-2021 A	22-Jan-2022 A																
310	TWD-1150	Formwork and Falsework Design (FK2 Abutment) - 1st submission to PM & review	21	03-Nov-2021 A	15-Nov-2021 A																
311	TWD-1160	Formwork and Falsework Design (FK2 Abutment) - Review and Resubmission	14	16-Nov-2021 A	29-Nov-2021 A																
312	TWD-1170	Formwork and Falsework Design (FK2 Abutment) - 2nd submission to PM & Approval	21	30-Nov-2021 A	22-Jan-2022 A																
313	Formwork Design (Bridge Pier) - CSF576		70	19-Feb-2022 A	06-Jul-2022 A																
314	TWD-1310	Formwork and Falsework Design (Bridge Pier) - 1st submission to PM & review	11	19-Feb-2022 A	02-Mar-2022 A																
315	TWD-1320	Formwork and Falsework Design (Bridge Pier) - Review and Resubmission	24	03-Mar-2022 A	16-Mar-2022 A																
316	TWD-1330	Formwork and Falsework Design (Bridge Pier) - 2nd submission to PM & Approval	11	08-Jun-2022 A	06-Jul-2022 A																
317	Falsework Design (End Bridge Deck) - CSF584		117	07-Mar-2022 A	21-Jul-2022 A																
318	TWD-1340	Falsework Design (Bridge Deck) - 1st submission to PM & review	17	07-Mar-2022 A	23-Mar-2022 A																
319	TWD-1350	Falsework Design (Bridge Deck) - Review and Resubmission	24	24-Mar-2022 A	18-Apr-2022 A																
320	TWD-1360	Falsework Design (Bridge Deck) - 2nd submission to PM & Approval	16	06-Jul-2022 A	21-Jul-2022 A																
321	Falsework Design (Mid Span Bridge Deck) - CSF894		251	21-Jun-2022 A	22-Feb-2023 A																
322	TWD-1400	Falsework Design (Bridge Deck) - 1st submission to PM	17	21-Jun-2022 A	08-Jul-2022 A																
323	TWD-1405	Falsework Design (Bridge Deck) - 1st round PM comment	27	09-Jul-2022 A	05-Aug-2022 A																
324	TWD-1410	Falsework Design (Bridge Deck) - Review and Resubmission	24	03-Jan-2023 A	30-Jan-2023 A																
325	TWD-1420	Falsework Design (Bridge Deck) - 2nd round submission to PM & Approval	24	31-Jan-2023 A	22-Feb-2023 A																
326	Sewage Pumping Station		1988	29-Jun-2021 A	09-Nov-2022 A																
327	ELS Design		1988	29-Jun-2021 A	09-Nov-2022 A																
328	TWD-1000	ELS Design - 1st submission to PM & review	21	29-Jun-2021 A	14-Jul-2021 A																
329	TWD-1010	ELS Design - Review and Resubmission	27	15-Jul-2021 A	27-Aug-2021 A																
330	TWD-1020	ELS Design - 2nd submission to PM & review	21	28-Aug-2021 A	10-Sep-2021 A																
331	TWD-1025	ELS Design - 3rd submission to PM & Approval	18	11-Sep-2021 A	29-Sep-2021 A																
332	TWD-1450	ELS Design - submission of Design Review for Early Strut Removal of Early Construction of Valve Chamber wall	19	29-Aug-2022 A	16-Sep-2022 A																
333	TWD-1460	ELS Design - submission of ICE19F for Early Strut Removal of Early Construction of Valve Chamber wall	54	17-Sep-2022 A	09-Nov-2022 A																
334	Formwork Design (CSF 675)		96	01-Apr-2022 A	09-Jul-2022 A																
335	TWD-1030	Column Formwork and Falsework Design - 1st submission to PM & review	19	01-Apr-2022 A	19-Apr-2022 A																
336	TWD-1040	Column Formwork and Falsework Design - Review and Resubmission	51	20-Apr-2022 A	09-Jun-2022 A																
337	TWD-1050	Column Formwork and Falsework Design - 2nd submission to PM & Approval	30	10-Jun-2022 A	09-Jul-2022 A																
338	Visitor Centre		299	29-Jun-2021 A	24-May-2022 A																
339	ELS Design - CSF273		72	29-Jun-2021 A	29-Sep-2021 A																
340	TWD-1060	ELS Design - 1st submission to PM & review	21	29-Jun-2021 A	12-Jul-2021 A																
341	TWD-1070	ELS Design - Review and Resubmission	14	13-Jul-2021 A	24-Sep-2021 A																
342	TWD-1080	ELS Design - 2nd submission to PM & Approval	18	25-Sep-2021 A	29-Sep-2021 A																
343	Vertical Blinding Design - CSF439		49	31-Dec-2021 A	11-Feb-2022 A																
344	TWD-1280	Formwork Design for Vertical Blinding - 1st submission to PM & review	21	31-Dec-2021 A	21-Jan-2022 A																
345	TWD-1290	Formwork Design for Vertical Blinding - Review and Approval	7	22-Jan-2022 A	11-Feb-2022 A																
346	Single Side Formwork Design for Base slab - CSF454		92	04-Jan-2022 A	28-Jan-2022 A																
347	TWD-1090	Formwork and Falsework Design - 1st submission to PM & review	21	04-Jan-2022 A	12-Jan-2022 A																
348	TWD-1100	Formwork and Falsework Design - Review and Resubmission	7	13-Jan-2022 A	27-Jan-2022 A																
349	TWD-1110	Formwork and Falsework Design - 2nd submission to PM & Approval	14	28-Jan-2022 A	28-Jan-2022 A																
350	Formwork Design for Superstructure - CSF598		65	25-Feb-2022 A	24-May-2022 A																
351	TWD-1370	Formwork and Falsework Design - 1st submission to PM & review	14	25-Feb-2022 A	04-Mar-2022 A																
352	TWD-1380	Formwork and Falsework Design - Review and Resubmission	21	05-Mar-2022 A	22-Apr-2022 A																
353	TWD-1390	Formwork and Falsework Design - 2nd submission to PM & Approval	14	18-Apr-2022 A	24-May-2022 A																
354	Pipeworks		100	01-Jun-2021 A	17-Aug-2021 A																
355	TWD-1180	ELS Design - 1st submission to PM & review	21	01-Jun-2021 A	15-Jun-2021 A																
356	TWD-1185	ELS Design - Review and Resubmission	7	16-Jun-2021 A	19-Jul-2021 A																
357	TWD-1187	ELS Design - 2nd submission to PM & Approval	21	20-Jul-2021 A	17-Aug-2021 A																
358	3m Dia. Drain (CSF 828 & 834)		43	21-May-2022 A	06-Jul-2022 A																
359	TWD-1430	ELS Design - 1st submission to PM & review	21	21-May-2022 A	15-Jun-2022 A																
360	TWD-1440	ELS Design - Review and Approval	17	16-Jun-2022 A	06-Jul-2022 A																
361	CE-026 Extension of Cycle Track outside Dills Corner Garden		52	01-Aug-2021 A	05-Oct-2021 A																
362	TWD-1240	Preparation of Design for Extension of Cycle Track Outside Dills Corner Garden	28	01-Aug-2021 A	10-Aug-2021 A																
363	TWD-1250	Design for Extension of Cycle Track Outside Dills Corner Garden - 1st submission to PM & review	21	11-Aug-2021 A	13-Sep-2021 A																
364	TWD-1260	Design for Extension of Cycle Track Outside Dills Corner Garden - review and resubmission	14	14-Sep-2021 A	22-Sep-2021 A																
365	TWD-1270	Design for Extension of Cycle Track Outside Dills Corner Garden - 2nd submission to PM & Approval	21	23-Sep-2021 A	05-Oct-2021 A																
366	E&M Submission		1068	13-Nov-2021 A	03-Oct-2024	670															
367	Visitor Centre		845	13-Nov-2021 A	26-Mar-2024	862															
368	BS Shop Drawings Submission (Visitor Centre)		809	13-Nov-2021 A	26-Mar-2024	862															
369	CSD/ CBWD		809	13-Nov-2021 A	26-Mar-2024	862															
370	CSD		809	13-Nov-2021 A	26-Mar-2024	862															
371	Basement (CSF 495)		327	13-Nov-2021 A	03-Oct-2022 A																
372	CSD-VC1000	CSD Preparation and submission for Visitor Centre (Rev.0)	60	13-Nov-2021 A	13-Jan-2022 A	0															
373	CSD-VC1010	PM review & 1st round comment	12	14-Jan-2022 A	26-Jan-2022 A	0															
374	CSD-VC1020	CSD Preparation and submission for Visitor Centre (Rev.1)	55	27-Jan-2022 A	04-Apr-2022 A	0															
375	CSD-VC1030	PM review & 2nd round comment	17	06-Apr-2022 A	25-Apr-2022 A	0															
376	CSD-VC1040	CSD Preparation and submission for Visitor Centre (Rev.2)	93	26-Apr-2022 A	15-Aug-2022 A	0															
377	CSD-VC1050	PM review & 3rd round comment	13	16-Aug-2022 A	31-Aug-2022 A	0															
378	CSD-VC1100	CSD Preparation and submission for Visitor Centre (Rev.3)	21	31-Aug-2022 A	20-Sep-2022 A	0															
379	CSD-VC1110	PM review & 4th round comment	13	20-Sep-2022 A	03-Oct-2022 A	0															
380	G/F (CSF 758)		803	19-Mar-2022 A	12-Dec-2023 A																
381	CSD-VC1060	CSD Preparation and submission for Visitor Centre (Rev.0)	60	19-Mar-2022 A	19-May-2022 A	0															
382	CSD-VC1070	PM review & 1st round comment	16	20-May-2022 A	08-Jun-2022 A	0															
383	CSD-VC1080	CSD Preparation and submission for Visitor Centre (Rev.1)	63	09-Jun-2022 A	22-Aug-2022 A	0															
384	CSD-VC1090	PM review & 2nd round comment	17	23-Aug-2022 A	10-Sep-2022 A	0															
385	CSD-VC1120	CSD Preparation and submission for Visitor Centre (Rev.2)	24	01-Dec-2022 A	23-Dec-2022 A	0															

■ Primary Baseline
 ■ Critical Remaining Work
 ◆ Non-Critical Milestone

#	Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	TRA	2024											
								Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
542	Mechanical raked bar screen (36wks)		359	01-Mar-2023 A	16-Nov-2023 A			Mechanical raked bar screen (36wks)											
543	SWP-SPS1320	Material Submission - Mechanical raked bar screen	22	01-Mar-2023 A	21-Mar-2023 A		0												
544	SWP-SPS1330	Mechanical raked bar screen - 1st round comment by PM & review	24	21-Mar-2023 A	17-Apr-2023 A		0												
545	SWP-SPS1340	Mechanical raked bar screen - 2nd submission to PM & approval	20	17-Apr-2023 A	18-May-2023 A		0												
546	SWP-SPS1350	Procurement & Delivery of Mechanical raked bar screen (36wks)	188	18-May-2023 A	16-Nov-2023 A		0												
547	LMCP for Deodourisation System (36wks)		272	01-Sep-2023 A	20-Jun-2024	87		20-Jun-2024, LMCP for Deodourisation System (36wks)											
548	SWP-SPS1360	Material Submission - LMCP for Deodourisation System	22	01-Sep-2023 A	21-Sep-2023 A		0												
549	SWP-SPS1370	LMCP for Deodourisation System - 1st round comment by PM & review	24	21-Sep-2023 A	16-Oct-2023 A		0												
550	SWP-SPS1380	LMCP for Deodourisation System - 2nd submission to PM & approval	20	16-Oct-2023 A	22-Nov-2023 A		0												
551	SWP-SPS1390	Procurement & Delivery of LMCP for Deodourisation System (36wks)	188	22-Nov-2023 A	20-Jun-2024	87	0												
552	DI Pipe and fittings (30 wks)		557	01-Apr-2023 A	03-Oct-2024 A			03-Oct-2024 A, DI Pipe and fittings (30 wks)											
553	SWP-SPS1080	Material Submission - DI Pipe and fittings	22	01-Apr-2023 A	26-Apr-2023 A		0												
554	SWP-SPS1090	DI Pipe and fittings - PM review, comment and or approval	1	03-May-2023 A	03-May-2023 A		0												
555	SWP-SPS1110	Procurement & Delivery of DI Pipe and fittings (30wks)	157	04-May-2024 A	03-Oct-2024 A		0												
556	Penstock and Stop Log (30wks)		530	23-Mar-2023 A	16-Sep-2023 A														
557	SWP-SPS1120	Material Submission - Penstock and Stop Log	22	23-Mar-2023 A	17-Apr-2023 A		0												
558	SWP-SPS1130	Penstock and Stop Log - PM review, comment and or approval	1	19-Apr-2023 A	19-Apr-2023 A		0												
559	SWP-SPS1150	Procurement & Delivery of Penstock and Stop Log(30 wks)	157	19-Apr-2023 A	16-Sep-2023 A		0												
560	Deodourisation System (30wks) (CSF-1094)		623	19-Sep-2022 A	19-Jun-2024	88		19-Jun-2024, Deodourisation System (30wks) (CSF-1094)											
561	SWP-SPS1200	Material Submission - Deodourisation System	23	19-Sep-2022 A	18-Oct-2022 A		0												
562	SWP-SPS1210	Deodourisation System - 1st round comment by PM & review	27	19-Oct-2022 A	18-Nov-2022 A		0												
563	SWP-SPS1220	Deodourisation System - 2nd submission to PM & approval	21	30-Nov-2023 A	19-Dec-2023 A		0												
564	SWP-SPS1230	Procurement & Delivery of Deodourisation System (30wks)	157	19-Dec-2023 A	19-Jun-2024	88	0												
565	Odour Ductwork (30wks)		283	23-Dec-2023 A	02-Oct-2024	-73		02-Oct-2024, Odour Ductwork (30wks)											
566	SWP-SPS1240	Material Submission - Odour Ductwork	22	23-Dec-2023 A	18-Mar-2024	-73	0												
567	SWP-SPS1250	Odour Ductwork - 1st round comment by PM & review	24	18-Mar-2024	13-Apr-2024	-73	0												
568	SWP-SPS1260	Odour Ductwork - 2nd submission to PM & approval	19	13-Apr-2024	02-May-2024	-73	0												
569	SWP-SPS1270	Procurement & Delivery of Odour Ductwork (30wks)	157	02-May-2024	02-Oct-2024	-73	0												
570	Sensors and Instruments (30wks)		238	08-May-2023 A	31-Oct-2023 A			Sensors and Instruments (30wks)											
571	SWP-SPS1280	Material Submission - Sensors and Instruments	22	08-May-2023 A	31-May-2023 A		0												
572	SWP-SPS1290	Sensors and Instruments - PM review, comment and or approval	1	31-May-2023 A	31-May-2023 A		0												
573	SWP-SPS1310	Procurement & Delivery of Sensors and Instruments (30wks)	157	01-Jun-2023 A	31-Oct-2023 A		0												
574	Chemical Dosing System (30wks)		190	03-Nov-2023 A	17-Jul-2024	93		17-Jul-2024, Chemical Dosing System (30wks)											
575	SWP-SPS1520	Material Submission - Chemical Dosing System	22	03-Nov-2023 A	23-Nov-2023 A		0												
576	SWP-SPS1530	Chemical Dosing System - 1st round comment by PM & review	1	27-Nov-2023 A	27-Nov-2023 A		0												
577	SWP-SPS1540	Chemical Dosing System - 2nd submission to PM & approval	19	10-Jan-2024 A	19-Jan-2024 A		0												
578	SWP-SPS1550	Procurement & Delivery of Chemical Dosing System (30wks)	157	19-Jan-2024 A	17-Jul-2024	93	0												
579	A-frame (20wks)		234	23-Dec-2023 A	14-Aug-2024	30		14-Aug-2024, A-frame (20wks)											
580	SWP-SPS1440	Material Submission - A-frame	22	23-Dec-2023 A	18-Mar-2024	30	0												
581	SWP-SPS1450	A-frame - 1st round comment by PM & review	27	19-Mar-2024	17-Apr-2024	30	0												
582	SWP-SPS1460	A-frame - 2nd submission to PM & approval	19	17-Apr-2024	06-May-2024	30	0												
583	SWP-SPS1470	Procurement & Delivery of A-frame (20wks)	104	06-May-2024	14-Aug-2024	30	0												
584	MVAC (12wks)		192	23-Dec-2023 A	06-Jul-2024	48		06-Jul-2024, MVAC (12wks)											
585	MVAC-SPS1040	Material Submission - AC Unit split type	22	23-Dec-2023 A	18-Mar-2024	48	0												
586	MVAC-SPS1050	AC Unit split type - 1st round comment by PM & review	25	19-Mar-2024	15-Apr-2024	48	0												
587	MVAC-SPS1060	AC Unit split type - 2nd submission to PM & approval	19	16-Apr-2024	04-May-2024	48	0												
588	MVAC-SPS1070	Procurement & Delivery of AC Unit split type (12wks)	64	04-May-2024	06-Jul-2024	48	0												
589	ELV (16wks)		213	23-Dec-2023 A	26-Jul-2024	111		26-Jul-2024, ELV (16wks)											
590	ELV-SPS1060	Material Submission - SCADA	22	23-Dec-2023 A	18-Mar-2024	111	0												
591	ELV-SPS1070	SCADA - 1st round comment by PM & review	25	19-Mar-2024	15-Apr-2024	111	0												
592	ELV-SPS1080	SCADA - 2nd submission to PM & approval	19	16-Apr-2024	04-May-2024	111	0												
593	ELV-SPS1090	Procurement & Delivery of SCADA (16wks)	85	04-May-2024	26-Jul-2024	111	0												
594	Footbridge FK2 Road lighting		709	03-Dec-2021 A	03-Nov-2023 A			FK2 Road lighting											
595	Electrical schematic (CSF-445)		709	03-Dec-2021 A	03-Nov-2023 A			Electrical schematic (CSF-445)											
596	RD-ES1000	Preparation and submission of Footbridge Electrical Schematic	30	03-Dec-2021 A	04-Jan-2022 A		0												
597	RD-ES1010	Footbridge Electrical Schematic - 1st submission to PM & review	15	05-Jan-2022 A	19-Jan-2022 A		0												
598	RD-ES1020	Footbridge Electrical Schematic - 2nd submission to PM & approval	36	26-Jul-2022 A	31-Aug-2022 A		0												
599	RD-ES1030	Footbridge Electrical Schematic - 1st submission to HyD	24	05-Oct-2022 A	28-Oct-2022 A		0												
600	RD-ES1040	Footbridge Electrical Schematic - Re-submission to HyD and approval	34	03-Oct-2023 A	03-Nov-2023 A		0												
601	EL System - Electrical and lighting layout (CSF-494)		699	13-Dec-2021 A	03-Nov-2023 A			Electrical and lighting layout (CSF-494)											
602	RD-EL1000	Preparation of Electrical and lighting layout (PS section 30)	30	13-Dec-2021 A	13-Jan-2022 A		0												
603	RD-EL1010	Electrical and lighting layout - 1st submission to PM & review	11	14-Jan-2022 A	25-Jan-2022 A		0												
604	RD-EL1020	Electrical and lighting layout - 2nd submission to PM & review	16	02-Aug-2022 A	17-Aug-2022 A		0												
605	RD-EL1025	Electrical and lighting layout - 3rd submission to PM & approval	43	18-Aug-2022 A	03-Oct-2022 A		0												
606	RD-EL1030	Electrical and lighting layout - 1st submission to HyD	34	05-Oct-2022 A	28-Oct-2022 A		0												
607	RD-EL1040	Electrical and lighting layout - Re-submission to HyD and approval	34	03-Oct-2023 A	03-Nov-2023 A		0												
608	Materials Submission (CSF-693)		580	11-Apr-2022 A	03-Nov-2023 A			Materials Submission (CSF-693)											
609	RD-MS1000	Preparation and submission of material of footbridge (PS section 30)	29	11-Apr-2022 A	11-May-2022 A		0												
610	RD-MS1010	Material Submission - 1st round comment by PM	14	12-May-2022 A	25-May-2022 A		0												
611	RD-MS1020	Material Submission - 2nd submission to PM	19	15-Jul-2022 A	03-Aug-2022 A		0												
612	RD-MS1025	Material Submission - 3rd submission to PM and comment	45	04-Aug-2022 A	13-Sep-2022 A		0												
613	RD-MS1027	Material Submission - 4th submission to PM and Approval	17	14-Sep-2022 A	03-Oct-2022 A		0												
614	RD-MS1030	Material Submission - 1st submission to HyD	24	05-Oct-2022 A	28-Oct-2022 A		0												
615	RD-MS1040	Material Submission - Re-submission to HyD and approval	34	03-Oct-2023 A	03-Nov-2023 A		0												
616	Drawing Submission of Road Lighting Layout (CSF-703)		586	04-Apr-2022 A	03-Nov-2023 A			Drawing Submission of Road Lighting Layout (CSF-703)											
617	RD-RL1000	Preparation & submission of Road Lighting Layout (PS section 30)	27	04-Apr-2022 A	03-May-2022 A		0												
618	RD-RL1010	Road Lighting Layout - 1st round comment by PM	21	04-May-2022 A	25-May-2022 A		0												
619	RD-RL1020	Road Lighting Layout - 2nd submission to PM & approval	20	10-Sep-2022 A	03-Oct-2022 A		0												
620	RD-RL1030	Road Lighting Layout - 1st submission to HyD	24	05-Oct-2022 A	29-Oct-2022 A		0												

█ Primary Baseline
 █ Critical Remaining Work
 █ Non-Critical Milestone
 Data Date: 29-Feb-2024
█ Actual Work
 █ Baseline Milestone
 █ Summary
 Project Start: 03-Feb-2020
█ Remaining Work
 ◆ Critical Milestone
 Project End: 24-Jul-2026

4 Months Rolling Programme (Mar-Jun 2024)

Date	Revision	Checked	Approved
04-Apr-2024	0	RP	EW

#	Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	TRA	2024														
								Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
698	Louvre		135	01-Jun-2023 A	30-Nov-2023 A																	
699	ABWF-P5-1025	Shop Drawing / Method Statement / ITP Submission - Louvre	20	01-Jun-2023 A	11-Oct-2023 A		0															
700	ABWF-P5-1030	Shop Drawing / Method Statement / ITP Submission - Louvre - 1st round comment by PM & review	20	09-Sep-2023 A	20-Oct-2023 A		0															
701	ABWF-P5-1050	Shop Drawing Submission - Louvre - 2nd submission to PM & approval	10	28-Sep-2023 A	30-Nov-2023 A		0															
702	Aluminium Grilles		78	03-Oct-2023 A	15-Dec-2023 A																	
703	ABWF-P5-1115	Shop Drawing / Method Statement / ITP Submission- Aluminium Grilles	30	03-Oct-2023 A	31-Oct-2023 A		0															
704	ABWF-P5-1120	Shop Drawing / Method Statement / ITP Submission - Aluminium Grilles - 1st round comment by PM & review	21	01-Nov-2023 A	20-Nov-2023 A		0															
705	ABWF-P5-1140	Shop Drawing / Method Statement / ITP Submission - Aluminium Grilles - 2nd submission to PM & approval	17	30-Nov-2023 A	15-Dec-2023 A		0															
706	Package 6		319	01-Jun-2023 A	11-Apr-2024	849																
707	Fence / Handrail / Parapet		165	01-Jun-2023 A	20-Nov-2023 A																	
708	ABWF-P6-1180	Shop Drawing / Method Statement / ITP Submission - Fence / Handrail / Parapet	30	01-Jun-2023 A	15-Jul-2023 A		0															
709	ABWF-P6-1190	Fence / Handrail / Parapet - 1st round comment by PM & review	21	19-Sep-2023 A	19-Oct-2023 A		0															
710	ABWF-P6-1200	Fence / Handrail / Parapet - 2nd submission to PM & approval	21	01-Nov-2023 A	20-Nov-2023 A		0															
711	Skylight		131	01-Jun-2023 A	13-Dec-2023 A																	
712	ABWF-P3-1000	Shop Drawing / Method Statement / ITP Submission - Skylight	18	01-Jun-2023 A	15-Jul-2023 A		0															
713	ABWF-P3-1010	Shop Drawing / Method Statement / ITP Submission - Skylight - 1st round comment by PM & review	14	08-Sep-2023 A	30-Nov-2023 A		0															
714	ABWF-P3-1020	Shop Drawing / Method Statement / ITP Submission - Skylight - 2nd submission to PM & approval	14	30-Nov-2023 A	13-Dec-2023 A		0															
715	Roller Shutters		131	30-Nov-2023 A	11-Apr-2024	169																
716	ABWF-P3-1210	Shop Drawing / Method Statement / ITP Submission - Shutter	30	30-Nov-2023 A	29-Dec-2023 A		0															
717	ABWF-P3-1220	Shop Drawing / Method Statement / ITP Submission - Shutter - 1st round comment by PM & review	21	30-Dec-2023 A	18-Mar-2024	169	0															
718	ABWF-P3-1230	Shop Drawing / Method Statement / ITP Submission - Shutter - 2nd submission to PM & approval	21	19-Mar-2024	11-Apr-2024	169	0															
719	Fall Arrest system		73	01-Nov-2023 A	15-Jan-2024 A																	
720	ABWF-P3-1240	Shop Drawing / Method Statement / ITP Submission- Fall Arrest System	30	01-Nov-2023 A	28-Nov-2023 A		0															
721	ABWF-P3-1250	Shop Drawing / Method Statement / ITP Submission - 1st round comment by PM & review	21	28-Nov-2023 A	19-Dec-2023 A		0															
722	ABWF-P3-1260	Shop Drawing / Method Statement / ITP Submission- Fall Arrest System - 2nd submission to PM & approval	21	19-Dec-2023 A	15-Jan-2024 A		0															
723	Steel Doors		139	01-Jun-2023 A	04-Mar-2024	886																
724	ABWF-P3-1325	Shop Drawing / Method Statement / ITP Submission - Steel Doors and Ironmongeries	20	01-Jun-2023 A	30-Nov-2023 A		0															
725	ABWF-P3-1330	Shop Drawing / Method Statement / ITP Submission - Steel Doors and Ironmongeries - 1st round comment by PM & review	21	30-Nov-2023 A	19-Dec-2023 A		0															
726	ABWF-P3-1350	Shop Drawing / Method Statement / ITP Submission - Steel Doors and Ironmongeries - 2nd submission to PM & approval	14	19-Dec-2023 A	04-Mar-2024	886	0															
727	Sundry Metal Works (Covers / Cat Ladder / Steel Staircase)		157	01-Jun-2023 A	19-Jan-2024 A																	
728	ABWF-P4-1000	Shop Drawing / Method Statement / ITP Submission - Sundry Metal Works	30	01-Jun-2023 A	30-Nov-2023 A		0															
729	ABWF-P4-1010	Shop Drawing / Method Statement / ITP Submission- Sundry Metal Works - 1st round comment by PM & review	21	01-Dec-2023 A	20-Dec-2023 A		0															
730	ABWF-P4-1020	Shop Drawing / Method Statement / ITP Submission - Sundry Metal Works - 2nd submission to PM & approval	21	20-Dec-2023 A	19-Jan-2024 A		0															
731	Package 7		71	01-Nov-2023 A	08-Mar-2024	737																
732	Toilet Cubicle & Shower Cubicle		71	01-Nov-2023 A	08-Mar-2024	737																
733	ABWF-P3-1270	Shop Drawing / Method Statement / ITP Submission - Toilet Cubicle	30	01-Nov-2023 A	28-Nov-2023 A		0															
734	ABWF-P3-1280	Shop Drawing / Method Statement / ITP Submission - Toilet Cubicle - 1st round comment by PM & review	21	28-Nov-2023 A	16-Dec-2023 A		0															
735	ABWF-P3-1290	Shop Drawing / Method Statement / ITP Submission - Toilet Cubicle - 2nd submission to PM & approval	21	18-Dec-2023 A	08-Mar-2024	737	0															
736	ABWF Material Submission		483	03-Oct-2022 A	25-Jan-2024 A																	
737	Package 1		48	02-May-2023 A	16-Jun-2023 A																	
738	Concrete Block		48	02-May-2023 A	16-Jun-2023 A																	
739	ABWF-VC3110	Material & Sample Submission - Gypsum Block	14	02-May-2023 A	15-May-2023 A		0															
740	ABWF-VC3120	Material & Sample Submission - Gypsum Block - 1st round comment by PM & review	21	15-May-2023 A	03-Jun-2023 A		0															
741	ABWF-VC3130	Material & Sample Submission - Gypsum Block - 2nd submission to PM & approval	14	03-Jun-2023 A	16-Jun-2023 A		0															
742	Package 2		120	01-Mar-2023 A	29-Jun-2023 A																	
743	Internal Wall Painting		48	01-Mar-2023 A	19-Apr-2023 A																	
744	ABWF-VC3000	Material & Sample Submission - Internal Wall Painting	21	01-Mar-2023 A	20-Mar-2023 A		0															
745	ABWF-VC3010	Material & Sample Submission - Internal Wall Painting - 1st round comment by PM & review	14	20-Mar-2023 A	01-Apr-2023 A		0															
746	ABWF-VC3020	Material & Sample Submission - Internal Wall Painting - 2nd submission to PM & approval	14	01-Apr-2023 A	19-Apr-2023 A		0															
747	External Wall Painting		75	17-Apr-2023 A	29-Jun-2023 A																	
748	ABWF-VC3180	Material & Sample Submission - External Wall Painting	21	17-Apr-2023 A	06-May-2023 A		0															
749	ABWF-VC3190	Material & Sample Submission - External Wall Painting - 1st round comment by PM & review	14	08-May-2023 A	20-May-2023 A		0															
750	ABWF-VC3200	Material & Sample Submission - External Wall Painting - 2nd submission to PM & approval	14	15-Jun-2023 A	29-Jun-2023 A		0															
751	Package 3		452	03-Oct-2022 A	20-Dec-2023 A																	
752	External suspended Baffle Ceiling (CSF-1103)		212	03-Oct-2022 A	30-Sep-2023 A																	
753	ABWF-VC3250	Material & Sample Submission - External Suspended Baffle Ceiling	20	03-Oct-2022 A	26-Oct-2022 A		0															
754	ABWF-VC3260	Material & Sample Submission 1st round comment by PM & review	18	27-Oct-2022 A	16-Nov-2022 A		0															
755	ABWF-VC3270	Material & Sample Submission, 2nd round comment by PM & approval	20	01-Feb-2023 A	18-Feb-2023 A		0															
756	ABWF-VC3280	Material Procurement of External Suspended Baffle Ceiling	72	18-Jul-2023 A	30-Sep-2023 A		0															
757	Movable Folding Partition (CSF-1104)		452	03-Oct-2022 A	19-Dec-2023 A																	
758	ABWF-VC3650	Material & Sample Submission - Movable Folding Partition	26	03-Oct-2022 A	02-Nov-2022 A		0															
759	ABWF-VC3660	Material & Sample Submission 1st round comment by PM & review	21	03-Nov-2022 A	18-Nov-2022 A		0															
760	ABWF-VC3670	Material & Sample Submission, 2nd round comment by PM & approval	21	01-Feb-2023 A	20-Feb-2023 A		0															
761	ABWF-VC3680	Material Procurement of Movable Folding Partition	21	30-Nov-2023 A	19-Dec-2023 A		0															
762	Internal Acoustic Ceiling (CSF-1105)		151	03-Oct-2022 A	28-Feb-2023 A																	
763	ABWF-VC3290	Material & Sample Submission - Acoustic Ceiling	26	03-Oct-2022 A	02-Nov-2022 A		0															
764	ABWF-VC3300	Material & Sample Submission 1st round comment by PM & review	17	03-Nov-2022 A	22-Nov-2022 A		0															
765	ABWF-VC3310	Material & Sample Submission, 2nd round comment by PM & approval	10	01-Feb-2023 A	09-Feb-2023 A		0															
766	ABWF-VC3320	Material Procurement of Acoustic Ceiling	21																			

#	Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	TRA	2024													
								Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
775	ABWF-VC3350	Material & Sample Submission, 2nd round comment by PM & approval	10	30-Nov-2023 A	08-Dec-2023 A		0														
776	Timber Deck		116	01-Jun-2023 A	31-Jul-2023 A																
777	ABWF-VC3370	Material & Sample Submission - Timber Deck	10	01-Jun-2023 A	09-Jun-2023 A		0														
778	ABWF-VC3380	Material & Sample Submission - 1st round comment by PM & review	21	09-Jun-2023 A	30-Jun-2023 A		0														
779	ABWF-VC3390	Material & Sample Submission -, 2nd round comment by PM & approval	10	30-Jun-2023 A	11-Jul-2023 A		0														
780	ABWF-VC3400	Material Procurement of Timber Deck	21	11-Jul-2023 A	31-Jul-2023 A		0														
781	Timber Flooring		58	23-Mar-2023 A	20-Dec-2023 A																
782	ABWF-VC3610	Material & Sample Submission - Timber Flooring	10	23-Mar-2023 A	31-Mar-2023 A		0														
783	ABWF-VC3620	Material & Sample Submission - 1st round comment by PM & review	21	31-Mar-2023 A	24-Apr-2023 A		0														
784	ABWF-VC3630	Material & Sample Submission -, 2nd round comment by PM & approval	10	21-Apr-2023 A	02-May-2023 A		0														
785	ABWF-VC3640	Material Procurement of Timber Deck	21	01-Dec-2023 A	20-Dec-2023 A		0														
786	Roof Hatch		120	01-Jun-2023 A	17-Nov-2023 A																
787	ABWF-VC3690	Material & Sample Submission - Roof Hatch	10	01-Jun-2023 A	09-Jun-2023 A		0														
788	ABWF-VC3700	Material & Sample Submission - 1st round comment by PM & review	21	09-Jun-2023 A	29-Jun-2023 A		0														
789	ABWF-VC3720	Material Procurement and Delivery of Roof Hatch	90	23-Aug-2023 A	17-Nov-2023 A		0														
790	Package 4		83	01-Nov-2023 A	19-Jan-2024 A																
791	Timber Door		66	01-Nov-2023 A	09-Jan-2024 A																
792	ABWF-VC3410	Material & Sample Submission - Timber Doors	10	01-Nov-2023 A	09-Nov-2023 A		0														
793	ABWF-VC3420	Material & Sample Submission - 1st round comment by PM & review	20	09-Nov-2023 A	27-Nov-2023 A		0														
794	ABWF-VC3430	Material & Sample Submission -, 2nd round comment by PM & approval	20	27-Nov-2023 A	14-Dec-2023 A		0														
795	ABWF-VC3440	Material Procurement of Timber Doors	20	14-Dec-2023 A	09-Jan-2024 A		0														
796	Fitting and Fixtures		83	01-Nov-2023 A	19-Jan-2024 A																
797	ABWF-VC3450	Material & Sample Submission - Fitting and Fixtures	20	01-Nov-2023 A	18-Nov-2023 A		0														
798	ABWF-VC3460	Material & Sample Submission - 1st round comment by PM & review	21	18-Nov-2023 A	07-Dec-2023 A		0														
799	ABWF-VC3470	Material & Sample Submission -, 2nd round comment by PM & approval	14	07-Dec-2023 A	20-Dec-2023 A		0														
800	ABWF-VC3480	Material Procurement of - Fitting and Fixtures	30	20-Dec-2023 A	19-Jan-2024 A		0														
801	Package 5		80	01-Nov-2023 A	25-Jan-2024 A																
802	Windows		48	01-Nov-2023 A	15-Dec-2023 A																
803	ABWF-VC3530	Material & Sample Submission - Window	20	01-Nov-2023 A	18-Nov-2023 A		0														
804	ABWF-VC3540	Material & Sample Submission - 1st round comment by PM & review	12	18-Nov-2023 A	29-Nov-2023 A		0														
805	ABWF-VC3550	Material & Sample Submission -, 2nd round comment by PM & approval	18	29-Nov-2023 A	15-Dec-2023 A		0														
806	Louvers		20	01-Nov-2023 A	12-Dec-2023 A																
807	ABWF-VC3490	Material & Sample Submission - Louvers	18	01-Nov-2023 A	22-Nov-2023 A		0														
808	ABWF-VC3510	Material & Sample Submission, comment by PM & approval	8	22-Nov-2023 A	28-Nov-2023 A		0														
809	ABWF-VC3520	Material Procurement of Louvers	14	28-Nov-2023 A	12-Dec-2023 A		0														
810	Aluminium Grilles		80	01-Nov-2023 A	25-Jan-2024 A																
811	ABWF-VC3570	Material & Sample Submission - Aluminium Grilles	25	01-Nov-2023 A	18-Nov-2023 A		0														
812	ABWF-VC3580	Material & Sample Submission 1st round comment by PM & review	30	18-Nov-2023 A	11-Dec-2023 A		0														
813	ABWF-VC3590	Material & Sample Submission -, 2nd round comment by PM & approval	21	11-Dec-2023 A	27-Dec-2023 A		0														
814	ABWF-VC3600	Material Procurement of Window / Louvers	21	27-Dec-2023 A	25-Jan-2024 A		0														
815	Package 6		0				0														
816	Package 7		0				0														
817	Toilet Cubicle & Shower Cubicle		0				0														
818	Mock Up		424	11-Feb-2023 A	05-Apr-2024	849															
819	Package 1		40	11-Feb-2023 A	21-Mar-2023 A																
820	Plastering / Tile Adhesive		40	11-Feb-2023 A	21-Mar-2023 A																
821	ABWF-VC1000	Fabrication of Mock Up - Plastering / Tile Adhesive	10	11-Feb-2023 A	20-Feb-2023 A		0														
822	ABWF-VC1010	Mock Up 1st round comment by PM & review	10	20-Feb-2023 A	28-Feb-2023 A		0														
823	ABWF-VC1020	Mock Up modification, 2nd round comment by PM & approval	10	28-Feb-2023 A	08-Mar-2023 A		0														
824	ABWF-VC1030	Material Procurement of Plastering material / Tile Adhesive	14	08-Mar-2023 A	21-Mar-2023 A		0														
825	Internal tiling works		40	11-Feb-2023 A	21-Mar-2023 A																
826	ABWF-VC1160	Fabrication of Mock Up - Internal tiling works	10	11-Feb-2023 A	20-Feb-2023 A		0														
827	ABWF-VC1170	Mock Up 1st round comment by PM & review	10	20-Feb-2023 A	28-Feb-2023 A		0														
828	ABWF-VC1180	Mock Up modification, 2nd round comment by PM & approval	10	28-Feb-2023 A	08-Mar-2023 A		0														
829	ABWF-VC1190	Material Procurement of Internal tiling works	14	08-Mar-2023 A	21-Mar-2023 A		0														
830	Package 2		113	17-Mar-2023 A	11-Jul-2023 A																
831	Internal Wall Painting		54	17-Mar-2023 A	11-May-2023 A																
832	ABWF-VC1960	Fabrication of Mock Up - Internal Wall Painting	10	17-Mar-2023 A	25-Mar-2023 A		0														
833	ABWF-VC1970	Mock Up 1st round comment by PM & review	21	25-Mar-2023 A	18-Apr-2023 A		0														
834	ABWF-VC1980	Mock Up modification, 2nd round comment by PM & approval	10	18-Apr-2023 A	27-Apr-2023 A		0														
835	ABWF-VC1990	Material Procurement for Internal Wall Painting	14	27-Apr-2023 A	11-May-2023 A		0														
836	External Wall Painting		54	17-May-2023 A	11-Jul-2023 A																
837	ABWF-VC3140	Fabrication of Mock Up - External Wall Painting	10	17-May-2023 A	27-May-2023 A		0														
838	ABWF-VC3150	Mock Up 1st round comment by PM & review	21	27-May-2023 A	15-Jun-2023 A		0														
839	ABWF-VC3160	Mock Up modification, 2nd round comment by PM & approval	10	15-Jun-2023 A	26-Jun-2023 A		0														
840	ABWF-VC3170	Material Procurement for External Wall Painting	14	26-Jun-2023 A	11-Jul-2023 A		0														
841	Package 3		259	23-May-2023 A	29-Jan-2024 A																
842	External suspended Baffle Ceiling		72	20-Sep-2023 A	29-Jan-2024 A																
843	ABWF-VC1360	Fabrication of Mock Up - External Suspended Baffle Ceiling	10	20-Sep-2023 A	28-Sep-2023 A		0														
844	ABWF-VC1370	Mock Up 1st round comment by PM & review	8	28-Sep-2023 A	07-Oct-2023 A		0														
845	ABWF-VC1380	Mock Up modification, 2nd round comment by PM & approval	12	30-Dec-2023 A	11-Jan-2024 A		0														
846	ABWF-VC1390	Material Procurement of External Suspended Baffle Ceiling	20	11-Jan-2024 A	29-Jan-2024 A		0														
847	Internal Acoustic Ceiling		64	01-Nov-2023 A	20-Jan-2024 A																
848	ABWF-VC1400	Fabrication of Mock Up - Acoustic Ceiling	15	01-Nov-2023 A	14-Nov-2023 A		0														
849	ABWF-VC1410	Mock Up 1st round comment by PM & review	21	14-Nov-2023 A	02-Dec-2023 A		0														
850	ABWF-VC1420	Mock Up modification, 2nd round comment by PM & approval	10	02-Dec-2023 A	11-Dec-2023 A		0														
851	ABWF-VC1430	Material Procurement of Acoustic Ceiling	21	11-Dec-2023 A	20-Jan-2024 A		0														

■ Primary Baseline
 ■ Critical Remaining Work
 ■ Non-Critical Milestone
▬ Actual Work
 ◆ Baseline Milestone
 ▬ Summary
▬ Remaining Work
 ◆ Critical Milestone

Data Date: 29-Feb-2024
 Project Start: 03-Feb-2020
 Project End: 24-Jul-2026

4 Months Rolling Programme (Mar-Jun 2024)

#	Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	TRA	2024													
								Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1321	P3-2210	Soft Excavation to 1st strut level (99m @12m / Bay)	81	20-Jan-2022 A	30-Mar-2022 A		2														
1322	P3-2210.1	Installation of strut S1 (99m @12m / Bay)	84	24-Jan-2022 A	04-Apr-2022 A		2														
1323	P3-2220	Soft Excavation to 2nd strut level (99m @12m / Bay)	84	11-Feb-2022 A	07-Apr-2022 A		2														
1324	P3-2220.1	Installation of strut S2 (99m @12m / Bay)	69	01-Mar-2022 A	21-Apr-2022 A		2														
1325	P3-2250	Soft Excavation to F.L.; (99m @12m / Bay)	66	10-Mar-2022 A	25-Apr-2022 A		2														
1326	P3-2253	Receipt from manufacturer's notification for delay of delivery due to Covid-19	57	01-Mar-2022 A	29-Apr-2022 A		3														
1327	P3-2255	Impacted Delivery Date of Concrete Pipe	0	05-May-2022 A	05-May-2022 A		3														
1328	P3-2260	Bedding & Pipe Laying (Twins 800 Concrete Pipe)	5	05-May-2022 A	10-May-2022 A		2														
1329	P3-2263	Bedding & Pipe Laying (Twins 800 Concrete Pipe)	11	14-May-2022 A	25-May-2022 A		2														
1330	P3-2265	Backfilling of drain to at grade level KT1.37A	45	30-May-2022 A	16-Jul-2022 A		2														
1331	P3-2270	Construction of Manhole KT1.37A	27	13-Jun-2022 A	15-Nov-2022 A		2														
1332	P3-2275	Extract Sheet Pile along trench	30	15-Jul-2022 A	15-Aug-2022 A		2														
1333	P3-2280	Backfilling of manhole to at grade level KT1.37A	55	01-Nov-2022 A	28-Dec-2022 A		2														
1334	KT1.37A - KT1.36A (90m) (Open Cut by CE-068)		344	03-Jan-2022 A	06-Dec-2022 A																
1335	Before Tree Removal		28	04-Feb-2022 A	03-Mar-2022 A																
1336	P3-2000	Expose Utilities by Hand excavation	8	04-Feb-2022 A	11-Feb-2022 A		2														
1337	P3-2005	Sheet Pile Installation for open trench at KT1.37A - KT1.36A (River side before tree removal)	19	12-Feb-2022 A	03-Mar-2022 A		2														
1338	Tree Removal		184	03-Jan-2022 A	15-Jul-2022 A																
1339	P3-2009.1	RFI 076 for the Clashing of Pipe Trench of KT1.37A to KT1.36A	0	03-Jan-2022 A	03-Jan-2022 A		2														
1340	P3-2009.2	Waiting Period from Project Manager of RFI 076	51	04-Jan-2022 A	28-Feb-2022 A		2														
1341	P3-2009.3	Receipt of Project Reply of RFI 076 for felling the tree T0937	0	01-Mar-2022 A			2														
1342	P3-2009.4	Application and Approval for tree felling of T0937	88	01-Mar-2022 A	01-Jun-2022 A		2														
1343	P3-2009.5	Tree felling works of T0937 to release working space for sheet piling	2	14-Jul-2022 A	15-Jul-2022 A		2														
1344	After Tree Removal		284	04-Mar-2022 A	06-Dec-2022 A																
1345	P3-2009.6	Sheet Pile Installation for open trench at KT1.37A - KT1.36A (River side avoid abandoned tree location)	24	08-Jun-2022 A	02-Jul-2022 A		2														
1346	P3-2009.7	Sheet Pile Installation for open trench at KT1.37A - KT1.36A (Cycle Track Side to close the entire trench)	116	04-Mar-2022 A	06-Jul-2022 A		2														
1347	P3-2010	Soft Excavation to 1st strut level	34	15-Jun-2022 A	20-Jul-2022 A		2														
1348	P3-2010.1	Installation of strut S1	36	29-Jun-2022 A	29-Jul-2022 A		2														
1349	P3-2020	Soft Excavation to 2nd strut level	34	06-Jul-2022 A	25-Aug-2022 A		2														
1350	P3-2020.1	Installation of strut S2	36	19-Jul-2022 A	29-Aug-2022 A		2														
1351	P3-2070	Soft Excavation to F.L. with blinding cast; (approx. 8.5m depth)	27	05-Sep-2022 A	05-Oct-2022 A		2														
1352	P3-2110	Bedding & Pipe Laying (Twins 800 Concrete Pipe)	26	19-Sep-2022 A	14-Oct-2022 A		2														
1353	P3-2115	Backfilling of drain to at grade level with dismantling strut	45	06-Oct-2022 A	21-Nov-2022 A		2														
1354	P3-6290	Sheet Pile Extraction	34	02-Nov-2022 A	06-Dec-2022 A		2														
1355	KT1.36A - KT1.33A (23m) (Open Cut by CE-068)		389	20-Dec-2022 A	15-Mar-2024	354															
1356	P3-5025	Hand Dig Excavation to identify the routing of existing utilities with diversion	63	20-Dec-2022 A	28-Feb-2023 A		2														
1357	P3-5030	Sheet Pile Installation of combined shaft (KT1.33A & KT6005A)	7	02-Aug-2023 A	08-Aug-2023 A		2														
1358	P3-5040	Soft Excavation to 1st strut level	3	09-Aug-2023 A	11-Aug-2023 A		2														
1359	P3-5040.1	Installation of strut S1	6	11-Aug-2023 A	16-Aug-2023 A		2														
1360	P3-5050	Soft Excavation to 2nd strut level	5	17-Aug-2023 A	21-Aug-2023 A		2														
1361	P3-5050.1	Installation of strut S2	6	21-Aug-2023 A	25-Aug-2023 A		2														
1362	P3-5070	Soft Excavation to F.L.; (approx. 8.5m depth)	7	26-Aug-2023 A	01-Sep-2023 A		2														
1363	P3-6130	Sheet pile installation of Trench for 800 dia. and 2100 dia. pipe installation	11	02-Sep-2023 A	12-Sep-2023 A		2														
1364	P3-6140	Soft Excavation to 1st Strut Level	7	13-Sep-2023 A	19-Sep-2023 A		2														
1365	P3-6150	Install 1st Level Strut	8	20-Sep-2023 A	27-Sep-2023 A		2														
1366	P3-6160	Soft Excavation to 2nd Strut Level	7	27-Sep-2023 A	05-Oct-2023 A		2														
1367	P3-6170	Install 2nd Level Strut	8	05-Oct-2023 A	12-Oct-2023 A		2														
1368	P3-6200	Excavate to FEL	7	13-Oct-2023 A	19-Oct-2023 A		2														
1369	P3-6210	Bedding & 800 Dia. Concrete Pipe Laying	7	20-Oct-2023 A	30-Oct-2023 A		2														
1370	P3-6220	Backfill to base level of 2100 dia pipe, bedding and pipe laying	17	30-Oct-2023 A	15-Nov-2023 A		2														
1371	P3-6230	Backfill to formation and reinstatement	17	21-Dec-2023 A	15-Mar-2024	354	2														
1372	Reinstatement Works		771	01-Jul-2023 A	28-Jun-2025	7															
1373	Slope Reinstatement		249	01-Jul-2023 A	02-Mar-2024	497															
1374	P3-5021	Slope reinstatement works from KT1.33 - KT1.37	60	01-Jul-2023 A	04-Jan-2024 A																
1375	P3-5031	Slope reinstatement works from KT1.37 - KT1.40	60	01-Jul-2023 A	02-Mar-2024	497															
1376	Road Reinstatement for Permanent DSD Maintenance Access		92	01-Dec-2023 A	02-Mar-2024	-206															
1377	P3-5044	Laying K1 Kerb works & u-channel, Trimming and Compaction works to formation level	28	01-Dec-2023 A	28-Dec-2023 A																
1378	CH80 to CH190		61	02-Jan-2024 A	02-Mar-2024	-206															
1379	P3-5045	CH80 to CH100 Erect Rebar & Formwork and Pouring concrete to slab	3	29-Feb-2024*	02-Mar-2024	-206															
1380	P3-5046	CH100 to CH120 Erect Rebar & Formwork and Pouring concrete to slab	2	05-Feb-2024 A	06-Feb-2024 A																
1381	P3-5055	Bay 1-2 - Erect Rebar & Formwork and Pouring concrete to slab	2	11-Jan-2024 A	12-Jan-2024 A																
1382	P3-5075	Bay 3 - Erect Rebar & Formwork and Pouring concrete to slab	2	02-Jan-2024 A	03-Jan-2024 A																
1383	P3-5085	Bay 4 - Erect Rebar & Formwork and Pouring concrete to slab	2	26-Jan-2024 A	27-Jan-2024 A																
1384	P3-5095	Bay 5 - Erect Rebar & Formwork and Pouring concrete to slab	2	10-Jan-2024 A	11-Jan-2024 A																
1385	P3-5105	Bay 6 - Erect Rebar & Formwork and Pouring concrete to slab	2	09-Jan-2024 A	10-Jan-2024 A																
1386	P3-5115	Bay 7 - Erect Rebar & Formwork and Pouring concrete to slab	1	08-Jan-2024 A	08-Jan-2024 A																
1387	CH190 to CH380		36	15-Jan-2024 A	27-Feb-2024 A																
1388	P3-5116	Bay 8 - Erect Rebar & Formwork and Pouring concrete to slab	2	20-Jan-2024 A	22-Jan-2024 A																
1389	P3-5126	Bay 9 - Erect Rebar & Formwork and Pouring concrete to slab	1	20-Jan-2024 A	20-Jan-2024 A																
1390	P3-5136	Bay 10 - Erect Rebar & Formwork and Pouring concrete to slab	2	26-Jan-2024 A	27-Jan-2024 A																
1391	P3-5146	Bay 11 - Erect Rebar & Formwork and Pouring concrete to slab	1	20-Jan-2024 A	20-Jan-2024 A																
1392	P3-5156	Bay 12 - Erect Rebar & Formwork and Pouring concrete to slab	2	18-Jan-2024 A	19-Jan-2024 A																
1393	P3-5166	Bay 13 - Erect Rebar & Formwork and Pouring concrete to slab	2	29-Jan-2024 A	30-Jan-2024 A																
1394	P3-5176	Bay 15 & 18 - Erect Rebar & Formwork and Pouring concrete to slab	2	17-Jan-2024 A	18-Jan-2024 A																
1395	P3-5186	Bay 14, 16, & 17 - Erect Rebar & Formwork and Pouring concrete to slab	3	30-Jan-2024 A	02-Feb-2024 A																
1396	P3-5226	Bay 19 - Erect Rebar & Formwork and Pouring concrete to slab	2	26-Feb-2024 A	27-Feb-2024 A																
1397	P3-5236	Bay 20 - Erect Rebar & Formwork and Pouring concrete to slab	2	30-Jan-20																	

#	Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	TRA	2024											
								Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1401	P3-5266	Bay 24 - Erect Rebar & Formwork and Pouring concrete to slab	2	16-Jan-2024 A	17-Jan-2024 A														
1402	P3-5276	Bay 25 - Erect Rebar & Formwork and Pouring concrete to slab	2	19-Feb-2024 A	20-Feb-2024 A														
1403	Remaining Reinstatement Works		111	10-Mar-2025	28-Jun-2025	7													
1404	P3-5005	Remaining Pipe Connection to Manhole (After Pipe Jacking)	10	10-Mar-2025	19-Mar-2025	102	2												
1405	P3-5010	Underground Utilities & Road works	90	24-Mar-2025	23-Jun-2025	7	14												
1406	P3-5020	Reinstatement of disturbed landscape area and Tree Planting (83nos.)	40	21-May-2025	28-Jun-2025	7	14												
1407	Portion 4 - Road & Drains		1712	16-Apr-2020 A	17-Mar-2025	502													
1408	Site Possession		174	16-Apr-2020 A	03-Aug-2020 A														
1409	P4-1070	Possession of site - Part of Portion 4	0	16-Apr-2020 A															
1410	P4-1075	Possession of site - Remaining Part of Portion 4	0	03-Aug-2020 A			0												
1411	Pre-construction works		1493	13-Jul-2020 A	14-Aug-2024	720													
1412	Rising Main Installation by Open Cut (CHB 50 to 493 & CHB515 to 974)		869	24-May-2022 A	24-Sep-2024	287													
1413	Gang 1		606	24-May-2022 A	28-Dec-2023 A														
1414	Rising Main CHB255 to CHB371 (116M) Gang 1-1		593	24-May-2022 A	23-Dec-2023 A														
1415	P4-3210	Sheet Pile Installation for open trench (600 pcs)	55	24-May-2022 A	21-Jul-2022 A														
1416	P4-3212	Soft Excavation to 1st strut level	64	23-Jun-2022 A	28-Jul-2022 A														
1417	P4-3214	Installation of strut S1	65	05-Jul-2022 A	18-Aug-2022 A														
1418	P4-3220	Soft Excavation to F.L.	153	09-Aug-2022 A	19-Jan-2023 A														
1419	P4-3222	Bedding and Pipe Laying (Twins DN700)	123	22-Jul-2023 A	17-Nov-2023 A														
1420	P4-3223	RC Works Inspection Chamber and Air Valve Chamber	112	22-Jul-2023 A	07-Nov-2023 A														
1421	P4-3224	Backfilling of drain to at grade level	40	17-Nov-2023 A	23-Dec-2023 A														
1422	Rising Main CHB180 to CHB255 (75M) Gang 1-2		204	05-Jun-2023 A	18-Dec-2023 A														
1423	P4-6480	Sheet Pile Installation for open trench	55	05-Jun-2023 A	28-Aug-2023 A		3												
1424	P4-6490	Soft Excavation to 1st strut level	64	05-Jun-2023 A	05-Sep-2023 A		3												
1425	P4-6500	Installation of strut S1	65	05-Jun-2023 A	06-Sep-2023 A		3												
1426	P4-6530	Soft Excavation to F.L.	44	05-Jun-2023 A	17-Aug-2023 A		4												
1427	P4-6540	Bedding and Pipe Laying (Twins DN700)	14	21-Jul-2023 A	17-Aug-2023 A		2												
1428	P4-6545	RC Works Inspection Chamber and Air Valve Chamber	51	01-Nov-2023 A	18-Dec-2023 A		3												
1429	P4-6550	Backfilling of drain to at grade level	51	01-Nov-2023 A	18-Dec-2023 A		3												
1430	Rising Main CHB560 to CHB589 (74M) Gang 1-3		71	01-Nov-2023 A	28-Dec-2023 A														
1431	P4-5920	Sheet Pile Installation for open trench	32	01-Nov-2023 A	30-Nov-2023 A														
1432	P4-5930	Soft Excavation to 1st strut level	34	01-Nov-2023 A	02-Dec-2023 A														
1433	P4-5940	Installation of strut S1	32	01-Nov-2023 A	30-Nov-2023 A														
1434	P4-5970	Soft Excavation to F.L.	31	30-Nov-2023 A	28-Dec-2023 A														
1435	P4-5980	Bedding and Pipe Laying (Twins DN700)	19	30-Nov-2023 A	18-Dec-2023 A														
1436	P4-5985	RC Works Inspection Chamber and Air Valve Chamber	40	30-Nov-2023 A	28-Dec-2023 A														
1437	P4-5990	Backfilling of drain to at grade level	40	30-Nov-2023 A	28-Dec-2023 A														
1438	Gang 2		456	02-Aug-2022 A	31-Oct-2023 A														
1439	Rising Main CHB120 to CHB180 (60M) Gang 2-1		456	02-Aug-2022 A	31-Oct-2023 A														
1440	P4-6000	Sheet Pile Installation for open trench	55	02-Aug-2022 A	28-Sep-2022 A														
1441	P4-6010	Soft Excavation to 1st strut level	64	20-Sep-2022 A	19-Nov-2022 A														
1442	P4-6020	Installation of strut S1	65	03-Oct-2022 A	09-Dec-2022 A														
1443	P4-6050	Soft Excavation to F.L.	56	25-Oct-2022 A	21-Dec-2022 A														
1444	P4-6060	Bedding and Pipe Laying (Twins DN700)	25	04-Jan-2023 A	30-Jan-2023 A														
1445	P4-6065	RC Works Inspection Chamber and Air Valve Chamber	71	04-Jan-2023 A	19-Sep-2023 A														
1446	P4-6070	Backfilling of drain to at grade level	45	11-Jan-2023 A	26-Sep-2023 A														
1447	P4-6320	Sheet Pile Extraction	34	26-Sep-2023 A	31-Oct-2023 A														
1448	Gang 3		456	05-Aug-2022 A	11-Feb-2023 A														
1449	Rising Main CHB589 to CHB699 (88M) Gang 3-1		456	05-Aug-2022 A	11-Feb-2023 A														
1450	P4-5600	Sheet Pile Installation for open trench	47	05-Aug-2022 A	23-Sep-2022 A														
1451	P4-5610	Soft Excavation to 1st strut level	45	15-Aug-2022 A	30-Sep-2022 A														
1452	P4-5620	Installation of strut S1	28	07-Sep-2022 A	08-Oct-2022 A														
1453	P4-5650	Soft Excavation to F.L.	38	14-Sep-2022 A	26-Oct-2022 A														
1454	P4-5660	Bedding and Pipe Laying (Twins DN700)	9	04-Nov-2022 A	11-Nov-2022 A														
1455	P4-5665	RC Works Inspection Chamber and Air Valve Chamber	51	04-Nov-2022 A	27-Dec-2022 A														
1456	P4-5670	Backfilling of drain to at grade level	51	16-Dec-2022 A	11-Feb-2023 A														
1457	Gang 4		732	29-Sep-2022 A	24-Sep-2024	287													
1458	Rising Main CHB50 to CHB120 (70M) Gang 4-1		143	29-Sep-2022 A	29-Sep-2023 A														
1459	P4-6080	Sheet Pile Installation for open trench	55	29-Sep-2022 A	25-Nov-2022 A														
1460	P4-6090	Soft Excavation to 1st strut level	64	17-Oct-2022 A	21-Dec-2022 A														
1461	P4-6100	Installation of strut S1	65	24-Oct-2022 A	24-Dec-2022 A														
1462	P4-6110	Soft Excavation to F.L.	47	28-Oct-2022 A	30-Dec-2022 A														
1463	P4-6140	Bedding and Pipe Laying (Twins DN700)	24	10-Dec-2022 A	02-Aug-2023 A														
1464	P4-6145	RC Works Inspection Chamber and Air Valve Chamber	51	10-Dec-2022 A	07-Aug-2023 A														
1465	P4-6150	Backfilling of drain to at grade level	51	03-Jan-2023 A	29-Aug-2023 A														
1466	Rising Main CHB371 to CHB493 (122M) Gang 4-2		113	31-Aug-2023 A	15-Jan-2024 A														
1467	P4-6410	Sheet Pile Installation for open trench	36	31-Aug-2023 A	05-Oct-2023 A														
1468	P4-6420	Soft Excavation to 1st strut level	38	31-Aug-2023 A	07-Oct-2023 A														
1469	P4-6430	Installation of strut S1	36	31-Aug-2023 A	05-Oct-2023 A														
1470	P4-6440	Soft Excavation to F.L.	35	01-Sep-2023 A	30-Oct-2023 A														
1471	P4-6450	Bedding and Pipe Laying (Twins DN700)	17	20-Sep-2023 A	06-Oct-2023 A														
1472	P4-6455	RC Works Inspection Chamber and Air Valve Chamber	40	20-Sep-2023 A	08-Nov-2023 A														
1473	P4-6460	Backfilling of drain to at grade level	27	30-Sep-2023 A	08-Nov-2023 A														
1474	P4-6470	Sheet Pile Extraction	27	30-Nov-2023 A	15-Jan-2024 A														
1475	Rising Main CHB699 to CHB749 (50M) Gang 4-3		102	10-Oct-2023 A	17-Jan-2024 A														
1476	P4-5680	Sheet Pile Installation for open trench	13	10-Oct-2023 A	21-Oct-2023 A														
1477	P4-5690	Soft Excavation to 1st strut level	13	24-Oct-2023 A	04-Nov-2023 A														
1478	P4-5700	Installation of strut S1	18	10-Nov-2023 A	27-Nov-2023 A														

■ Primary Baseline
 ■ Critical Remaining Work
 ◆ Non-Critical Milestone
■ Actual Work
 ◆ Baseline Milestone
 ▶ Summary
■ Remaining Work
 ◆ Critical Milestone

Data Date: 29-Feb-2024
 Project Start: 03-Feb-2020
 Project End: 24-Jul-2026

4 Months Rolling Programme (Mar-Jun 2024)

Date	Revision
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#	Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	TRA	2024													
								Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1717	P8-1020	Inspection Pit	18	04-Aug-2020 A	25-Aug-2020 A		4														
1718	P8-1030	Coordination with UU owner to arrange diversion / abandon	18	25-Aug-2020 A	01-Sep-2020 A		0														
1719	P8-1040	Circulation & Approval of TTAs	21	18-Aug-2020 A	19-Sep-2020 A		0														
1720	P8-1050	Formation of Temporary Haul Road & Entrance to Portion 7 & Portion 10	30	21-Sep-2020 A	14-Nov-2020 A		2														
1721	P8-1055	Tree Protection and Preservation	1493	03-Aug-2020 A	17-Jul-2024	-325	4														
1722	Cycle Track and Footpath Diversion (For KT1.41A to KT1.47A Construction)		82	01-Jun-2023 A	30-Jun-2023 A																
1723	P8-5850	North Bridge Ramp Landing Completion	0		30-Jun-2023 A																
1724	P8-5900	Cycle Track Shifting to the top of North Bridge Ramp (After North Bridge Ramp Completion)	48	01-Jun-2023 A	30-Jun-2023 A																
1725	Sewer Pipeline Installation		605	04-Jul-2022 A	21-Feb-2024 A																
1726	KT1.40A - KT1.43.7 (50m)		228	04-Jul-2022 A	14-Feb-2023 A																
1727	P8-5140	Sheet Pile Installation for open trench (Open Trench from 1.40A to 1.43.7)	26	04-Jul-2022 A	29-Jul-2022 A																
1728	P8-5150	Soft Excavation to 1st strut level	25	18-Jul-2022 A	11-Aug-2022 A																
1729	P8-5160	Installation of strut S1	26	05-Aug-2022 A	30-Aug-2022 A																
1730	P8-5170	Soft Excavation to 2nd strut level	20	07-Sep-2022 A	06-Oct-2022 A																
1731	P8-5180	Installation of strut S2	26	14-Sep-2022 A	14-Oct-2022 A																
1732	P8-5190	Soft Excavation to F.L.	28	24-Sep-2022 A	27-Oct-2022 A																
1733	P8-5200	Bedding & Pipe Laying (800 Concrete Pipe)	19	31-Oct-2022 A	21-Nov-2022 A																
1734	P8-5205	Construction of Manhole KT1.43.7	21	23-Nov-2022 A	16-Dec-2022 A																
1735	P8-5210	Backfilling of drain to at grade level with dismantling strut	23	16-Dec-2022 A	09-Jan-2023 A																
1736	P8-5220	Extraction of sheet pile and reinstatement	45	28-Dec-2022 A	14-Feb-2023 A																
1737	KT1.43.7 - KT1.41A (60m)		360	05-Dec-2022 A	16-Jan-2024 A																
1738	P8-9090	Sheet Pile Installation for open trench (Open Trench from 1.43.7 to 1.41A)	23	05-Dec-2022 A	05-Sep-2023 A																
1739	P8-9100	Soft Excavation to 1st strut level	22	17-Dec-2022 A	11-Sep-2023 A																
1740	P8-9110	Installation of strut S1	23	21-Dec-2022 A	23-Sep-2023 A																
1741	P8-9120	Soft Excavation to 2nd strut level	31	30-Jan-2023 A	27-Sep-2023 A																
1742	P8-9130	Installation of strut S2	23	31-Aug-2023 A	23-Sep-2023 A																
1743	P8-9140	Soft Excavation to F.L.	24	08-Sep-2023 A	05-Oct-2023 A																
1744	P8-9150	Bedding & Pipe Laying (1200 Concrete Pipe)	16	28-Sep-2023 A	16-Oct-2023 A																
1745	P8-9155	Construction of Manhole KT1.41A	17	16-Oct-2023 A	10-Jan-2024 A		2														
1746	P8-9160	Backfilling of drain to at grade level & Sheet Pile Extraction	24	03-Nov-2023 A	16-Jan-2024 A																
1747	KT1.41A - KT1.47A (100m) (Open Cut by CE-076)		234	30-May-2023 A	21-Feb-2024 A																
1748	P8-6000	Sheet Pile Installation for open trench (after Completion of Temp. Cycle Track and Footpath)	55	30-May-2023 A	21-Jul-2023 A																
1749	P8-6010	Soft Excavation to 1st strut level	59	01-Sep-2023 A	24-Oct-2023 A																
1750	P8-6020	Installation of strut S1	60	01-Sep-2023 A	24-Oct-2023 A																
1751	P8-6030	Soft Excavation to 2nd strut level	47	01-Sep-2023 A	11-Oct-2023 A																
1752	P8-6040	Installation of strut S2	50	01-Sep-2023 A	13-Oct-2023 A																
1753	P8-6050	Soft Excavation to F.L.	44	01-Sep-2023 A	09-Oct-2023 A																
1754	P8-6060	Bedding & Pipe Laying (Twins 1200 Concrete Pipe)	20	30-Nov-2023 A	18-Dec-2023 A																
1755	P8-6070	Backfilling of drain to at grade level (Dismantle 1st level wailing, struts, steel bracket) (Pouring concrete top slab)	40	30-Nov-2023 A	29-Jan-2024 A																
1756	P8-6100	Construction of Manhole KT1.47A	19	30-Nov-2023 A	06-Feb-2024 A		2														
1757	P8-6110	Backfilling to at grade level	27	22-Jan-2024 A	21-Feb-2024 A		2														
1758	Construction and Diversion of Permanent Cycle Track and Footpath		112	15-Feb-2024 A	05-Jun-2024	-282															
1759	Phase 1 - KT1.40A to KT1.41A		112	15-Feb-2024 A	05-Jun-2024	-282															
1760	P8-6140	Construction of Permanent Cycle Track and Footpath from KT1.40A to KT1.41A	33	15-Feb-2024 A	23-Mar-2024	-325															
1761	P8-6141	Cycle Track Shifting from Temporary Cycle Track to Permanent Cycle Track	0		23-Mar-2024	-325															
1762	P8-6150	Demolition of Temporary Cycle Track and Footpath	15	23-Mar-2024	11-Apr-2024	-325															
1763	P8-6160	Resumption of remaining footbridge works at Northern Footway Ramp / Staircase	0		11-Apr-2024	-325															
1764	P8-6170	Permanent Reinstatement works at Temporary Cycle Track and Footpath	29	08-May-2024	05-Jun-2024	-282															
1765	Phase 2 - KT1.41A to KT6.06A		85	15-Feb-2024 A	10-May-2024	-255															
1766	P8-6180	Construction of Permanent Cycle Track and Footpath from KT1.41A to KT6.06A	33	15-Feb-2024 A	25-Mar-2024	-255															
1767	P8-6190	Cycle Track Shifting from Temporary Cycle Track to Permanent Cycle Track	0		25-Mar-2024	-255															
1768	P8-6210	Demolition of Temporary Cycle Track and Footpath	15	25-Mar-2024	12-Apr-2024	-255															
1769	P8-6220	Permanent Reinstatement works at Temporary Cycle Track and Footpath	29	12-Apr-2024	10-May-2024	-255															
1770	Construction of Temporary EVA for LVNC		30	15-Feb-2024 A	23-Mar-2024	-211															
1771	P8-6200	Temporary EVA construction	30	15-Feb-2024 A	23-Mar-2024	-211															
1772	Drainage Outfall construction by Open Cut		559	19-Dec-2022 A	04-Jun-2024	794															
1773	Outfall 5100A		353	19-Dec-2022 A	14-Dec-2023 A																
1774	P8-OF3530	Removal of Grasscrete and concrete materials	2	19-Dec-2022 A	20-Dec-2022 A		0														
1775	P8-OF3531	Excavation to formation level	1	21-Dec-2022 A	21-Dec-2022 A		0														
1776	P8-OF3541	Laying of silt curtain and delivery of concrete block	1	22-Dec-2022 A	22-Dec-2022 A		0														
1777	P8-OF3551	Pour Concrete Blinding	1	24-Dec-2022 A	24-Dec-2022 A		0														
1778	P8-OF3553	Erect formwork for Vertical blinding for base slab shear key	1	29-Dec-2022 A	29-Dec-2022 A		0														
1779	P8-OF3555	Pour Concrete shear key blinding	1	30-Dec-2022 A	30-Dec-2022 A		0														
1780	P8-OF3557	Strip off formwork for shear key	1	05-Jan-2023 A	05-Jan-2023 A		0														
1781	P8-OF3559	Erect formwork for Shear key	1	07-Jan-2023 A	07-Jan-2023 A		0														
1782	P8-OF3561	Erect formwork for outfall base slab	1	09-Jan-2023 A	09-Jan-2023 A		0														
1783	P8-OF3563	Erect formwork for outfall Wall (1st side)	10	09-Jan-2023 A	18-Jan-2023 A		0														
1784	P8-OF3565	Rebar fixing for outfall base slab	9	10-Jan-2023 A	18-Jan-2023 A		0														
1785	P8-OF3611	Outfall Baseslab concreting	1	19-Jan-2023 A	19-Jan-2023 A		0														
1786	P8-OF3621	Dismantle Base slab Formwork	2	01-Feb-2023 A	02-Feb-2023 A		0														
1787	P8-OF3623	Rebar fixing for outfall Wall	1	03-Feb-2023 A	03-Feb-2023 A		0														
1788	P8-OF3631	Erect formwork for outfall Wall (2nd side)	6	04-Feb-2023 A	09-Feb-2023 A		0														
1789	P8-OF3651	Outfall Wall concreting	5	10-Feb-2023 A	14-Feb-2023 A		0														
1790	P8-OF3661	Dismantle Wall Formwork	3	15-Feb-2023 A	17-Feb-2023 A		0														
1791	P8-OF3671	Reinstatement by Rockfill	2	18-Feb-2023 A	20-Feb-2023 A		0														
1792	P8-OF3731	Sheet Pile Installation from Outfall 5100A to SMH_KTCP5100A	23	21-Feb-2023 A	20-Mar-2023 A		0														
1793	P8-OF3741	ELS of open trench from Outfall 5100A to SMH_KTCP5100A	17	22-Mar-2023 A	11-Apr-2023 A		0														
1794	P8-OF3751	Drain Laying from Outfall 5100A to SMH_KTCP5100A	7	12-Apr-2023 A	20-Apr-2023 A		0														
1795	P8-OF3756	Remove remaining side sheet pile & rock fill	6																		

#	Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	TRA	2024													
								Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1796	P8-OF3761	Backfilling to at grade level	18	29-Apr-2023 A	18-May-2023 A		1														
1797	Manhole 5100A		217	10-Nov-2023 A	14-Dec-2023 A			2023 A, Manhole 5100A													
1798	P8-OF3767	Construction of Manhole SMH_KT 5100	20	10-Nov-2023 A	28-Nov-2023 A		1														
1799	P8-OF3777	Backfilling to at grade level	18	28-Nov-2023 A	14-Dec-2023 A		1														
1800	P8-OF3787	Report Completion of Drainage works	0		14-Dec-2023 A		0														
1801	Outfall 5101		321	19-Jan-2023 A	19-May-2023 A																
1802	P8-OF3896	Removal of Grasscrete and concrete materials	2	19-Jan-2023 A	20-Jan-2023 A		0														
1803	P8-OF3906	Excavation to formation level	1	01-Feb-2023 A	01-Feb-2023 A		0														
1804	P8-OF3916	Laying of silt curtain and delivery of concrete block	1	02-Feb-2023 A	02-Feb-2023 A		0														
1805	P8-OF3926	Pour Concrete Blinding	1	03-Feb-2023 A	03-Feb-2023 A		0														
1806	P8-OF3936	Erect formwork for Vertical blinding for base slab shear key	1	04-Feb-2023 A	04-Feb-2023 A		0														
1807	P8-OF3946	Pour Concrete shear key blinding	1	06-Feb-2023 A	06-Feb-2023 A		0														
1808	P8-OF3956	Strip off formwork for shear key	1	07-Feb-2023 A	07-Feb-2023 A		0														
1809	P8-OF3966	Erect formwork for Shear key	1	08-Feb-2023 A	08-Feb-2023 A		0														
1810	P8-OF3976	Erect formwork for oufall base slab	1	09-Feb-2023 A	09-Feb-2023 A		0														
1811	P8-OF3986	Erect formwork for oufall Wall (1st side)	10	10-Feb-2023 A	20-Feb-2023 A		0														
1812	P8-OF3996	Rebar fixing for oufall base slab	9	21-Feb-2023 A	01-Mar-2023 A		0														
1813	P8-OF4006	Outfall Baseslab concreting	1	02-Mar-2023 A	02-Mar-2023 A		0														
1814	P8-OF4016	Dismantle Base slab Formwork	2	03-Mar-2023 A	04-Mar-2023 A		0														
1815	P8-OF4026	Rebar fixing for oufall Wall	1	06-Mar-2023 A	07-Mar-2023 A		0														
1816	P8-OF4036	Erect formwork for oufall Wall (2nd side)	6	08-Mar-2023 A	13-Mar-2023 A		0														
1817	P8-OF4046	Outfall Wall concreting	5	14-Mar-2023 A	17-Mar-2023 A		0														
1818	P8-OF4056	Dismantle Wall Formwork	3	20-Mar-2023 A	22-Mar-2023 A		0														
1819	P8-OF4066	Sheet Pile Installation from Outfall 5101A to SMH_KT5101A	7	23-Mar-2023 A	29-Mar-2023 A		0														
1820	P8-OF4076	ELS of open trench from Outfall 5101A to SMH_KT5101A	9	30-Mar-2023 A	12-Apr-2023 A		0														
1821	P8-OF4086	Drain Laying from Outfall 5101A to SMH_KT5101A	7	13-Apr-2023 A	19-Apr-2023 A		0														
1822	P8-OF4096	Remove remaining side sheet pile & rock fill	6	22-Apr-2023 A	27-Apr-2023 A		0														
1823	P8-OF4106	Backfilling to at grade level	18	02-May-2023 A	19-May-2023 A		1														
1824	P8-OF4116	Report Completion of Drainage works	0		19-May-2023 A		0														
1825	Sewer Installation at SMH_KT5101A to OF5101(50m) (Open Cut)		168	01-Sep-2023 A	27-Mar-2024	-232		27-Mar-2024, Sewer Installation at SMH_KT5101A to OF5101(50m) (Open Cut)													
1826	P8-3010	Sheet Pile Installation	21	01-Sep-2023 A	20-Sep-2023 A		1														
1827	P8-3020	Soft Excavation to 1st strut level	32	15-Sep-2023 A	17-Oct-2023 A		1														
1828	P8-3025	Installation of strut S1	34	18-Sep-2023 A	21-Oct-2023 A		1														
1829	P8-3030	Soft Excavation to 2nd strut level	34	26-Sep-2023 A	31-Oct-2023 A		1														
1830	P8-3035	Installation of strut S2	36	12-Oct-2023 A	15-Nov-2023 A		1														
1831	P8-3040	Soft Excavation to F.L. ; (approx. 6.5m depth)	32	26-Oct-2023 A	24-Nov-2023 A		1														
1832	P8-3060	Bedding and Pipe Laying (Twins DN700)	37	24-Nov-2023 A	30-Dec-2023 A		1														
1833	Manhole 5101A		74	15-Jan-2024 A	27-Mar-2024	-232		27-Mar-2024, Manhole 5101A													
1834	P8-OF-3070	Construction of Manhole SMH_KT 5101	20	15-Jan-2024 A	17-Feb-2024 A		1														
1835	P8-OF-3080	Backfilling to at grade level	18	19-Feb-2024 A	27-Mar-2024	-232	1														
1836	P8-OF-3090	Report Completion of Drainage works	0		27-Mar-2024	-232	0														
1837	Outfall 5103		476	20-Mar-2023 A	10-Jun-2023 A																
1838	P8-OF1640	Removal of Grasscrete and concrete materials	2	20-Mar-2023 A	21-Mar-2023 A		0														
1839	P8-OF1650	Excavation to formation level	3	22-Mar-2023 A	24-Mar-2023 A		0														
1840	P8-OF1660	Laying of silt curtain and delivery of concrete block	6	24-Mar-2023 A	29-Mar-2023 A		0														
1841	P8-OF1670	Pour Concrete Blinding	5	29-Mar-2023 A	01-Apr-2023 A		0														
1842	P8-OF1680	Erect formwork for Vertical blinding for base slab shear key	6	01-Apr-2023 A	11-Apr-2023 A		0														
1843	P8-OF1690	Pour Concrete shear key blinding	2	11-Apr-2023 A	12-Apr-2023 A		0														
1844	P8-OF1700	Strip off formwork for shear key	1	12-Apr-2023 A	12-Apr-2023 A		0														
1845	P8-OF1710	Erect formwork for Shear key	6	12-Apr-2023 A	17-Apr-2023 A		0														
1846	P8-OF1720	Erect formwork for oufall base slab	1	18-Apr-2023 A	18-Apr-2023 A		0														
1847	P8-OF1730	Erect formwork for oufall Wall (1st side)	3	19-Apr-2023 A	21-Apr-2023 A		0														
1848	P8-OF1740	Rebar fixing for oufall base slab	2	21-Apr-2023 A	22-Apr-2023 A		0														
1849	P8-OF1750	Outfall Baseslab concreting	6	22-Apr-2023 A	27-Apr-2023 A		0														
1850	P8-OF1760	Dismantle 1st pour Wall Formwork	3	27-Apr-2023 A	29-Apr-2023 A		0														
1851	P8-OF1770	Dismantle Base slab Formwork	5	29-Apr-2023 A	04-May-2023 A		0														
1852	P8-OF1780	Rebar fixing for oufall Wall	3	04-May-2023 A	06-May-2023 A		0														
1853	P8-OF1790	Erect formwork for oufall Wall (2nd side)	2	06-May-2023 A	08-May-2023 A		0														
1854	P8-OF1800	Outfall Wall concreting	2	08-May-2023 A	09-May-2023 A		0														
1855	P8-OF1810	Dismantle Wall Formwork	2	10-May-2023 A	11-May-2023 A		0														
1856	P8-OF3836	Sheet Pile Installation from Outfall 5103 to SMH_KT5103	23	11-May-2023 A	01-Jun-2023 A		0														
1857	P8-OF3846	ELS of open trench from Outfall 5103 to SMH_KT5103	11	01-Jun-2023 A	06-Jun-2023 A		0														
1858	P8-OF3856	Drain Laying from Outfall 5103 to SMH_KT5103	7	06-Jun-2023 A	08-Jun-2023 A		0														
1859	P8-OF3866	Remove remaining side sheet pile & rock fill	6	08-Jun-2023 A	10-Jun-2023 A		0														
1860	Sewer Installation at SMH_KT5103 to OF 5103 (50m) (Open Cut)		95	29-Feb-2024	04-Jun-2024	-300		04-Jun-2024, Sewer Installation at SMH_KT5103 to OF 5103 (50m) (Open Cut)													
1861	P8-3210	Sheet Pile Installation	17	29-Feb-2024	15-Mar-2024	-300	1														
1862	P8-3220	Soft Excavation to 1st strut level	14	07-Mar-2024	20-Mar-2024	-300	1														
1863	P8-3225	Installation of strut S1	17	13-Mar-2024	02-Apr-2024	-300	1														
1864	P8-3230	Soft Excavation to 2nd strut level	14	21-Mar-2024	06-Apr-2024	-300	1														
1865	P8-3235	Installation of strut S2	17	25-Mar-2024	15-Apr-2024	-300	1														
1866	P8-3240	Soft Excavation to F.L. ; (approx. 6.5m depth)	11	10-Apr-2024	20-Apr-2024	-300	1														
1867	P8-3250	Bedding & Pipe Laying (Level -1.64mPD to -0.027mPD)	23	05-Apr-2024	26-Apr-2024	-300	1														
1868	Manhole 5103A		38	26-Apr-2024	04-Jun-2024	-300		04-Jun-2024, Manhole 5103A													
1869	P8-OF3270	Construction of Manhole SMH_KT 5103	20	26-Apr-2024	17-May-2024	-300	1														
1870	P8-OF3876	Backfilling to at grade level	18	17-May-2024	04-Jun-2024	-300	1														
1871	P8-OF3886	Report Completion of Drainage works	0		04-Jun-2024	-169	0														
1872	NS 250 PE Pipe Installation (From KT1.47A to KT6.03A)		121	29-Feb-2024	28-Jun-2024	-324		28-Jun-2024, NS 250 PE Pipe Installation (From KT1.47A to KT6.03A)													
1873	P8-6900	Sheet Pile Installation for open trench	35	29-Feb-2024	05-Apr-2024	-324															
1874	P8-7000	Soft Excavation to 1st strut level	40	21-Mar-2024	03-May-2024	-324															
1875	P8-7010	Installation																			

#	Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	TRA	2024														
								Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
1876	P8-7020	Soft Excavation to 2nd strut level	30	17-Apr-2024	17-May-2024	-324																
1877	P8-7030	Installation of strut S2	30	27-Apr-2024	28-May-2024	-324																
1878	P8-7040	Soft Excavation to F.L.	25	07-May-2024	31-May-2024	-324																
1879	P8-7050	Bedding and Pipe Laying (NS 250 PE Pipe)	18	25-May-2024	12-Jun-2024	-324																
1880	P8-7060	Backfilling of drain to at grade level	18	12-Jun-2024	28-Jun-2024	-324																
1881	Underground Utilities		0			0																
1882	Reinstatement		143	26-Feb-2024 A	17-Jul-2024	-324																
1883	Road Reinstatement for Permanent DSD Maintenance Access		18	26-Feb-2024 A	13-Mar-2024	-206																
1884	P8-5276	Laying K1 Kerb works & u-channel, Trimming and Compaction works to formation level	10	26-Feb-2024 A	09-Mar-2024 A																	
1885	CH380 - CH420		14	29-Feb-2024 A	13-Mar-2024	-206																
1886	P8-5277	Bay 26 - Erect Rebar & Formwork and Pouring concrete to slab	3	11-Mar-2024 A	13-Mar-2024 A																	
1887	P8-5287	Bay 27-28 - Erect Rebar & Formwork and Pouring concrete to slab	3	29-Feb-2024*	02-Mar-2024	-206																
1888	P8-5307	Bay 29-30 - Erect Rebar & Formwork and Pouring concrete to slab	2	29-Feb-2024*	01-Mar-2024	-205																
1889	P8-5317	Report Completion of DSD maintenance access road reinstatement works	0		02-Mar-2024	-206																
1890	Remaining Reinstatement Works		18	29-Jun-2024	17-Jul-2024	-324																
1891	P8-9000	Road formation, reinstatement of disturbed landscape area & Tree Planting (35nos)	18	29-Jun-2024	17-Jul-2024	-324	18															
1892	Portion 9 - Footbridge		1401	16-Apr-2020 A	17-Jul-2024	750																
1893	Footbridge Construction		1401	16-Apr-2020 A	17-Jul-2024	750																
1894	Site Possession		174	16-Apr-2020 A	21-Aug-2020 A																	
1895	Site Preparation		24	18-Aug-2020 A	19-Sep-2020 A																	
1896	South River Embankment		1100	21-Sep-2020 A	25-Feb-2023 A																	
1897	North River Embankment		1084	21-Sep-2020 A	11-Feb-2023 A																	
1898	Middle Bridge Deck		217	01-Mar-2023 A	06-Sep-2023 A																	
1899	Remaining Footbridge Works		323	01-Sep-2023 A	17-Jul-2024	-325																
1900	Northern Footway Ramp / Staircase		251	01-Sep-2023 A	08-May-2024	-325																
1901	P9-NR1000	Excavate to formation level +5.2mPD	5	01-Sep-2023 A	04-Sep-2023 A		5															
1902	P9-NR1010	RC Works for Lower Portion of ramp foundation	9	04-Sep-2023 A	12-Sep-2023 A		5															
1903	P9-NR1020	Formwork dismantle and backfill to finishing ground level	6	12-Sep-2023 A	18-Sep-2023 A		5															
1904	P9-NR1030	RC Works for Upper portion of ramp wall, Staircase Bay 3 and parapet and Lower ground level U Channel	8	18-Sep-2023 A	25-Sep-2023 A		5															
1905	P9-NR1035	Works Resumption after Construction & Shifting of Cycle Track and Footpath from Temporary to Permanent (Portion 8)	0		11-Apr-2024	-325																
1906	P9-NR1036	Construction of Staircase Bay 1 and Bay 2	5	11-Apr-2024	16-Apr-2024	-325																
1907	P9-NR1040	Placing drainage materials and Compacted Fill to the void of ramp	7	16-Apr-2024	23-Apr-2024	-325	5															
1908	P9-NR1050	Construction of Upper level U Channel	5	23-Apr-2024	26-Apr-2024	-325	5															
1909	P9-NR1060	Laying concrete pavement layer and finishing layer	7	26-Apr-2024	04-May-2024	-325	5															
1910	P9-NR1070	Installation of steel Railing	7	26-Apr-2024	04-May-2024	-325	5															
1911	P9-NR1080	Installation of Gabion Wall	5	04-May-2024	08-May-2024	-325	5															
1912	Southern Footway Ramp / Staircase		123	06-Sep-2023 A	05-Jan-2024 A																	
1913	P9-SR1000	Excavate to formation level +5.2mPD	5	06-Sep-2023 A	09-Sep-2023 A		5															
1914	P9-SR1010	RC Works for Lower Portion of ramp foundation	9	11-Sep-2023 A	03-Oct-2023 A		5															
1915	P9-SR1020	Formwork dismantle and backfill to finishing ground level	6	04-Oct-2023 A	09-Oct-2023 A		5															
1916	P9-SR1030	RC Works for Upper portion of ramp wall, staircase and parapet and Lower ground level U Channel	8	09-Oct-2023 A	16-Oct-2023 A		5															
1917	P9-SR1040	Placing drainage materials and Compacted Fill to the void of ramp	7	16-Oct-2023 A	02-Dec-2023 A		5															
1918	P9-SR1050	Construction of Upper level U Channel	5	02-Dec-2023 A	12-Dec-2023 A		5															
1919	P9-SR1060	Laying concrete pavement layer and finishing layer	7	12-Dec-2023 A	22-Dec-2023 A		5															
1920	P9-SR1070	Installation of steel Railing	7	22-Dec-2023 A	30-Dec-2023 A		5															
1921	P9-SR1080	Installation of Gabion Wall	5	02-Jan-2024 A	05-Jan-2024 A		5															
1922	Slope Reinstatement		30	01-Dec-2023 A	08-Feb-2024 A																	
1923	P9-1100	Slope reinstatement works along Sheung Yue River under abutment of FK2 Footbridge (North)	30	01-Dec-2023 A	08-Feb-2024 A																	
1924	P9-1101	Slope reinstatement works along Sheung Yue River under abutment of FK2 Footbridge (South)	30	01-Dec-2023 A	08-Feb-2024 A																	
1925	ABWF Works		138	15-Dec-2023 A	04-May-2024	-272																
1926	P9-1613	Laying of footbridge deck pavings	20	15-Dec-2023 A	06-Mar-2024 A		2															
1927	P9-1614	Installation of balustrade, floor tile and drainage cover	16	15-Dec-2023 A	18-Mar-2024	-248																
1928	P9-1621	Metal Parapet and Handrail Installation	20	15-Mar-2024	08-Apr-2024	-265	2															
1929	P9-1631	Laying of staircase finishes	20	15-Apr-2024	04-May-2024	-272	2															
1930	BS Works		83	01-Dec-2023 A	08-May-2024	-318																
1931	P9-1595	Bridge Pillar Box Installation	15	01-Dec-2023 A	15-Dec-2023 A		3															
1932	P9-1601	Bridge Cable Laying for Lamp Post	15	15-Dec-2023 A	06-Mar-2024	-256	3															
1933	P9-1602	Bridge Lamp Post Installation	15	06-Feb-2024 A	05-Mar-2024 A		3															
1934	P9-1603	South Bridge Drainage works	35	28-Dec-2023 A	08-May-2024	-325	2															
1935	Landscape Works		72	08-May-2024	17-Jul-2024	-325																
1936	P9-1615	Formation of Slope profile by rock fill	14	08-May-2024	22-May-2024	-325	2															
1937	P9-1617	Placing soil erosion control system (Incl. control mats, geotextile and soil fill)	20	23-May-2024	11-Jun-2024	-325	2															
1938	P9-1619	Paving block laying to finished floor level	14	12-Jun-2024	25-Jun-2024	-325	2															
1939	P9-1623	Hydroseeding and tree planting works (11nos)	24	25-Jun-2024	17-Jul-2024	-325	2															
1940	Works in Section 4		1782	03-Aug-2020 A	27-May-2025	432																
1941	Portion 10 - Visitor Centre		1782	03-Aug-2020 A	27-May-2025	432																
1942	Site Possession		0	03-Aug-2020 A	03-Aug-2020 A																	
1943	P10-1000	Possession of site - Portion 10	0	03-Aug-2020 A			0															
1944	Pre-construction works		1493	03-Aug-2020 A	04-Sep-2024	335																
1945	Visitor Centre		1640	06-Oct-2020 A	27-May-2025	432																
1946	Foundation		273	06-Oct-2020 A	28-Aug-2021 A																	
1947	P10-2000	Pre-Drilling (~10nos.)	20	06-Oct-2020 A	31-Dec-2020 A		2															
1948	P10-2005	Tree Removal & Site Setup	34	05-Jan-2021 A	20-Feb-2021 A																	
1949	P10-2010	Install H-pile (59 nos.; 1 pile / week/rig, 2 rigs)	185	20-Feb-2021 A	03-Aug-2021 A		20															
1950	P10-2020	Pile Load Test	21	04-Aug-2021 A	17-Aug-2021 A		2															
1951	P10-2070	Proof Drilling	10	18-Aug-2021 A	28-Aug-2021 A																	
1952	Excavation		93	28-Sep-2021 A	28-Dec-2021 A																	

■ Primary Baseline ■ Critical Remaining Work

#	Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	TRA	2024													
								Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
1953	P10-2030	Excavation and Placement of Concrete Block along the ELS boundary	10	28-Sep-2021 A	06-Oct-2021 A		2														
1954	P10-2040	Sheetpile installation (~85m; approx. 425nos.)	7	08-Dec-2021 A	15-Dec-2021 A		1														
1955	P10-2050	Soil Excavation to F.L. for low level Pile Cap (~3840cu.m)	30	10-Dec-2021 A	28-Dec-2021 A		3														
Substructure			416	17-Dec-2021 A	15-Feb-2023 A																
Low Level Pile Cap and Basement Slab			140	17-Dec-2021 A	20-May-2022 A																
Bay 1			122	17-Dec-2021 A	01-Apr-2022 A																
1959	P10-2060	Grout Breaking of Socket H Piles (23nos)	7	17-Dec-2021 A	22-Dec-2021 A		2														
1960	P10-2060-1	Low Level Pile Head treatment and Capping Plate Installation	7	30-Dec-2021 A	07-Jan-2022 A		2														
1961	P10-2110.11	Backfill with Grade 200 Rockfill	6	17-Jan-2022 A	21-Jan-2022 A		1														
1962	P10-2110.13	Erection of formwork for Vertical Blinding	15	22-Jan-2022 A	08-Feb-2022 A		1														
1963	P10-2110.23	Concreting of Vertical Blinding	1	09-Feb-2022 A	09-Feb-2022 A		1														
1964	P10-2110.24	Patching and remedial works for concrete blinding before waterproofing laying	7	10-Feb-2022 A	16-Feb-2022 A		1														
1965	P10-2110.32	Laying of Waterproofing Membrane and testing	14	28-Feb-2022 A	14-Mar-2022 A		1														
1966	P10-2110.33	Rebar fixing of Pile Cap and Slab	16	15-Mar-2022 A	30-Mar-2022 A		1														
1967	P10-2110.43	Base Slab Shutters	3	29-Mar-2022 A	31-Mar-2022 A		1														
1968	P10-2110.53	Base Slab and Pile Cap Concreting (1st Bay)	1	01-Apr-2022 A	01-Apr-2022 A		1														
Bay 2 (Excl. Sump Pump)			139	30-Dec-2021 A	20-May-2022 A																
1970	P10-2110.043	Grout Breaking of Socket H Piles (19nos)	3	30-Dec-2021 A	04-Jan-2022 A		2														
1971	P10-2110.053	Low Level Pile Head treatment and Capping Plate Installation	14	03-Jan-2022 A	15-Jan-2022 A		2														
1972	P10-2110.063	Backfill with Grade 200 Rockfill	5	17-Jan-2022 A	21-Jan-2022 A		1														
1973	P10-2110.073	Erection of formwork for Vertical Blinding	9	31-Jan-2022 A	11-Feb-2022 A		1														
1974	P10-2110.083	Concreting of Vertical Blinding	1	09-Feb-2022 A	09-Feb-2022 A		1														
1975	P10-2110.084	Patching and remedial works for concrete blinding before waterproofing laying	7	10-Feb-2022 A	16-Feb-2022 A		1														
1976	P10-2110.093	Laying of Waterproofing Membrane and testing (Excl. sump pump location)	9	09-Mar-2022 A	17-Mar-2022 A		1														
1977	P10-2110.103	Rebar fixing of Pile Cap and Slab	8	03-May-2022 A	10-May-2022 A		1														
1978	P10-2110.109	Rebar fixing of Pile Cap and Slab	2	14-May-2022 A	16-May-2022 A		1														
1979	P10-2110.113	Base Slab Shutters	3	17-May-2022 A	19-May-2022 A		1														
1980	P10-2110.123	Base Slab and Pile Cap Concreting (2nd Bay)	1	20-May-2022 A	20-May-2022 A		1														
Bay 3 (Incl. Sump Pump)			81	01-Mar-2022 A	20-May-2022 A																
1982	P10-2110.511	Patching and remedial works for concrete blinding before waterproofing laying of sump pump location	34	01-Mar-2022 A	01-Apr-2022 A		1														
1983	P10-2110.513	Laying of Waterproofing Membrane and testing of sump pump location	6	02-Apr-2022 A	07-Apr-2022 A		1														
1984	P10-2110.543	Rebar fixing of Pile Cap and Slab	8	03-May-2022 A	10-May-2022 A		1														
1985	P10-2110.553	Base Slab Shutters	6	14-May-2022 A	19-May-2022 A		1														
1986	P10-2110.563	Base Slab and Pile Cap Concreting (3rd Bay)	1	20-May-2022 A	20-May-2022 A		1														
Basement Walls & Columns			245	02-Apr-2022 A	07-Dec-2022 A																
Basement Retaining Wall Bay 1			50	02-Apr-2022 A	02-Jun-2022 A																
1989	P10-2120.19	Dismantle formwork of Basement Slab	5	02-Apr-2022 A	06-Apr-2022 A		2														
1990	P10-2120.21	Dismantle of Corner strut at +3.5mPD	2	07-Apr-2022 A	08-Apr-2022 A		2														
1991	P10-2120.31	Basement wall (1st side) Formwork to +7.6mPD	8	09-Apr-2022 A	20-Apr-2022 A		2														
1992	P10-2120.35	Basement wall Falsework and working platform to +7.6mPD	18	12-Apr-2022 A	29-Apr-2022 A		2														
1993	P10-2120.41	Basement wall Rebar Fixing to +7.6mPD	25	18-Apr-2022 A	10-May-2022 A		2														
1994	P10-2120.47	Basement wall Rebar Fixing to +7.6mPD	3	14-May-2022 A	17-May-2022 A		2														
1995	P10-2120.51	Basement wall (2nd side) Formwork to +7.6mPD	9	18-May-2022 A	26-May-2022 A		2														
1996	P10-2120.51.2	Basement wall (2nd side) Formwork to +7.6mPD	5	28-May-2022 A	01-Jun-2022 A		2														
1997	P10-2120.61	Concreting of Basement wall to +7.6mPD	1	02-Jun-2022 A	02-Jun-2022 A		2														
Basement Retaining Wall Bay 2			47	21-May-2022 A	07-Jul-2022 A																
1999	P10-2120.106	Basement wall (1st side) Formwork to +7.6mPD	6	21-May-2022 A	26-May-2022 A		2														
2000	P10-2120.110	Basement wall (1st side) Formwork to +7.6mPD	2	28-May-2022 A	30-May-2022 A		2														
2001	P10-2120.116	Basement wall Falsework and working platform to +7.6mPD	14	31-May-2022 A	14-Jun-2022 A		2														
2002	P10-2120.126	Basement wall Rebar Fixing to +7.6mPD	1	04-Jun-2022 A	04-Jun-2022 A		2														
2003	P10-2120.131	Basement wall Rebar Fixing to +7.6mPD	1	10-Jun-2022 A	10-Jun-2022 A		2														
2004	P10-2120.133	Basement wall Rebar Fixing to +7.6mPD	2	13-Jun-2022 A	14-Jun-2022 A		2														
2005	P10-2120.135	Basement wall Rebar Fixing to +7.6mPD	10	16-Jun-2022 A	25-Jun-2022 A		2														
2006	P10-2120.136	Basement wall (2nd side) Formwork to +7.6mPD	1	10-Jun-2022 A	10-Jun-2022 A		2														
2007	P10-2120.140	Basement wall (2nd side) Formwork to +7.6mPD	2	13-Jun-2022 A	14-Jun-2022 A		2														
2008	P10-2120.146	Basement wall (2nd side) Formwork to +7.6mPD	14	16-Jun-2022 A	29-Jun-2022 A		2														
2009	P10-2120.150	Basement wall (2nd side) Formwork to +7.6mPD	2	05-Jul-2022 A	06-Jul-2022 A		2														
2010	P10-2120.152	Concreting of Basement wall to +7.6mPD	1	07-Jul-2022 A	07-Jul-2022 A		2														
Column C4, C5, C8, C9, C12, C13 & C17			41	07-Jul-2022 A	11-Aug-2022 A																
2012	P10-2120.636	Basement Column Rebar Fixing to +7.6mPD	3	07-Jul-2022 A	09-Jul-2022 A		2														
2013	P10-2120.646	Basement Column Formwork to +7.6mPD	3	11-Jul-2022 A	13-Jul-2022 A		2														
2014	P10-2120.656	Concreting of Columns to +7.6mPD (C4, C8, C9, C13, C17)	1	14-Jul-2022 A	14-Jul-2022 A		2														
2015	P10-2120.657	Rebar and Formwork of Columns to +7.6mPD (C5, C12)	19	15-Jul-2022 A	03-Aug-2022 A		2														
2016	P10-2120.658	Rebar and Formwork of Columns to +7.6mPD (C5, C12)	2	06-Aug-2022 A	08-Aug-2022 A		2														
2017	P10-2120.659	Concreting of Columns to +7.6mPD (C5, C12)	1	11-Aug-2022 A	11-Aug-2022 A		2														
Basement Retaining Wall Bay 3			97	21-May-2022 A	31-Aug-2022 A																
2019	P10-2120.666	Basement wall (1st side) Formwork to +7.6mPD	6	21-May-2022 A	26-May-2022 A		2														
2020	P10-2120.676	Basement wall Falsework and working platform to +7.6mPD	7	28-May-2022 A	04-Jun-2022 A		2														
2021	P10-2120.686	Basement wall Rebar Fixing to +7.6mPD	1	10-Jun-2022 A	10-Jun-2022 A		2														
2022	P10-2120.686-2	Basement wall Rebar Fixing to +7.6mPD	2	13-Jun-2022 A	14-Jun-2022 A		2														
2023	P10-2120.686-4	Basement wall Rebar Fixing to +7.6mPD	14	16-Jun-2022 A	29-Jun-2022 A		2														
2024	P10-2120.686-7	Basement wall Rebar Fixing to +7.6mPD	6	05-Jul-2022 A	09-Jul-2022 A		2														
2025	P10-2120.696	Basement wall (2nd side) Formwork to +7.6mPD	19	11-Jul-2022 A	29-Jul-2022 A		2														
2026	P10-2120.696-2	Basement wall (2nd side) Formwork to +7.6mPD	3	01-Aug-2022 A	03-Aug-2022 A		2														
2027	P10-2120.706	Concreting of Basement wall to +7.6mPD	1	04-Aug-2022 A	04-Aug-2022 A		2														
2028	P10-2120.836	Dismantling of Basement wall formwork	2																		

#	Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	TRA	2024														
								Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
2112	P10-2120.226	Casting of Vertical Blinding	11	12-Sep-2022 A	23-Sep-2022 A		1															
2113	P10-2120.266	Rebar fixing of Pile Cap and Columns	6	24-Sep-2022 A	29-Sep-2022 A		1															
2114	P10-2120.276	Pile Cap Formwork erection	8	05-Oct-2022 A	14-Oct-2022 A		1															
2115	P10-2120.286	High Level Pile Cap Concreting	1	15-Oct-2022 A	15-Oct-2022 A		1															
2116	P10-2120.366	Erect Working Platform from Pile Cap Level to 1/F	6	01-Feb-2023 A	06-Feb-2023 A		1															
2117	P10-2120.376	Columns Rebar Fixing from Pile Cap Level to 1/F	6	07-Feb-2023 A	11-Feb-2023 A		1															
2118	P10-2120.386	Columns formwork from Pile Cap Level to 1/F	3	11-Feb-2023 A	14-Feb-2023 A		1															
2119	P10-2120.396	Concreting of Columns to 1/F	1	15-Feb-2023 A	15-Feb-2023 A		1															
2120	C19		75	01-Dec-2022 A	15-Feb-2023 A																	
2121	P10-2120.1272	Excavation to expose remaining pile head of C19 Pile Cap	3	01-Dec-2022 A	03-Dec-2022 A		2															
2122	P10-2120.1276	Grout Breaking of Socket H Piles	3	05-Dec-2022 A	07-Dec-2022 A		2															
2123	P10-2120.1286	High Level Pile Head treatment (2nos)	3	08-Dec-2022 A	10-Dec-2022 A		2															
2124	P10-2120.1296	Capping Plate Installation (1no)	3	12-Dec-2022 A	14-Dec-2022 A		1															
2125	P10-2120.1302	Rebar fixing of Pile Cap and Columns	5	03-Jan-2023 A	07-Jan-2023 A		1															
2126	P10-2120.1304	Pile Cap Formwork erection	3	09-Jan-2023 A	09-Jan-2023 A		1															
2127	P10-2120.1305	High Level Pile Cap Concreting	1	10-Jan-2023 A	10-Jan-2023 A		1															
2128	P10-2120.1307	Dismantling Formwork and install waterproofing Membrane	6	11-Jan-2023 A	16-Jan-2023 A		1															
2129	P10-2120.1309	Backfill to formation for erection of working platform	1	17-Jan-2023 A	31-Jan-2023 A		1															
2130	P10-2120.1314	Erect Working Platform from Pile Cap Level to 1/F	6	01-Feb-2023 A	06-Feb-2023 A		1															
2131	P10-2120.1316	Columns Rebar Fixing from Pile Cap Level to 1/F	6	06-Feb-2023 A	10-Feb-2023 A		1															
2132	P10-2120.1326	Columns formwork from Pile Cap Level to 1/F	3	11-Feb-2023 A	14-Feb-2023 A		1															
2133	P10-2120.1336	Concreting of Columns to 1/F	1	15-Feb-2023 A	15-Feb-2023 A		1															
2134	C3, C6		116	24-Oct-2022 A	15-Feb-2023 A																	
2135	P10-2120.318	Excavation to re-expose remaining pile head of Pile Caps	8	24-Oct-2022 A	31-Oct-2022 A		2															
2136	P10-2120.322	Grout Breaking of Socket H Piles	3	03-Nov-2022 A	07-Nov-2022 A		2															
2137	P10-2120.324	Remaining High Level Pile Head treatment and Capping Plate Installation	2	08-Nov-2022 A	10-Nov-2022 A		2															
2138	P10-2120.326	Casting of Vertical Blinding	2	26-Nov-2022 A	28-Nov-2022 A		1															
2139	P10-2120.336	Rebar fixing of Pile Cap, Column starter and Strap Beam	2	29-Nov-2022 A	30-Nov-2022 A		1															
2140	P10-2120.346	Pile Cap Formwork erection	2	30-Nov-2022 A	01-Dec-2022 A		1															
2141	P10-2120.356	High Level Pile Cap, Strap Beam & column kickers Concreting	1	02-Dec-2022 A	02-Dec-2022 A		1															
2142	P10-2120.406	Erect Working Platform from Pile Cap Level to 1/F	6	01-Feb-2023 A	06-Feb-2023 A		1															
2143	P10-2120.416	Columns Rebar Fixing from Pile Cap Level to 1/F	6	07-Feb-2023 A	11-Feb-2023 A		1															
2144	P10-2120.426	Columns formwork from Pile Cap Level to 1/F	3	11-Feb-2023 A	14-Feb-2023 A		1															
2145	P10-2120.436	Concreting of Columns to 1/F	1	15-Feb-2023 A	15-Feb-2023 A		1															
2146	C10, C14 & C18		75	01-Dec-2022 A	15-Feb-2023 A																	
2147	P10-2120.1360	Excavation to expose remaining pile head of Pile Caps	3	01-Dec-2022 A	03-Dec-2022 A		2															
2148	P10-2120.1376	Capping Plate Installation	23	05-Dec-2022 A	28-Dec-2022 A		1															
2149	P10-2120.1386	Rebar fixing of Pile Cap, Column starter and Strap Beam	5	04-Jan-2023 A	07-Jan-2023 A		1															
2150	P10-2120.1396	Pile Cap Formwork erection	3	09-Jan-2023 A	11-Jan-2023 A		1															
2151	P10-2120.1406	High Level Pile Cap, Strap Beam & column kickers Concreting	1	12-Jan-2023 A	12-Jan-2023 A		1															
2152	P10-2120.1446	Erect Working Platform from Pile Cap Level to 1/F	6	01-Feb-2023 A	06-Feb-2023 A		1															
2153	P10-2120.1456	Columns Rebar Fixing from Pile Cap Level to 1/F	5	07-Feb-2023 A	10-Feb-2023 A		1															
2154	P10-2120.1466	Columns formwork from Pile Cap Level to 1/F	3	11-Feb-2023 A	14-Feb-2023 A		1															
2155	P10-2120.1476	Concreting of Columns to 1/F	1	15-Feb-2023 A	15-Feb-2023 A		1															
2156	Superstructure		369	10-Nov-2022 A	06-Nov-2023 A																	
2157	Ground Floor to Roof Floor		369	10-Nov-2022 A	06-Nov-2023 A																	
2158	B/F to G/F Wall and G/F Slab		280	10-Nov-2022 A	12-Aug-2023 A																	
2159	Bay 1		36	21-Nov-2022 A	29-Dec-2022 A																	
2160	P10-2350	Erection of falsework and working platform for B/F to G/F	3	21-Nov-2022 A	28-Nov-2022 A		1															
2161	P10-2390	Erection of falsework for G/F Slab	8	29-Nov-2022 A	06-Dec-2022 A		1															
2162	P10-2400	Erection of Formwork for G/F Slab	8	07-Dec-2022 A	14-Dec-2022 A		1															
2163	P10-2410	Rebar Fixing for G/F Slab	8	15-Dec-2022 A	22-Dec-2022 A		1															
2164	P10-2420	G/F Slab Shutters	5	23-Dec-2022 A	28-Dec-2022 A		1															
2165	P10-2430	G/F Slab & B/F to G/F wall Concreting	1	29-Dec-2022 A	29-Dec-2022 A		1															
2166	Bay 2		44	10-Nov-2022 A	20-Dec-2022 A																	
2167	Tx Room Cable Trench and slab		30	10-Nov-2022 A	07-Dec-2022 A																	
2168	P10-2120.776	Trench base slab Falsework / formwork supporting cable trench	8	10-Nov-2022 A	17-Nov-2022 A		2															
2169	P10-2120.786	Trench base slab Rebar fixing supporting cable trench	7	18-Nov-2022 A	24-Nov-2022 A		2															
2170	P10-2120.792	Trench side formwork	6	25-Nov-2022 A	26-Nov-2022 A		2															
2171	P10-2120.796	Trench base slab concreting supporting cable trench	1	28-Nov-2022 A	28-Nov-2022 A		2															
2172	P10-2120.806	Cable trench Wall / Cover slab formwork	5	29-Nov-2022 A	02-Dec-2022 A		2															
2173	P10-2120.816	Cable trench Wall / Cover slab Rebar fixing	2	05-Dec-2022 A	06-Dec-2022 A		2															
2174	P10-2120.826	Cable trench Wall / Cover slab Concreting	1	07-Dec-2022 A	07-Dec-2022 A		2															
2175	G/F Slab		14	08-Dec-2022 A	20-Dec-2022 A																	
2176	P10-4170	Erection of Formwork for G/F Slab	5	08-Dec-2022 A	12-Dec-2022 A		1															
2177	P10-4180	Rebar Fixing for G/F Slab	3	13-Dec-2022 A	15-Dec-2022 A		1															
2178	P10-4190	G/F Slab Shutters	3	16-Dec-2022 A	19-Dec-2022 A		1															
2179	P10-4200	G/F Slab concreting	1	20-Dec-2022 A	20-Dec-2022 A		1															
2180	Bay 4 (On Grade Slab) (Toilet)		57	20-Jun-2023 A	12-Aug-2023 A																	
2181	P10-2110.112	Dismantle falseworks from G/F to 1/F	7	20-Jun-2023 A	06-Jul-2023 A		2															
2182	P10-2110.143	Laying Underground Drainage and testing	23	06-Jul-2023 A	04-Aug-2023 A		1															
2183	P10-2110.153	Backfilling of Drainages	1	05-Aug-2023 A	05-Aug-2023 A		1															
2184	P10-2110.173	Rebar fixing of on grade Slab	6	05-Aug-2023 A	10-Aug-2023 A		1															
2185	P10-2110.183	Base Slab formwork shutters	2	10-Aug-2023 A	11-Aug-2023 A		1															
2186	P10-2110.193	G/F On Grade Slab Concreting	1	12-Aug-2023 A	12-Aug-2023 A		1															

#	Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	TRA	2024														
								Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
2348	P10-GFGS1150	Cable wiring	13	28-Sep-2023 A	18-Oct-2023 A		0															
2349	P10-GFGS1160	Installation of Lighting fitting and small power provision	18	18-Oct-2023 A	04-Nov-2023 A		0															
2350	P10-GFGS1170	Genset Installation	24	04-Nov-2023 A	06-Feb-2024 A		0															
2351	P10-GFGS1180	T&C of Genset	8	06-Feb-2024 A	21-Mar-2024	770	0															
2352	FS		72	30-Sep-2023 A	16-Feb-2024 A																	
2353	P10-GFGS1090	FS Piping, cable containment Installation	24	30-Sep-2023 A	09-Feb-2024 A		0															
2354	P10-GFGS1100	FS Sprinkler head, Alarm smoke detector, heat detector installation	17	06-Nov-2023 A	16-Feb-2024 A		0															
2355	Tx Room / Switch Room		375	28-Mar-2023 A	03-Apr-2024	856																
2356	ABWF		231	28-Mar-2023 A	10-Nov-2023 A																	
2357	P10-Tx1000	Access Date of G/F Tx Room / Switch Room Fitting Out	0	28-Mar-2023 A																		
2358	P10-Tx1100	Setting Out	2	18-Apr-2023 A	24-Apr-2023 A		0															
2359	P10-Tx1105	Access Date of Tx Room Double Slab Builders works	0	24-Apr-2023 A																		
2360	P10-Tx1107	Formwork dismantling and touch up works	3	01-May-2023 A	02-May-2023 A		0															
2361	P10-Tx1108	Waterproofing works of Tx Room Double Slab	3	03-May-2023 A	05-May-2023 A		0															
2362	P10-Tx1109	Flooding Test and Infra Red test after waterproofing	2	06-May-2023 A	09-May-2023 A		0															
2363	P10-Tx1110	Erect Scaffolding for wall and ceiling finishes of Tx Rm	1	10-May-2023 A	10-May-2023 A		0															
2364	P10-Tx1120	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	6	11-May-2023 A	18-May-2023 A		0															
2365	P10-Tx1130	Wall Finishes (Wall plastering, Louvre Frame, Wall Tiling, Skim Coat and 1st Coat Painting)	5	19-May-2023 A	23-May-2023 A		0															
2366	P10-Tx1140	Cable Trench Plastering	6	23-May-2023 A	30-May-2023 A		0															
2367	P10-Tx1150	Cable Trench Angle Frame Installation	2	30-May-2023 A	31-May-2023 A		0															
2368	P10-Tx1160	Floor Screeding	2	01-Jul-2023 A	05-Jul-2023 A		0															
2369	P10-Tx1170	Metal Door Frame Installation	2	06-Jul-2023 A	08-Jul-2023 A		0															
2370	P10-Tx1180	Ceiling And Wall Painting (Final Coat)	2	10-Jul-2023 A	14-Jul-2023 A		0															
2371	P10-Tx1190	Chequer Plate Installation	2	10-Jul-2023 A	13-Jul-2023 A		0															
2372	P10-Tx1195	Louvers Installation	2	01-Nov-2023 A	02-Nov-2023 A		0															
2373	P10-Tx1200	Painting to Chequer Plate	2	03-Nov-2023 A	04-Nov-2023 A		0															
2374	P10-Tx1210	Floor Dust Proof Coating	2	06-Nov-2023 A	07-Nov-2023 A		0															
2375	P10-Tx1220	Durasteel Installation to Air Duct	2	08-Nov-2023 A	09-Nov-2023 A		0															
2376	P10-Tx1230	Metal Door Leaf Installation	1	10-Nov-2023 A	10-Nov-2023 A		0															
2377	BS Works		311	02-Jun-2023 A	03-Apr-2024	744																
2378	Electrical Works		117	02-Jun-2023 A	29-Sep-2023 A																	
2379	P10-Tx1240	Intallation (Electrical) of Conduit / Cable Containment at Tx Room	11	02-Jun-2023 A	26-Jun-2023 A		2															
2380	P10-Tx1250	Cable Wiring at Tx Room	11	26-Jun-2023 A	12-Jul-2023 A		2															
2381	P10-Tx1260	Installation of Light Fitting at Tx Room	5	12-Jul-2023 A	21-Jul-2023 A		2															
2382	P10-Tx1270	Delivery of Cable Tray	1	09-Sep-2023 A	09-Sep-2023 A		2															
2383	P10-Tx1530	Installation of Cable Tray over ceiling	5	09-Sep-2023 A	14-Sep-2023 A		2															
2384	P10-Tx1540	Installation (Electrical) of Conduit at Switch Room	5	14-Sep-2023 A	19-Sep-2023 A		2															
2385	P10-Tx1550	Cable Wiring at Switch Room	3	19-Sep-2023 A	23-Sep-2023 A		2															
2386	P10-Tx1560	Installation of Light Fitting at Switch Room	3	19-Sep-2023 A	23-Sep-2023 A		2															
2387	P10-Tx1570	FAT of Switchboard	1	23-Sep-2023 A	23-Sep-2023 A		2															
2388	P10-Tx1580	Delivery and assembly of Switchboard at Switch Room	1	09-Sep-2023 A	09-Sep-2023 A		2															
2389	P10-Tx1590	SAT of Switchboard	1	09-Sep-2023 A	09-Sep-2023 A		2															
2390	P10-Tx1600	Installation of MCB Board	5	14-Sep-2023 A	29-Sep-2023 A		2															
2391	P10-Tx1610	Installation of Earthing System at Tx Room and Switch Room	3	14-Sep-2023 A	16-Sep-2023 A		2															
2392	P10-Tx1620	System T&C (Electrical Works)	3	16-Sep-2023 A	19-Sep-2023 A		2															
2393	P10-Tx1630	Installation of Lighting conductors	3	16-Sep-2023 A	19-Sep-2023 A		2															
2394	P10-Tx1640	Installation of Lightning Pits	2	19-Sep-2023 A	20-Sep-2023 A		2															
2395	P10-Tx1650	Installation of Earthing Pits	2	20-Sep-2023 A	21-Sep-2023 A		2															
2396	P10-Tx1660	Earthing and Lightning T&C	1	21-Sep-2023 A	21-Sep-2023 A		2															
2397	MVAC Works		11	19-Sep-2023 A	28-Sep-2023 A																	
2398	P10-Tx1680	Intallation (MVAC) of Conduit at Tx Room	2	19-Sep-2023 A	20-Sep-2023 A		2															
2399	P10-Tx1690	Cable Wiring & Cable Containment (MVAC) of Conduit at Tx Room	2	20-Sep-2023 A	21-Sep-2023 A		2															
2400	P10-Tx1700	Installation of Fan and Air Duct at Tx Room	3	21-Sep-2023 A	23-Sep-2023 A		2															
2401	P10-Tx1710	Installation of Fan Controller at Tx Room	2	23-Sep-2023 A	25-Sep-2023 A		2															
2402	P10-Tx1720	Installation of Fan and Air Duct at Switchroom	2	25-Sep-2023 A	26-Sep-2023 A		2															
2403	P10-Tx1730	Installation of LMCP at Switchroom	2	26-Sep-2023 A	27-Sep-2023 A		2															
2404	P10-Tx1740	System T&C (MVAC Works)	2	27-Sep-2023 A	28-Sep-2023 A		2															
2405	FS Works		26	01-Sep-2023 A	25-Sep-2023 A																	
2406	P10-Tx1770	Intallation (FS) of Conduit at Tx Room	2	01-Sep-2023 A	02-Sep-2023 A		2															
2407	P10-Tx1780	Cable Wiring (FS) of Conduit at Tx Room	2	04-Sep-2023 A	05-Sep-2023 A		2															
2408	P10-Tx1790	Installation of Heat Detector at Tx Room	2	06-Sep-2023 A	07-Sep-2023 A		2															
2409	P10-Tx1800	Installation of (FS) Conduit at Switchroom	2	08-Sep-2023 A	09-Sep-2023 A		2															
2410	P10-Tx1810	Cable Wiring (FS) of Conduit at Switchroom	2	11-Sep-2023 A	12-Sep-2023 A		2															
2411	P10-Tx1820	Installation of Heat Detector at Switchroom	1	13-Sep-2023 A	13-Sep-2023 A		2															
2412	P10-Tx1830	Installation of AFA panel and audio / visual alarm equipment	1	14-Sep-2023 A	14-Sep-2023 A		2															
2413	P10-Tx1840	System T&C (FS Works)	1	25-Sep-2023 A	25-Sep-2023 A		2															
2414	CLP works & Statutory Inspection		124	30-Nov-2023 A	03-Apr-2024	744																
2415	P10-Tx2000	1st CLP Preinspection of Tx Room	1	30-Nov-2023 A	30-Nov-2023 A		2															
2416	P10-Tx2010	1st Defect Rectification	5	01-Dec-2023 A	05-Dec-2023 A		2															
2417	P10-Tx2015	Submit WR1	1	11-Dec-2023 A	11-Dec-2023 A		2															
2418	P10-Tx2020	2nd CLP Inspection of Tx Room	1	24-Jan-2024 A	24-Jan-2024 A		2															
2419	P10-Tx2030	2nd Defect Rectification	3	24-Jan-2024 A	26-Jan-2024 A		2															
2420	P10-Tx2040	Handover Inspection with CLP	1	24-Jan-2024 A	24-Jan-2024 A		2															
2421	P10-Tx2050	CLP Transformer Installation & T&C Works	35	05-Feb-2024 A	29-Feb-2024 A		2															
2422	P10-Tx2051	Excavation for external cable duct and draw pit	8	29-Feb-2024 A	07-Mar-2024 A																	
2423	P10-Tx2052	Cable laying at external cable duct and draw pit	8	07-Mar-2024 A	14-Mar-2024 A																	
2424	P10-Tx2053	Connection pit excavation and power outage for electricity connection (from external source to Tx & Switch Rm)	9	14-Mar-2024*	22-Mar-2024	744																
2425	P10-Tx2054	Installation of CLP electricity meter	1	22-Mar-2024*																		

#	Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	TRA	2024														
								Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
2428	P10-Tx2060	CLP Meter Installation (Permenant Power On)	1	03-Apr-2024	03-Apr-2024	744	2															
2429	FS Control Room		318	18-Apr-2023 A	15-Apr-2024	749		15-Apr-2024, FS Control Room														
2430	P10-GFFS1020	Access Date of G/F FS control Room Fitting Out	0	18-Apr-2023 A																		
2431	ABWF		238	22-Apr-2023 A	08-Dec-2023 A			23 A, ABWF														
2432	P10-GFFS1050	Setting Out	2	22-Apr-2023 A	24-Apr-2023 A	0																
2433	P10-GFFS1060	Erect Scaffolding for wall and ceiling finishes	2	26-Apr-2023 A	27-Apr-2023 A	0																
2434	P10-GFFS1070	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	9	27-Apr-2023 A	09-May-2023 A	0																
2435	P10-GFFS1080	Wall Finishes (Wall plastering, Skim Coat and 1st Coat Painting)	9	10-May-2023 A	23-May-2023 A	0																
2436	P10-GFFS1090	Floor Screeding	2	02-Jun-2023 A	03-Jun-2023 A	0																
2437	P10-GFFS1100	Concrete Plinth Casting and finishes	9	05-Jun-2023 A	07-Jul-2023 A	0																
2438	P10-GFFS1110	Access Panel Installation to FS control Room	4	15-Sep-2023 A	19-Sep-2023 A	0																
2439	P10-GFFS1120	Floor epoxy Painting & door installation	5	04-Dec-2023 A	08-Dec-2023 A	0																
2440	BS Works		159	15-Sep-2023 A	15-Apr-2024	749		15-Apr-2024, BS Works														
2441	MVAC		26	15-Sep-2023 A	06-Feb-2024 A			06-Feb-2024 A, MVAC														
2442	P10-GFFS1150	Setting out for all equipment / MOS inspection	3	15-Sep-2023 A	26-Sep-2023 A	0																
2443	P10-GFFS1160	Air Duct installation	20	27-Sep-2023 A	06-Feb-2024 A	0																
2444	EL		82	15-Sep-2023 A	07-Feb-2024 A			07-Feb-2024 A, EL														
2445	P10-GFFS1170	Setting out for all equipment / MOS inspection	11	15-Sep-2023 A	25-Sep-2023 A	0																
2446	P10-GFFS1180	Installation of cable containment	6	25-Sep-2023 A	01-Nov-2023 A	0																
2447	P10-GFFS1190	Cable wiring	11	01-Nov-2023 A	11-Nov-2023 A	0																
2448	P10-GFFS1200	Installation of Lighting fitting and small power provision	27	11-Nov-2023 A	07-Feb-2024 A	0																
2449	FS		116	07-Dec-2023 A	15-Apr-2024	749		15-Apr-2024, FS														
2450	P10-GFFS1130	FS Piping, cable containment Installation	34	07-Dec-2023 A	11-Jan-2024 A	0																
2451	P10-GFFS1140	FS Sprinkler head, Alarm smoke detector, heat detector installation	24	07-Dec-2023 A	01-Feb-2024 A	0																
2452	P10-GFFS1210	FS Control Panel / Direct Link Installation	17	07-Dec-2023 A	22-Dec-2023 A	0																
2453	P10-GFFS1220	T&C of FS Control Equipments	17	05-Feb-2024 A	15-Apr-2024	749	0															
2454	Ground Floor Male / Female / U-Toilet		252	02-Oct-2023 A	19-Apr-2024	819		19-Apr-2024, Ground Floor Male / Female / U-Toilet														
2455	ABWF		252	02-Oct-2023 A	19-Apr-2024	812		19-Apr-2024, ABWF														
2456	P10-GT1000	Access Date of G/F Toilet Fitting Out	0	02-Oct-2023 A																		
2457	P10-GT1010	Site Survey and setting out	3	06-Nov-2023 A	08-Nov-2023 A																	
2458	P10-GT1020	Block Wall Erection	7	09-Nov-2023 A	15-Nov-2023 A																	
2459	P10-GT1040	Waterproofing & testing	8	16-Nov-2023 A	23-Nov-2023 A																	
2460	P10-GT1050	Protected screed	3	30-Dec-2023 A	07-Feb-2024 A																	
2461	P10-GT1060	Ceiling Grid Installation	6	01-Feb-2024 A	07-Feb-2024 A																	
2462	P10-GT1070	Wall finishes and furring wall installation	10	07-Feb-2024 A	20-Feb-2024 A																	
2463	P10-GT1080	Floor finishes with protection	11	08-Feb-2024 A	20-Feb-2024 A																	
2464	P10-GT1085	Ceiling Board Installation	6	20-Feb-2024 A	02-Mar-2024	781																
2465	P10-GT1090	Vanity Counter Installation	6	29-Feb-2024*	05-Mar-2024	829																
2466	P10-GT1100	Door installation	3	20-Feb-2024 A	02-Mar-2024	852																
2467	P10-GT1110	Cubical installation	8	06-Apr-2024*	13-Apr-2024	812																
2468	P10-GT1120	Sanitary fitting installation	10	29-Feb-2024*	09-Mar-2024	829																
2469	P10-GT1130	Signage, accessories, air grille installation	6	13-Apr-2024*	18-Apr-2024	812																
2470	P10-GT1140	Inspection & cleaning	1	18-Apr-2024	19-Apr-2024	812																
2471	BS Works		195	01-Nov-2023 A	06-Apr-2024	833		06-Apr-2024, BS Works														
2472	MVAC		154	01-Nov-2023 A	06-Apr-2024	747		06-Apr-2024, MVAC														
2473	P10-GT1030	Setting out for all equipment / Conduit / Switches	2	01-Nov-2023 A	04-Nov-2023 A	0																
2474	P10-GT1150	MEP Conduit embedment	7	04-Nov-2023 A	10-Nov-2023 A	0																
2475	P10-GT1160	Air Duct installation	18	22-Dec-2023 A	14-Feb-2024 A	0																
2476	P10-GT1300	MVAC unit, Exhaust fans installation	18	22-Dec-2023 A	05-Feb-2024 A	0																
2477	P10-GT1310	T&C of MVAC system	2	05-Apr-2024	06-Apr-2024	747	0															
2478	FS		154	04-Nov-2023 A	06-Apr-2024	757		06-Apr-2024, FS														
2479	P10-GT1180	FS Piping, cable containment Installation	10	04-Nov-2023 A	05-Feb-2024 A	0																
2480	P10-GT1190	FS Sprinkler pipe overhead with ceiling installation	10	04-Nov-2023 A	07-Feb-2024 A	0																
2481	P10-GT1195	FS Sprinkler head, Alarm smoke detector, heat detector installation	10	04-Nov-2023 A	05-Feb-2024 A	0																
2482	P10-GT1200	T&C of FS system	2	05-Apr-2024	06-Apr-2024	757	0															
2483	PD		101	04-Nov-2023 A	06-Apr-2024	826		06-Apr-2024, PD														
2484	P10-GT1210	Setting out for pipeworks / San fit, & Installation of pipework at ceiling level	10	04-Nov-2023 A	02-Dec-2023 A	0																
2485	P10-GT1220	Installation of pipework connection to underground drainage	10	14-Dec-2023 A	23-Dec-2023 A	0																
2486	P10-GT1230	Installation of pipework connection to sanitary fitting	10	01-Feb-2024 A	09-Feb-2024 A	0																
2487	P10-GT1240	T&C of PD system	2	09-Feb-2024 A	06-Apr-2024	826	0															
2488	EL		195	30-Nov-2023 A	06-Apr-2024	833		06-Apr-2024, EL														
2489	P10-GT1250	Setting out for all equipment / MOS inspection	2	30-Nov-2023 A	01-Dec-2023 A	0																
2490	P10-GT1260	Installation of cable containment	9	02-Dec-2023 A	11-Dec-2023 A	0																
2491	P10-GT1270	Cable wiring	14	08-Dec-2023 A	21-Dec-2023 A	0																
2492	P10-GT1280	Installation of Lighting fitting and small power provision	11	18-Dec-2023 A	29-Dec-2023 A	0																
2493	P10-GT1290	T&C of Electrical System	2	05-Apr-2024	06-Apr-2024	833	0															
2494	BOH (Back of House)		395	22-Mar-2023 A	18-Apr-2024	842		18-Apr-2024, BOH (Back of House)														
2495	Material Recovery		327	22-Mar-2023 A	21-Feb-2024 A			21-Feb-2024 A, Material Recovery														
2496	ABWF		327	22-Mar-2023 A	07-Feb-2024 A			07-Feb-2024 A, ABWF														
2497	P10-GF-MR1000	Setting Out	2	22-Mar-2023 A	23-Mar-2023 A	0																
2498	P10-GF-MR1010	Erect Scaffolding for wall and ceiling finishes	2	12-Jul-2023 A	21-Jul-2023 A	0																
2499	P10-GF-MR1020	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	14	01-Nov-2023 A	07-Feb-2024 A	0																
2500	P10-GF-MR1030	Wall Finishes (Wall plastering, tiling)	14	01-Nov-2023 A	13-Nov-2023 A	0																
2501	P10-GF-MR1040	Floor Screeding	2	05-Feb-2024 A	06-Feb-2024 A	0																
2502	P10-GF-MR1050	Floor quarry Tiles & door installation	14	01-Dec-2023 A	14-Dec-2023 A	0																
2503	BS Works		64	11-Nov-2023 A	21-Feb-2024 A			21-Feb-2024 A, BS Works														
2504	MVAC		24	11-Nov-2023 A	06-Feb-2024 A			06-Feb-2024 A, MVAC														
2505	P10-GF-MR1080	Setting out for all equipment / MOS inspection	3	11-Nov-2023 A	15-Nov-2023 A	0																

■ Primary Baseline
 ■ Critical Remaining Work
 ◆ Non-Critical Milestone
■ Actual Work
 ◆ Baseline Milestone
 ◆ Summary
■ Remaining Work
 ◆ Critical Milestone

Data Date: 29-Feb-2024
 Project Start: 03-Feb-2020
 Project End: 24-Jul-2026

4 Months Rolling Programme (Mar-Jun 2024)

Date	Revision	Checked	Approved
04-Apr-2024	0	RP	EW

#	Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	TRA	2024														
								Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
2584	P10-GFER1050	Access Panel Installation	7	30-Dec-2023 A	06-Feb-2024 A		0															
2585	P10-GFER1060	Floor epoxy Painting & door installation	7	06-Feb-2024 A	02-Mar-2024	790	0															
2586	BS Works		49	25-Nov-2023 A	19-Feb-2024 A																	
2587	MVAC		24	25-Nov-2023 A	07-Feb-2024 A																	
2588	P10-GFER1090	Setting out for all equipment / MOS inspection	3	25-Nov-2023 A	30-Nov-2023 A		0															
2589	P10-GFER1100	Air Duct installation	20	30-Nov-2023 A	07-Feb-2024 A		0															
2590	EL		48	25-Nov-2023 A	19-Feb-2024 A																	
2591	P10-GFER1110	Setting out for all equipment / MOS inspection	11	25-Nov-2023 A	07-Dec-2023 A		0															
2592	P10-GFER1120	Installation of cable containment	6	07-Dec-2023 A	12-Dec-2023 A		0															
2593	P10-GFER1130	Cable wiring	11	09-Dec-2023 A	19-Dec-2023 A		0															
2594	P10-GFER1140	Installation of Lighting fitting and small power provision	24	19-Dec-2023 A	19-Feb-2024 A		0															
2595	FS		34	25-Nov-2023 A	07-Feb-2024 A																	
2596	P10-GFER1070	FS Piping, cable containment Installation	34	25-Nov-2023 A	07-Feb-2024 A		0															
2597	P10-GFER1080	FS Sprinkler head, Alarm smoke detector, heat detector installation	24	25-Nov-2023 A	07-Feb-2024 A		0															
2598	Cleaners Store		137	06-Nov-2023 A	19-Mar-2024	869																
2599	ABWF		137	06-Nov-2023 A	19-Mar-2024	869																
2600	P10-GFCS1000	Setting Out	2	06-Nov-2023 A	07-Nov-2023 A		0															
2601	P10-GFCS1010	Erect Scaffolding for wall and ceiling finishes	1	08-Nov-2023 A	08-Nov-2023 A		0															
2602	P10-GFCS1020	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	10	09-Nov-2023 A	22-Nov-2023 A		0															
2603	P10-GFCS1030	Floor Waterproofing, testing and Protective Screeding	14	11-Dec-2023 A	22-Dec-2023 A		0															
2604	P10-GFCS1040	Wall Finishes (Wall plastering, Skim Coat and 1st Coat Painting)	11	22-Dec-2023 A	13-Jan-2024 A		0															
2605	P10-GFCS1060	Ceiling Grid Installation	7	13-Jan-2024 A	19-Jan-2024 A		0															
2606	P10-GFCS1070	Floor epoxy Painting	7	29-Feb-2024*	06-Mar-2024	869	0															
2607	P10-GFCS1180	Ceiling Board Installation	9	06-Mar-2024	14-Mar-2024	869	0															
2608	P10-GFCS1190	Door Installation	5	14-Mar-2024*	19-Mar-2024	869	0															
2609	BS Works		56	10-Nov-2023 A	20-Feb-2024 A																	
2610	MVAC		17	10-Nov-2023 A	05-Feb-2024 A																	
2611	P10-GFCS1100	Setting out for all equipment / MOS inspection	3	10-Nov-2023 A	14-Nov-2023 A		0															
2612	P10-GFCS1110	Air Duct installation	12	15-Nov-2023 A	05-Feb-2024 A		0															
2613	EL		37	10-Nov-2023 A	20-Feb-2024 A																	
2614	P10-GFCS1120	Setting out for all equipment / MOS inspection	11	10-Nov-2023 A	23-Nov-2023 A		0															
2615	P10-GFCS1130	Installation of cable containment	5	10-Nov-2023 A	06-Feb-2024 A		0															
2616	P10-GFCS1140	Cable wiring	10	13-Nov-2023 A	08-Feb-2024 A		0															
2617	P10-GFCS1150	Installation of Lighting fitting and small power provision	24	22-Nov-2023 A	20-Feb-2024 A		0															
2618	FS		29	13-Nov-2023 A	06-Feb-2024 A																	
2619	P10-GFCS1080	FS Piping, cable containment Installation	15	13-Nov-2023 A	06-Feb-2024 A		0															
2620	P10-GFCS1090	FS Sprinkler head, Alarm smoke detector, heat detector installation	15	13-Nov-2023 A	06-Feb-2024 A		0															
2621	PD		53	13-Nov-2023 A	08-Feb-2024 A																	
2622	P10-GFCS1160	Water piping works Installation	15	13-Nov-2023 A	05-Feb-2024 A		0															
2623	P10-GFCS1170	Floor Drain Installation	10	23-Dec-2023 A	08-Feb-2024 A		0															
2624	Maintenance Corridor		117	13-Nov-2023 A	07-Mar-2024	-296																
2625	ABWF		99	29-Nov-2023 A	07-Mar-2024	-296																
2626	P10-GF-MC1020	Setting Out	2	29-Nov-2023 A	30-Nov-2023 A		0															
2627	P10-GF-MC1030	Erect Scaffolding for wall and ceiling finishes	2	30-Nov-2023 A	01-Dec-2023 A		0															
2628	P10-GF-MC1040	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	14	01-Dec-2023 A	14-Dec-2023 A		0															
2629	P10-GF-MC1050	Floor Waterproofing, testing and Protective Screeding	14	14-Dec-2023 A	27-Dec-2023 A		0															
2630	P10-GF-MC1060	Wall Finishes (Wall plastering, Skim Coat and 1st Coat Painting)	11	14-Dec-2023 A	23-Dec-2023 A		0															
2631	P10-GF-MC1070	Access Panel Installation	7	23-Dec-2023 A	29-Feb-2024	-296	0															
2632	P10-GF-MC1080	Floor epoxy Painting	7	29-Feb-2024*	07-Mar-2024	-296	0															
2633	BS Works		15	13-Nov-2023 A	20-Feb-2024 A																	
2634	PD		15	13-Nov-2023 A	20-Feb-2024 A																	
2635	P10-GF-MC1000	Water piping works Installation	10	13-Nov-2023 A	19-Feb-2024 A		0															
2636	P10-GF-MC1010	Floor Drain Installation	6	21-Nov-2023 A	20-Feb-2024 A		0															
2637	Staircase		141	03-Oct-2023 A	08-Mar-2024 A																	
2638	ST-02		131	03-Oct-2023 A	04-Mar-2024 A																	
2639	ABWF		131	03-Oct-2023 A	29-Feb-2024 A																	
2640	P10-GF-ST2-1020	Setting Out	2	03-Oct-2023 A	04-Oct-2023 A		0															
2641	P10-GF-ST2-1030	Erect Scaffolding for wall and ceiling finishes	2	04-Oct-2023 A	06-Oct-2023 A		0															
2642	P10-GF-ST2-1040	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	14	06-Oct-2023 A	19-Oct-2023 A		0															
2643	P10-GF-ST2-1050	Wall Finishes (Wall plastering, Skim Coat and 1st Coat Painting)	14	01-Nov-2023 A	07-Feb-2024 A		0															
2644	P10-GF-ST2-1055	Dismantle Scaffolding	1	08-Feb-2024 A	08-Feb-2024 A		0															
2645	P10-GF-ST2-1060	Staircase Screeding	2	09-Dec-2023 A	12-Dec-2023 A		0															
2646	P10-GF-ST2-1070	Staircase Tiling / Tactile Installation	9	12-Dec-2023 A	20-Dec-2023 A		0															
2647	P10-GF-ST2-1080	Staircase Handrail installation	7	20-Dec-2023 A	28-Dec-2023 A		0															
2648	P10-GF-ST2-1090	Staircase Wall Painting	7	28-Dec-2023 A	05-Feb-2024 A		0															
2649	P10-GF-ST2-1240	Staircase Door Installation	2	05-Feb-2024 A	29-Feb-2024 A		0															
2650	BS Works		17	31-Oct-2023 A	04-Mar-2024 A																	
2651	PD		17	31-Oct-2023 A	04-Mar-2024 A																	
2652	P10-GF-ST2-1000	Water piping works Installation	10	31-Oct-2023 A	02-Mar-2024 A		0															
2653	P10-GF-ST2-1010	Floor Drain Installation	6	10-Nov-2023 A	04-Mar-2024 A		0															
2654	FS		15	31-Oct-2023 A	04-Mar-2024 A																	
2655	P10-GF-ST2-1100	FS Piping, cable containment Installation	6	31-Oct-2023 A	01-Mar-2024 A		0															
2656	P10-GF-ST2-1110	FS Sprinkler head, Alarm smoke detector, heat detector installation	8	06-Nov-2023 A	04-Mar-2024 A		0															
2657	ST-03		94	13-Nov-2023 A	05-Mar-2024 A																	
2658	ABWF		94	13-Nov-2023 A	05-Mar-2024 A																	
2659	P10-GF-ST3-1000	Setting Out	2	13-Nov-2023 A	14-Nov-2023 A		0															
2660	P10-GF-ST3-1010	Erect Scaffolding for wall and ceiling finishes	2	14-Nov-2023 A	15-Nov-2023 A		0															

■ Primary Baseline ■ Critical Remaining Work ◆ Non-Critical Milestone
■ Actual Work ◆ Baseline Milestone ◆ Summary
■ Remaining Work ◆ Critical Milestone

#	Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	TRA	2024														
								Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
2661	P10-GF-ST3-1020	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	14	15-Nov-2023 A	27-Nov-2023 A		0															
2662	P10-GF-ST3-1030	Wall Finishes (Wall plastering, Skim Coat and 1st Coat Painting)	14	28-Nov-2023 A	04-Dec-2023 A		0															
2663	P10-GF-ST3-1035	Dismantle Scaffolding	1	04-Dec-2023 A	04-Dec-2023 A		0															
2664	P10-GF-ST3-1040	Staircase Screeding	2	16-Dec-2023 A	19-Dec-2023 A		0															
2665	P10-GF-ST3-1050	Staircase Tiling / Tactile Installation	9	19-Dec-2023 A	05-Mar-2024 A		0															
2666	P10-GF-ST3-1060	Staircase Handrail installation	7	15-Dec-2023 A	21-Dec-2023 A		0															
2667	P10-GF-ST3-1070	Staircase Wall Painting	7	22-Dec-2023 A	22-Jan-2024 A		0															
2668	P10-GF-ST3-1075	Staircase Door Installation	2	09-Feb-2024 A	05-Mar-2024 A		0															
2669	BS Works		17	18-Nov-2023 A	01-Mar-2024 A																	
2670	PD		17	18-Nov-2023 A	01-Mar-2024 A																	
2671	P10-GF-ST3-1100	Water piping works Installation	10	18-Nov-2023 A	01-Mar-2024 A		0															
2672	P10-GF-ST3-1110	Floor Drain Installation	6	29-Nov-2023 A	01-Mar-2024 A		0															
2673	FS		15	18-Nov-2023 A	01-Mar-2024 A																	
2674	P10-GF-ST3-1080	FS Piping, cable containment Installation	6	18-Nov-2023 A	29-Feb-2024 A		0															
2675	P10-GF-ST3-1090	FS Sprinkler head, Alarm smoke detector, heat detector installation	8	25-Nov-2023 A	01-Mar-2024 A		0															
2676	ST-04		96	13-Nov-2023 A	06-Mar-2024 A																	
2677	ABWF		96	13-Nov-2023 A	06-Mar-2024 A																	
2678	P10-GF-ST4-1000	Setting Out	2	13-Nov-2023 A	14-Nov-2023 A		0															
2679	P10-GF-ST4-1010	Erect Scaffolding for wall and ceiling finishes	2	14-Nov-2023 A	15-Nov-2023 A		0															
2680	P10-GF-ST4-1020	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	9	15-Nov-2023 A	23-Nov-2023 A		0															
2681	P10-GF-ST4-1030	Wall Finishes (Wall plastering, Skim Coat and 1st Coat Painting)	9	24-Nov-2023 A	28-Nov-2023 A		0															
2682	P10-GF-ST4-1035	Dismantle Scaffolding	1	28-Nov-2023 A	28-Nov-2023 A		0															
2683	P10-GF-ST4-1040	Staircase Screeding	2	22-Dec-2023 A	23-Dec-2023 A		0															
2684	P10-GF-ST4-1050	Staircase Tiling / Tactile Installation	9	23-Dec-2023 A	04-Mar-2024 A		0															
2685	P10-GF-ST4-1060	Staircase Handrail installation	7	07-Dec-2023 A	13-Dec-2023 A		0															
2686	P10-GF-ST4-1070	Staircase Wall Painting	7	18-Dec-2023 A	23-Dec-2023 A		0															
2687	P10-GF-ST4-1075	Staircase Door Installation	2	14-Feb-2024 A	06-Mar-2024 A		0															
2688	BS Works		39	14-Nov-2023 A	01-Feb-2024 A																	
2689	PD		39	14-Nov-2023 A	01-Feb-2024 A																	
2690	P10-GF-ST4-1100	Water piping works Installation	10	14-Nov-2023 A	01-Feb-2024 A		0															
2691	P10-GF-ST4-1110	Floor Drain Installation	6	14-Nov-2023 A	26-Jan-2024 A		0															
2692	FS		37	14-Nov-2023 A	01-Feb-2024 A																	
2693	P10-GF-ST4-1080	FS Piping, cable containment Installation	6	14-Nov-2023 A	01-Feb-2024 A		0															
2694	P10-GF-ST4-1090	FS Sprinkler head, Alarm smoke detector, heat detector installation	3	14-Nov-2023 A	29-Jan-2024 A		0															
2695	ST-05		96	15-Nov-2023 A	08-Mar-2024 A																	
2696	ABWF		96	15-Nov-2023 A	08-Mar-2024 A																	
2697	P10-GF-ST5-1000	Setting Out	2	15-Nov-2023 A	16-Nov-2023 A		0															
2698	P10-GF-ST5-1010	Erect Scaffolding for wall and ceiling finishes	2	17-Nov-2023 A	18-Nov-2023 A		0															
2699	P10-GF-ST5-1020	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	9	20-Nov-2023 A	28-Nov-2023 A		0															
2700	P10-GF-ST5-1030	Wall Finishes (Wall plastering, Skim Coat and 1st Coat Painting)	14	30-Nov-2023 A	12-Dec-2023 A		0															
2701	P10-GF-ST5-1035	Dismantle Scaffolding	1	13-Dec-2023 A	13-Dec-2023 A		0															
2702	P10-GF-ST5-1040	Staircase Screeding	2	23-Dec-2023 A	28-Dec-2023 A		0															
2703	P10-GF-ST5-1050	Staircase Tiling / Tactile Installation	9	28-Dec-2023 A	07-Mar-2024 A		0															
2704	P10-GF-ST5-1060	Staircase Handrail installation	7	23-Dec-2023 A	30-Dec-2023 A		0															
2705	P10-GF-ST5-1070	Staircase Wall Painting	7	23-Dec-2023 A	05-Feb-2024 A		0															
2706	P10-GF-ST5-1075	Staircase Door Installation	2	16-Feb-2024 A	08-Mar-2024 A		0															
2707	BS Works		10	29-Nov-2023 A	02-Mar-2024 A																	
2708	PD		10	29-Nov-2023 A	30-Jan-2024 A																	
2709	P10-GF-ST5-1100	Water piping works Installation	10	29-Nov-2023 A	30-Jan-2024 A		0															
2710	P10-GF-ST5-1110	Floor Drain Installation	6	07-Dec-2023 A	14-Dec-2023 A		0															
2711	FS		6	29-Nov-2023 A	02-Mar-2024 A																	
2712	P10-GF-ST5-1080	FS Piping, cable containment Installation	6	29-Nov-2023 A	01-Mar-2024 A		0															
2713	P10-GF-ST5-1090	FS Sprinkler head, Alarm smoke detector, heat detector installation	3	30-Nov-2023 A	02-Mar-2024 A		0															
2714	External wall and External Area		221	21-Oct-2023 A	29-May-2024	800																
2715	ABWF		174	21-Oct-2023 A	15-Apr-2024 A																	
2716	P10-GF-EXT1000	Erection of external scaffolding	28	21-Oct-2023 A	27-Nov-2023 A	3																
2717	P10-GF-EXT1010	Waterproofing & Window / Louvre Glazing Works	32	05-Feb-2024 A	08-Mar-2024 A	6																
2718	P10-GF-EXT1020	Aluminium Baffle Ceiling Grid Installation	32	08-Feb-2024 A	12-Mar-2024 A	6																
2719	P10-GF-EXT1030	Wooden Fence Installation	45	14-Feb-2024 A	26-Mar-2024 A	6																
2720	P10-GF-EXT1040	External wall Painting and Metal Grilles Installation	39	17-Feb-2024 A	15-Mar-2024 A	3																
2721	P10-GF-EXT1050	Aluminium Baffle Ceiling Board Installation	39	17-Feb-2024 A	15-Mar-2024 A	3																
2722	P10-GF-EXT1060	Removal of external wall scaffolding	5	15-Mar-2024 A	19-Mar-2024 A	2																
2723	P10-GF-EXT1070	Eco Pavers Laying / Stainless Steel Tactile	23	19-Mar-2024 A	12-Apr-2024 A	2																
2724	P10-GF-EXT1080	Staircase Finishes and door installation	11	04-Apr-2024 A	15-Apr-2024 A	2																
2725	BS Works		31	22-Nov-2023 A	19-Feb-2024 A																	
2726	EL		31	22-Nov-2023 A	27-Dec-2023 A																	
2727	P10-GF-EXT1130	Setting out for all equipment / MOS inspection	7	22-Nov-2023 A	02-Dec-2023 A	0																
2728	P10-GF-EXT1140	Installation of cable containment	5	02-Dec-2023 A	06-Dec-2023 A	0																
2729	P10-GF-EXT1150	Cable wiring	10	06-Dec-2023 A	13-Dec-2023 A	0																
2730	P10-GF-EXT1160	Installation of Lighting fitting and small power provision	10	13-Dec-2023 A	27-Dec-2023 A	0																
2731	FS		24	22-Nov-2023 A	19-Feb-2024 A																	
2732	P10-GF-EXT1090	FS Piping, cable containment Installation	15	22-Nov-2023 A	19-Feb-2024 A	0																
2733	P10-GF-EXT1100	FS Sprinkler head, Alarm smoke detector, heat detector installation	15	30-Nov-2023 A	19-Feb-2024 A	0																
2734	Landscape Works		79	09-Mar-2024	29-May-2024	800																
2735	P10-GF-EXT1490	Planters Structural works	23	09-Mar-2024*	02-Apr-2024	800	2															
2736	P10-GF-EXT1495	Planters RC defect rectification	6	03-Apr-2024	09-Apr-2024	800	2															
2737	P10-GF-EXT1500	Planters Waterproofing	18	09-Apr-2024	26-Apr-2024	800	2															
2738	P10-GF-EXT1510	Irrigation Pipes, Sub-soil Drainage installation	11																			

#	Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	TRA	2024														
								Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
2817	P10-1F-WS1090	FS Piping, cable containment Installation	20	21-Nov-2023 A	14-Feb-2024 A		0															
2818	P10-1F-WS1100	FS Sprinkler head, Alarm smoke detector, heat detector installation	20	21-Nov-2023 A	14-Feb-2024 A		0															
2819	Pantry		120	23-Oct-2023 A	20-Feb-2024 A																	
2820	P10-PTRY-1000	Access Date of Pantry Fitting Out	0	23-Oct-2023 A																		
2821	P10-PTRY-1010	Site Survey and setting out	2	28-Nov-2023 A	29-Nov-2023 A																	
2822	P10-PTRY-1020	Block Wall Erection	8	01-Dec-2023 A	09-Dec-2023 A																	
2823	P10-PTRY-1030	MEP Conduit embedment	6	09-Dec-2023 A	14-Dec-2023 A																	
2824	P10-PTRY-1040	Waterproofing & testing	8	14-Dec-2023 A	21-Dec-2023 A																	
2825	P10-PTRY-1050	Protected screed	3	21-Dec-2023 A	27-Dec-2023 A																	
2826	P10-PTRY-1060	Ceiling finishes	6	27-Dec-2023 A	06-Jan-2024 A																	
2827	P10-PTRY-1070	Floor finishes	10	06-Jan-2024 A	19-Jan-2024 A																	
2828	P10-PTRY-1080	Wall finishes	10	19-Jan-2024 A	01-Feb-2024 A																	
2829	P10-PTRY-1090	Cabinet installation	3	05-Feb-2024 A	07-Feb-2024 A																	
2830	P10-PTRY-1100	Door installation	3	05-Feb-2024 A	07-Feb-2024 A																	
2831	P10-PTRY-1110	Vanity Counter Installation	6	05-Feb-2024 A	09-Feb-2024 A																	
2832	P10-PTRY-1120	Sanitary fitting installation	10	06-Feb-2024 A	19-Feb-2024 A																	
2833	P10-PTRY-1130	Signage, false ceiling panels, Lighting and air grille installation	6	07-Feb-2024 A	16-Feb-2024 A																	
2834	P10-PTRY-1140	Inspection, T&C, cleaning	1	19-Feb-2024 A	20-Feb-2024 A																	
2835	Female Toilets / Disabled Toilet / Male Toilet / Baby Care Room		190	11-Oct-2023 A	17-Apr-2024	821																
2836	ABWF		190	11-Oct-2023 A	17-Apr-2024	814																
2837	P10-1T1000	Access Date of Toilet Fitting Out	0	23-Oct-2023 A																		
2838	P10-1T1010	Site Survey and setting out	2	11-Oct-2023 A	12-Oct-2023 A																	
2839	P10-1T1020	Block Wall Erection	8	01-Nov-2023 A	09-Nov-2023 A																	
2840	P10-1T1030	MEP Conduit embedment	6	09-Nov-2023 A	14-Nov-2023 A																	
2841	P10-1T1040	Waterproofing & testing	8	14-Nov-2023 A	21-Nov-2023 A																	
2842	P10-1T1050	Protected screed	3	21-Nov-2023 A	24-Nov-2023 A																	
2843	P10-1T1060	Ceiling Grid Installation	6	22-Jan-2024 A	26-Jan-2024 A																	
2844	P10-1T1070	Floor finishes	11	26-Jan-2024 A	05-Feb-2024 A																	
2845	P10-1T1075	Ceiling Grid Installation	6	05-Feb-2024 A	09-Feb-2024 A																	
2846	P10-1T1080	Wall finishes	11	05-Feb-2024 A	17-Feb-2024 A																	
2847	P10-1T1090	Vanity Counter Installation	7	29-Feb-2024	06-Mar-2024	848																
2848	P10-1T1100	Door installation	3	29-Feb-2024	02-Mar-2024	775																
2849	P10-1T1110	Cubical installation	7	06-Apr-2024	12-Apr-2024	737																
2850	P10-1T1120	Sanitary fitting installation	11	29-Feb-2024	11-Mar-2024	848																
2851	P10-1T1130	Signage, false ceiling panels, Lighting and air grille installation	5	12-Apr-2024	16-Apr-2024	737																
2852	P10-1T1140	Inspection & cleaning	1	17-Apr-2024	17-Apr-2024	814																
2853	BS Works		165	03-Nov-2023 A	16-Apr-2024	822																
2854	MVAC		162	03-Nov-2023 A	15-Apr-2024	739																
2855	P10-1T1150	Setting out for all equipment / Conduit / Switches	2	03-Nov-2023 A	06-Nov-2023 A																	
2856	P10-1T1180	MEP Conduit embedment	6	06-Nov-2023 A	05-Feb-2024 A																	
2857	P10-1T1190	Air Duct installation	18	10-Nov-2023 A	06-Feb-2024 A																	
2858	P10-1T1310	MVAC unit, Exhaust fans installation	18	10-Nov-2023 A	08-Feb-2024 A																	
2859	P10-1T1320	T&C of MVAC system	2	12-Apr-2024	15-Apr-2024	739																
2860	FS		164	03-Nov-2023 A	16-Apr-2024	747																
2861	P10-1T1160	FS Piping, cable containment Installation	11	03-Nov-2023 A	14-Nov-2023 A																	
2862	P10-1T1170	FS Sprinkler pipe overhead with ceiling installation	11	14-Nov-2023 A	11-Dec-2023 A																	
2863	P10-1T1290	FS Sprinkler head, Alarm smoke detector, heat detector installation	11	11-Dec-2023 A	10-Jan-2024 A																	
2864	P10-1T1300	T&C of FS system	5	12-Apr-2024	16-Apr-2024	747																
2865	PD		141	03-Nov-2023 A	13-Apr-2024	818																
2866	P10-1T1240	Setting out for pipeworks / San fit, & Installation of pipework at ceiling level	11	03-Nov-2023 A	05-Feb-2024 A																	
2867	P10-1T1250	Installation of pipework connection to drainage	11	11-Nov-2023 A	06-Feb-2024 A																	
2868	P10-1T1260	Installation of pipework connection to sanitary fitting	11	20-Nov-2023 A	19-Mar-2024 A																	
2869	P10-1T1270	T&C of PD system	2	19-Mar-2024 A	13-Apr-2024	818																
2870	EL		162	03-Nov-2023 A	15-Apr-2024	825																
2871	P10-1T1200	Setting out for all equipment / MOS inspection	2	03-Nov-2023 A	06-Nov-2023 A																	
2872	P10-1T1205	Electrical conduit installation	12	06-Nov-2023 A	18-Nov-2023 A																	
2873	P10-1T1210	Installation of cable containment	8	06-Nov-2023 A	07-Feb-2024 A																	
2874	P10-1T1220	Cable wiring	12	18-Nov-2023 A	15-Feb-2024 A																	
2875	P10-1T1230	Installation of Lighting fitting and small power provision	10	28-Nov-2023 A	23-Mar-2024 A																	
2876	P10-1T1280	T&C of Electrical System	2	12-Apr-2024	15-Apr-2024	825																
2877	Senior Forestry Officer Office		157	23-Oct-2023 A	25-Mar-2024	863																
2878	P10-1F-SFO1180	Access Date of 1/F SFO Office Fitting Out	0	23-Oct-2023 A																		
2879	ABWF		152	28-Oct-2023 A	25-Mar-2024	863																
2880	P10-1F-SFO1000	Setting Out	2	28-Oct-2023 A	30-Oct-2023 A																	
2881	P10-1F-SFO1010	Erect Scaffolding for wall and ceiling finishes	2	30-Oct-2023 A	02-Nov-2023 A																	
2882	P10-1F-SFO1020	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	14	03-Nov-2023 A	21-Nov-2023 A																	
2883	P10-1F-SFO1030	Wall Finishes (Wall plastering, Skim Coat and 1st Coat Painting)	14	22-Nov-2023 A	09-Dec-2023 A																	
2884	P10-1F-SFO1040	Floor Screeding	2	11-Dec-2023 A	14-Dec-2023 A																	
2885	P10-1F-SFO1060	Ceiling Grid Installation	7	15-Dec-2023 A	27-Dec-2023 A																	
2886	P10-1F-SFO1070	Plastic Laminate Installation	7	28-Dec-2023 A	06-Jan-2024 A																	
2887	P10-1F-SFO1160	Ceiling Board Installation	9	05-Feb-2024 A	04-Mar-2024	863																
2888	P10-1F-SFO1165	Raised Floor Installation	14	04-Mar-2024	16-Mar-2024	863																

#	Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	TRA	2024														
								Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
2974	Main Office		172	20-Nov-2023 A	10-May-2024	819																
2975	P10-1FOF1010	Access Date of 1/F Main Office Fitting Out	0	28-Dec-2023 A																		
2976	ABWF		129	02-Jan-2024 A	10-May-2024	819																
2977	P10-1FOF1160	Setting Out	2	02-Jan-2024 A	05-Jan-2024 A	0																
2978	P10-1FOF1170	Erect Scaffolding for wall and ceiling finishes	2	06-Jan-2024 A	10-Jan-2024 A	0																
2979	P10-1FOF1180	Ceiling Finishes (Touch up, Skim Coat and 1st coat Painting)	23	13-Jan-2024 A	03-Feb-2024 A	0																
2980	P10-1FOF1190	Wall Finishes (Wall plastering, Skim Coat and 1st Coat Painting)	23	11-Jan-2024 A	01-Feb-2024 A	0																
2981	P10-1FOF1200	Floor Screeding	11	01-Feb-2024 A	09-Feb-2024 A	0																
2982	P10-1FOF1210	Ceiling Grid Installation	32	01-Feb-2024 A	19-Feb-2024 A	0																
2983	P10-1FOF1215	Motorized Roller Blind Installation at Office Skylight	14	20-Feb-2024 A	23-Mar-2024	819	0															
2984	P10-1FOF1220	Ceiling Board Installation & Take Down Working Platform	45	23-Mar-2024	10-May-2024	819	0															
2985	P10-1FOF1230	Plastic Laminate Installation (after FS Inspection)	11	26-Mar-2024	10-Apr-2024	819	0															
2986	P10-1FOF1245	Raised Floor Installation (after FS Inspection)	20	11-Apr-2024	02-May-2024	819	0															
2987	P10-1FOF1250	Loose Furniture Installation (after FS Inspection)	9	02-May-2024	10-May-2024	819	0															
2988	BS Works		150	20-Nov-2023 A	18-Apr-2024	798																
2989	MVAC		22	20-Nov-2023 A	15-Mar-2024	766																
2990	P10-1F-OF1280	Setting out for all equipment / MOS inspection	2	20-Nov-2023 A	21-Nov-2023 A	0																
2991	P10-1F-OF1290	Air Duct installation	21	21-Nov-2023 A	15-Mar-2024	766	0															
2992	EL		59	20-Nov-2023 A	26-Mar-2024	819																
2993	P10-1F-OF1300	Setting out for all equipment / MOS inspection	2	20-Nov-2023 A	21-Nov-2023 A	0																
2994	P10-1F-OF1310	Installation of cable containment	10	21-Nov-2023 A	05-Mar-2024	819	0															
2995	P10-1F-OF1320	Cable wiring	20	29-Nov-2023 A	20-Mar-2024	819	0															
2996	P10-1F-OF1330	Installation of Lighting fitting and small power provision	20	28-Dec-2023 A	26-Mar-2024	819	0															
2997	FS		149	21-Nov-2023 A	18-Apr-2024	744																
2998	P10-1F-OF1260	FS Piping, cable containment Installation	10	21-Nov-2023 A	01-Mar-2024	776	0															
2999	P10-1F-OF1270	FS Sprinkler head, Alarm smoke detector, heat detector installation	6	05-Dec-2023 A	07-Dec-2023 A	0																
3000	P10-1FOF-1200	T&C of FS provision at Office Room Area	15	05-Apr-2024	18-Apr-2024	744	0															
3001	Zone 4		194	31-Oct-2023 A	25-Apr-2024 A																	
3002	External Area		194	31-Oct-2023 A	25-Apr-2024 A																	
3003	P10-1F-EXT1000	Access Date of 1/F External Area Fitting Out	0	31-Oct-2023 A																		
3004	ABWF		194	31-Oct-2023 A	15-Apr-2024 A																	
3005	P10-1F-EXT1010	Erection of external scaffolding	28	31-Oct-2023 A	25-Nov-2023 A	3																
3006	P10-1F-EXT1020	Aluminium Baffle Ceiling Grid Installation	41	15-Jan-2024 A	24-Feb-2024 A	6																
3007	P10-1F-EXT1030	Aluminium Baffle Ceiling Board Installation	41	05-Feb-2024 A	11-Mar-2024 A	6																
3008	P10-1F-EXT1043	External Wall metal grille Installation	20	05-Feb-2024 A	24-Feb-2024 A	3																
3009	P10-1F-EXT1045	Steel Staircase (ST-01) Installation	28	24-Feb-2024 A	09-Mar-2024 A	3																
3010	P10-1F-EXT1050	Removal of external wall scaffolding	7	09-Mar-2024 A	13-Mar-2024 A	2																
3011	P10-1F-EXT1120	Floor Drainage Laying	23	13-Mar-2024 A	03-Apr-2024 A	2																
3012	P10-1F-EXT1130	Waterproofing, testing and placing insulation with protection screed	23	13-Mar-2024 A	03-Apr-2024 A	2																
3013	P10-1F-EXT1140	Steel Staircase (ST-01) Finishes	23	13-Mar-2024 A	03-Apr-2024 A	2																
3014	P10-1F-EXT1150	Glass Balustrade Installation	23	13-Mar-2024 A	03-Apr-2024 A	2																
3015	P10-1F-EXT1160	Timber Deck Installation	23	20-Mar-2024 A	15-Apr-2024 A	2																
3016	BS Works		43	18-Nov-2023 A	06-Feb-2024 A																	
3017	MVAC		19	18-Nov-2023 A	06-Feb-2024 A																	
3018	P10-1F-EXT1060	Setting out for all equipment / MOS inspection	3	18-Nov-2023 A	21-Nov-2023 A	0																
3019	P10-1F-EXT1070	Air Duct installation	15	22-Nov-2023 A	06-Feb-2024 A	0																
3020	EL		43	18-Nov-2023 A	06-Feb-2024 A																	
3021	P10-1F-EXT1080	Setting out for all equipment / MOS inspection	7	18-Nov-2023 A	24-Nov-2023 A	0																
3022	P10-1F-EXT1090	Installation of cable containment	5	24-Nov-2023 A	28-Nov-2023 A	0																
3023	P10-1F-EXT1100	Cable wiring	10	29-Nov-2023 A	07-Dec-2023 A	0																
3024	P10-1F-EXT1110	Installation of Lighting fitting and small power provision	20	09-Dec-2023 A	06-Feb-2024 A	0																
3025	FS		31	18-Nov-2023 A	06-Feb-2024 A																	
3026	P10-1F-EXT1300	FS Piping, cable containment Installation	15	18-Nov-2023 A	27-Dec-2023 A	0																
3027	P10-1F-EXT1310	FS Sprinkler head, Alarm smoke detector, heat detector installation	15	27-Dec-2023 A	06-Feb-2024 A	0																
3028	Landscape Works		45	09-Mar-2024 A	25-Apr-2024 A																	
3029	P10-1F-EXT1330	Irrigation Pipes, Sub-soil Drainage installation	15	09-Mar-2024 A	22-Mar-2024 A	2																
3030	P10-1F-EXT1335	Planters Waterproofing	20	12-Mar-2024 A	03-Apr-2024 A	2																
3031	P10-1F-EXT1340	Placing Planting Soil	24	12-Mar-2024 A	08-Apr-2024 A	2																
3032	P10-1F-EXT1350	Shurbs Planting works (1,595nos)	30	23-Mar-2024 A	25-Apr-2024 A	2																
3033	Roof Floor		231	28-Sep-2023 A	18-May-2024	784																
3034	ABWF		210	11-Oct-2023 A	07-May-2024	780																
3035	P10-RF 1000	Access Date of Roof Fitting Out	0	11-Oct-2023 A																		
3036	P10-RF 1010	Setting Out	2	11-Oct-2023 A	12-Oct-2023 A	0																
3037	P10-RF 1020	Roof RC Structure Water Testing before waterproofing	3	12-Oct-2023 A	14-Oct-2023 A	0																
3038	P10-RF 1030	Remedial and touch up works before applying waterproofing	2	14-Oct-2023 A	16-Oct-2023 A	0																
3039	P10-RF 1040	Applying Roof waterproofing Membrane	6	16-Oct-2023 A	20-Oct-2023 A	0																
3040	P10-RF 1050	Water Testing & Infra red testing	11	01-Nov-2023 A	01-Jan-2024 A	0																
3041	P10-RF 1060	Laying Insulation board with protection floor screed	7	01-Jan-2024 A	10-Jan-2024 A	0																
3042	P10-RF 1070	Laying Floor finishes	20	01-Jan-2024 A	22-Jan-2024 A	0																
3043	P10-RF 1080	Roof Dog House BS Installation	23	22-Jan-2024 A	14-Feb-2024 A	0																
3044	P10-RF 1081	Roof Skylight Steelwork / Frame Installation (Top of Main Office: 4nos)	11	02-Jan-2024 A	11-Jan-2024 A	0																
3045	P10-RF 1082	Roof Skylight Steelwork / Frame Installation (Top of Office Room 1 & 2: 2nos)	6	11-Jan-2024 A	16-Jan-2024 A	0																
3046	P10-RF 1083	Roof Skylight Steelwork / Frame Installation (Ext. Area: 4nos)	11	16-Jan-2024 A	25-Jan-2024 A	0																
3047	P10-RF 1084	Roof Skylight Glazing Installation (Top of Main Office: 4nos)	8	25-Jan-2024 A	01-Feb-2024 A	0																
3048	P10-RF 1085	Roof Skylight Glazing Installation (Top of Office Room 1 & 2: 2nos)	5	01-Feb-2024 A	05-Feb-2024 A	0																
3049	P10-RF 1086	Roof Skylight Glazing Installation (Ext. Area: 4nos)	7	25-Jan-2024 A	31-Jan-2024 A	0																
3050	P10-RF 1095	PV Panel Installation	34	12-Mar-2024																		

#	Activity ID	Activity Name	Original Duration	Start	Finish	Total Float	TRA	2024														
								Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec			
3209	P11-OF1270	Excavation to Formation Level	2	17-Sep-2024	20-Sep-2024	-138	0															
3210	P11-OF1280	Backfilling and Blinding works to outfall	1	20-Sep-2024	20-Sep-2024	-138	0															
3211	P11-OF1290	Allow 7 days for concrete strength development	8	21-Sep-2024	28-Sep-2024	-138	0															
3212	P11-OF1300	Dismantle Strut	1	28-Sep-2024	30-Sep-2024	-138	0															
3213	P11-OF1310	Outfall Baseslab (Incl concreting)	3	30-Sep-2024	03-Oct-2024	-138	0															
3214	P11-OF1320	Dismantle Base slab Formwork	2	03-Oct-2024	05-Oct-2024	-138	0															
3215	P11-OF1330	Outfall Wall (Incl concreting)	6	05-Oct-2024	12-Oct-2024	-138	0															
3216	P11-OF1340	Dismantle 1st pour Wall Formwork	3	12-Oct-2024	15-Oct-2024	-138	0															
3217	P11-OF1350	Outfall Wall 2nd pour (Incl concreting)	5	15-Oct-2024	19-Oct-2024	-138	0															
3218	P11-OF1360	Dismantle 2nd pour Wall Formwork	3	19-Oct-2024	23-Oct-2024	-138	0															
3219	P11-OF1370	Parfillay Reintatement (Rockfill)	2	23-Oct-2024	24-Oct-2024	-138	0															
3220	P11-OF1380	Dismantle 1st Layer of Strut	2	25-Oct-2024	26-Oct-2024	-138	0															
3221	P11-OF1390	Remove Riverside sheet pile	2	26-Oct-2024	29-Oct-2024	-138	0															
3222	P11-OF1400	Casting of outfall (River Side)	2	29-Oct-2024	31-Oct-2024	-138	0															
3223	P11-OF1410	Remove remaining side sheet pile & rock fill	6	31-Oct-2024	05-Nov-2024	-138	0															
3224	P11-OF1420	Report Completion of Drainage works	0		05-Nov-2024	-138	0															
3225	Fresh Water Pipeworks (Level: (IL +6mPD to +7.0mPD))		679	03-Jan-2023 A	02-Nov-2024	-146																
3226	P11-1031	Submission and approval of Form WWO542 for application to WSD (Fresh Water Works)	34	03-Jan-2023 A	08-Sep-2023 A		2															
3227	P11-1032	Submission of Form WWO46 Part 1,2 to WSD for application of Water works (Fresh Water Works)	16	08-Sep-2023 A	22-Sep-2023 A		2															
3228	P11-1033	Reply with Form WWO46 Part 3 from WSD for application of Water works (Fresh Water Works)	8	22-Sep-2023 A	03-Oct-2023 A		2															
3229	P11-1050	Fresh water pipe works (100m)	28	24-Jun-2024	20-Jul-2024	-146	2															
3230	P11-1160	Connection to existing fresh water main at both ends	17	20-Jul-2024	06-Aug-2024	-146	2															
3231	P11-WSD1030	Submit Form WWO46 Part 4 For WSD Inspection	1	06-Aug-2024	07-Aug-2024	-146	2															
3232	P11-WSD1040	WSD Inspection	8	13-Sep-2024	21-Sep-2024	-146	2															
3233	P11-WSD1050	Issue Water Certificate (Part 5)	1	01-Nov-2024	02-Nov-2024	-146	2															
3234	Salt Water Pipeworks		690	03-Jan-2023 A	13-Nov-2024	-146																
3235	P11-1065	Submission and approval of Form WWO542 for application to WSD (Salt Water Works)	34	03-Jan-2023 A	08-Sep-2023 A		2															
3236	P11-1067	Submission and approval of Form WWO46 Part 1,2 to WSD for application of Water works (Salts Water Works)	16	08-Sep-2023 A	22-Sep-2023 A		2															
3237	P11-1069	Reply with Form WWO46 Part 3 from WSD for application of Water works (Salt Water Works)	8	22-Sep-2023 A	03-Oct-2023 A		2															
3238	P11-1070	Salt water pipe works (20m)	11	20-Jul-2024	31-Jul-2024	-146	2															
3239	P11-1170	Connection to existing fresh water main	6	31-Jul-2024	06-Aug-2024	-146	2															
3240	P11-1182	Submit Form WWO46 Part 4 For WSD Inspection	1	06-Aug-2024	07-Aug-2024	-146	2															
3241	P11-1184	WSD Inspection	8	13-Sep-2024	21-Sep-2024	-146	2															
3242	P11-1186	Issue Water Certificate (Part 5)	1	01-Nov-2024	02-Nov-2024	-146	2															
3243	P11-1200	Backfill to Level +7.0mPD for Surface Channel and Utilities works	11	02-Nov-2024	13-Nov-2024	-146	2															
3244	Utilities Works		45	13-Nov-2024	27-Dec-2024	-146																
3245	P11-1180	Twins 11KV Cables Connection	17	13-Nov-2024	28-Nov-2024	-146	2															
3246	P11-1190	Surface U Channel Construction (4 nos.)	34	13-Nov-2024	14-Dec-2024	-146	2															
3247	P11-1250	Backfill to Level Final Formation Level	11	14-Dec-2024	27-Dec-2024	-146	2															
3248	Road A6 Works (Total 100m @ 10m/Bay)		169	13-Nov-2024	02-May-2025	67																
3249	1st Cycle (4 Bays)		56	13-Nov-2024	08-Jan-2025	67																
3250	P11-1060	Formation of Sub-Grade	8	13-Nov-2024	20-Nov-2024	-109	2															
3251	P11-1210	Laying of Sub-Base	7	20-Nov-2024	26-Nov-2024	67	2															
3252	P11-1220	Laying of Road-Base	7	26-Nov-2024	03-Dec-2024	67	2															
3253	P11-1230	Laying of Base Course	6	03-Dec-2024	07-Dec-2024	67	2															
3254	P11-1240	Laying of Wearing Course	6	07-Dec-2024	13-Dec-2024	67	2															
3255	P11-1260	Concrete Kerbs, Edging, Pavement Works & Power Connection to Road Lighting	17	13-Dec-2024	31-Dec-2024	67	2															
3256	P11-1270	Road Furniture, Guard Rail, Road Lighting and Road Marking	7	31-Dec-2024	08-Jan-2025	67	2															
3257	2nd Cycle (4 Bays)		56	08-Jan-2025	05-Mar-2025	67																
3258	P11-1280	Formation of Sub-Grade	8	08-Jan-2025	15-Jan-2025	67	2															
3259	P11-1290	Laying of Sub-Base	7	15-Jan-2025	21-Jan-2025	67	2															
3260	P11-1300	Laying of Road-Base	7	21-Jan-2025	28-Jan-2025	67	2															
3261	P11-1310	Laying of Base Course	6	28-Jan-2025	05-Feb-2025	67	2															
3262	P11-1320	Laying of Wearing Course	6	05-Feb-2025	11-Feb-2025	67	2															
3263	P11-1330	Concrete Kerbs, Edging, Pavement Works & Power Connection to Road Lighting	17	11-Feb-2025	26-Feb-2025	67	2															
3264	P11-1340	Road Furniture, Guard Rail, Road Lighting and Road Marking	7	26-Feb-2025	05-Mar-2025	67	2															
3265	3rd Cycle (3 Bays)		56	05-Mar-2025	02-May-2025	67																
3266	P11-1350	Formation of Sub-Grade	8	05-Mar-2025	12-Mar-2025	67	2															
3267	P11-1360	Laying of Sub-Base	7	12-Mar-2025	18-Mar-2025	67	2															
3268	P11-1370	Laying of Road-Base	7	18-Mar-2025	25-Mar-2025	67	2															
3269	P11-1380	Laying of Base Course	6	25-Mar-2025	29-Mar-2025	67	2															
3270	P11-1390	Laying of Wearing Course	6	29-Mar-2025	04-Apr-2025	67	2															
3271	P11-1400	Concrete Kerbs, Edging, Pavement Works & Power Connection to Road Lighting	17	04-Apr-2025	24-Apr-2025	67	2															
3272	P11-1410	Road Furniture, Guard Rail, Road Lighting and Road Marking	7	24-Apr-2025	02-May-2025	67	2															
3273	Landscaping and Remaining Works		46	20-Mar-2025	07-May-2025	0																
3274	P11-1420	PMI-160 - 18 months duration for landscaping and remaining works	46	20-Mar-2025*	07-May-2025	0																
3275	Defect Rectification Period		61	08-May-2025	05-Jul-2025	0																
3276	P11-1500	PMI-160 - 2 months duration for rectification to defects works	61	08-May-2025*	05-Jul-2025	0																

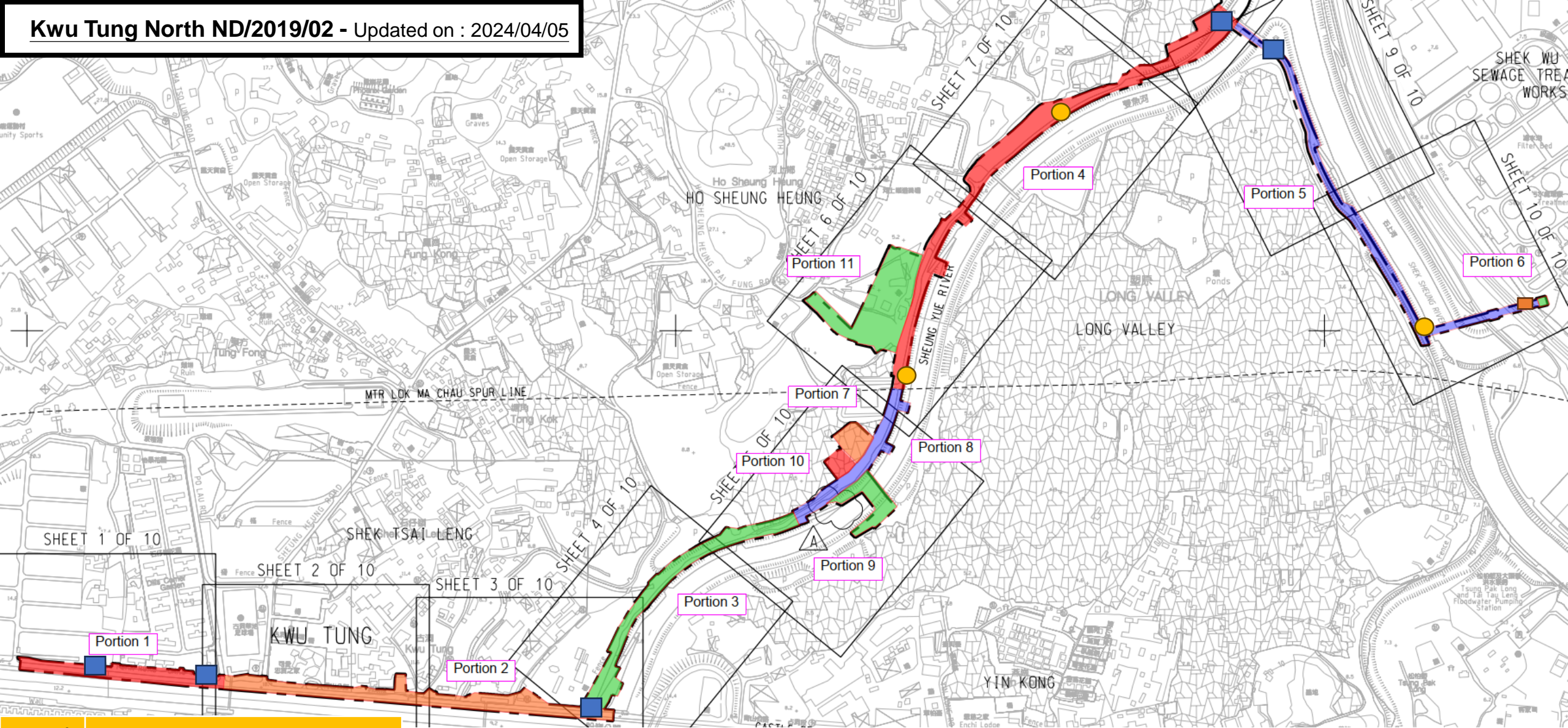
█ Primary Baseline
 █ Critical Remaining Work
 ◆ Non-Critical Milestone
█ Actual Work
 ◆ Baseline Milestone
 ▬ Summary
█ Remaining Work
 ◆ Critical Milestone





Data Date: 29-Feb-2024
 Project Start: 03-Feb-2020
 Project End: 24-Jul-2026

4 Months Rolling Programme (Mar-Jun 2024)

Date	Revision	Checked	Approved
04-Apr-2024	0	RP	EW

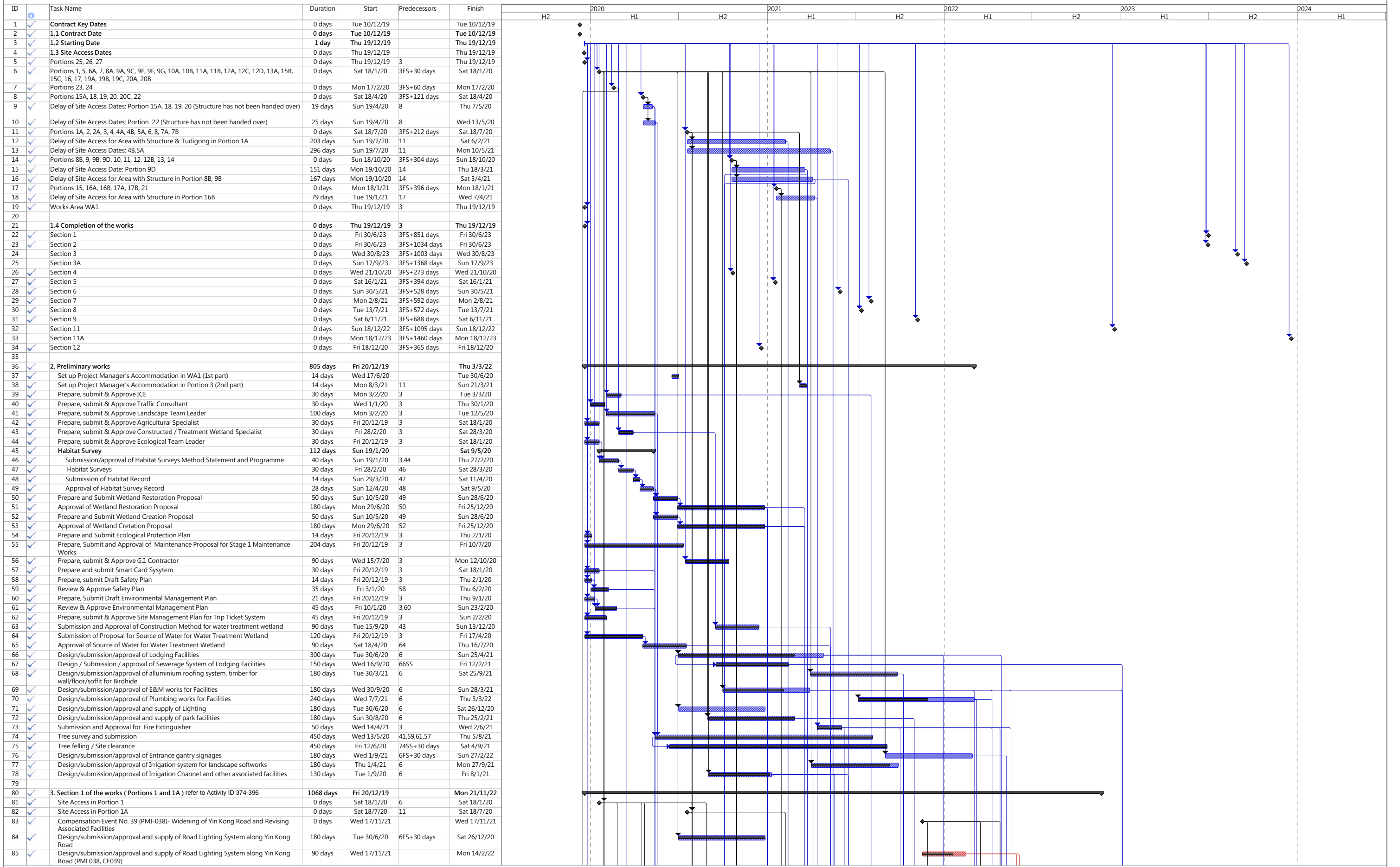
Kwu Tung North ND/2019/02 - Updated on : 2024/04/05



Legend	Item
	Pipe Jacking
	Sheet Pile
	Excavation
	Pipe pile

Construction Programme of ND/2019/03

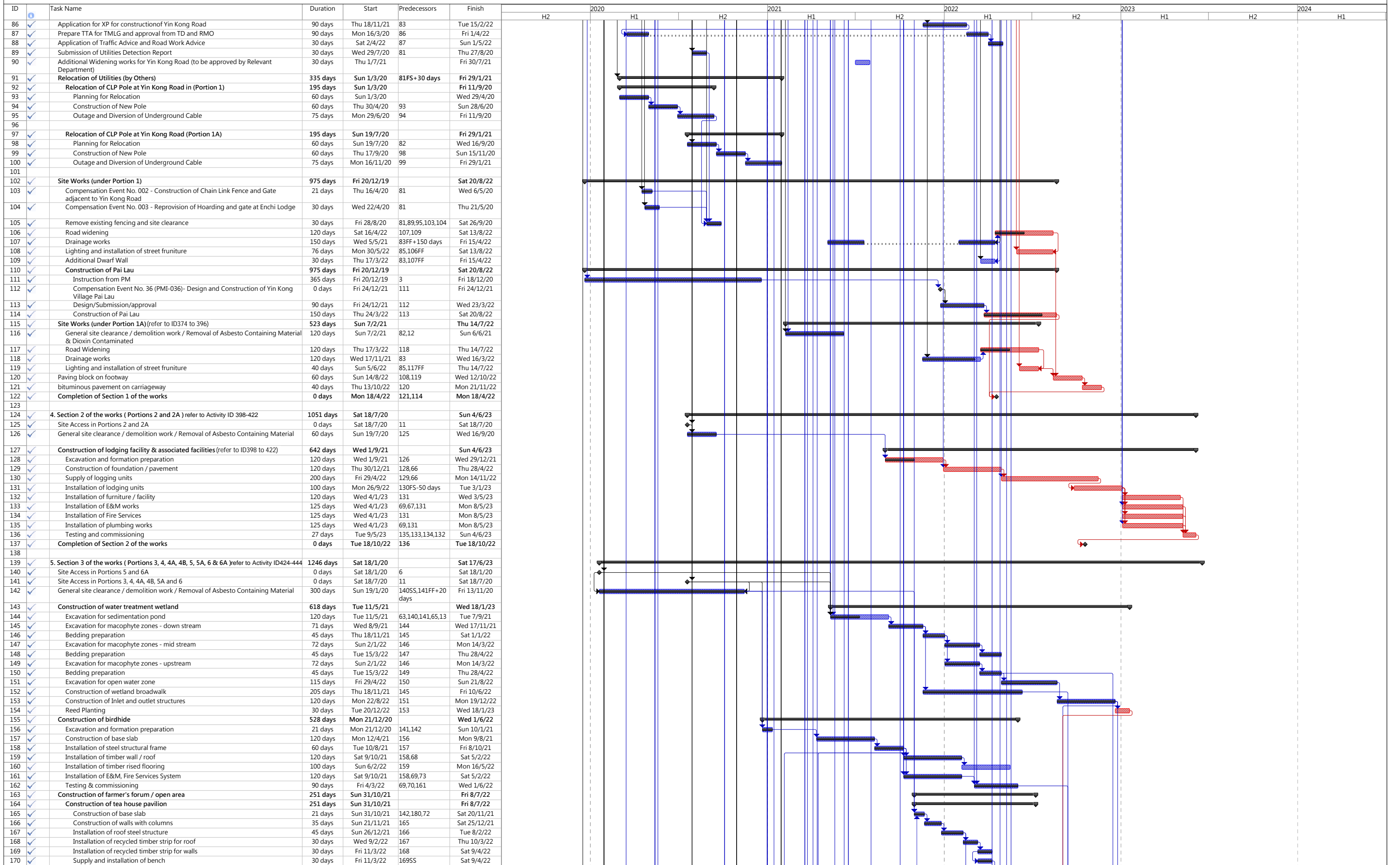
Kwu Tung North and Fanling North New Development Areas, Phase 1 : Development of Long Valley Nature Park
Project Programme of the Contract



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

Task		Summary		Rolled Up Milestone		External Tasks		Inactive Milestone		Duration-only		Start-only		External Milestone	
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Kwu Tung North and Fanling North New Development Areas, Phase 1 : Development of Long Valley Nature Park
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Kwu Tung North and Fanling North New Development Areas, Phase 1 : Development of Long Valley Nature Park

Project Programme of the Contract

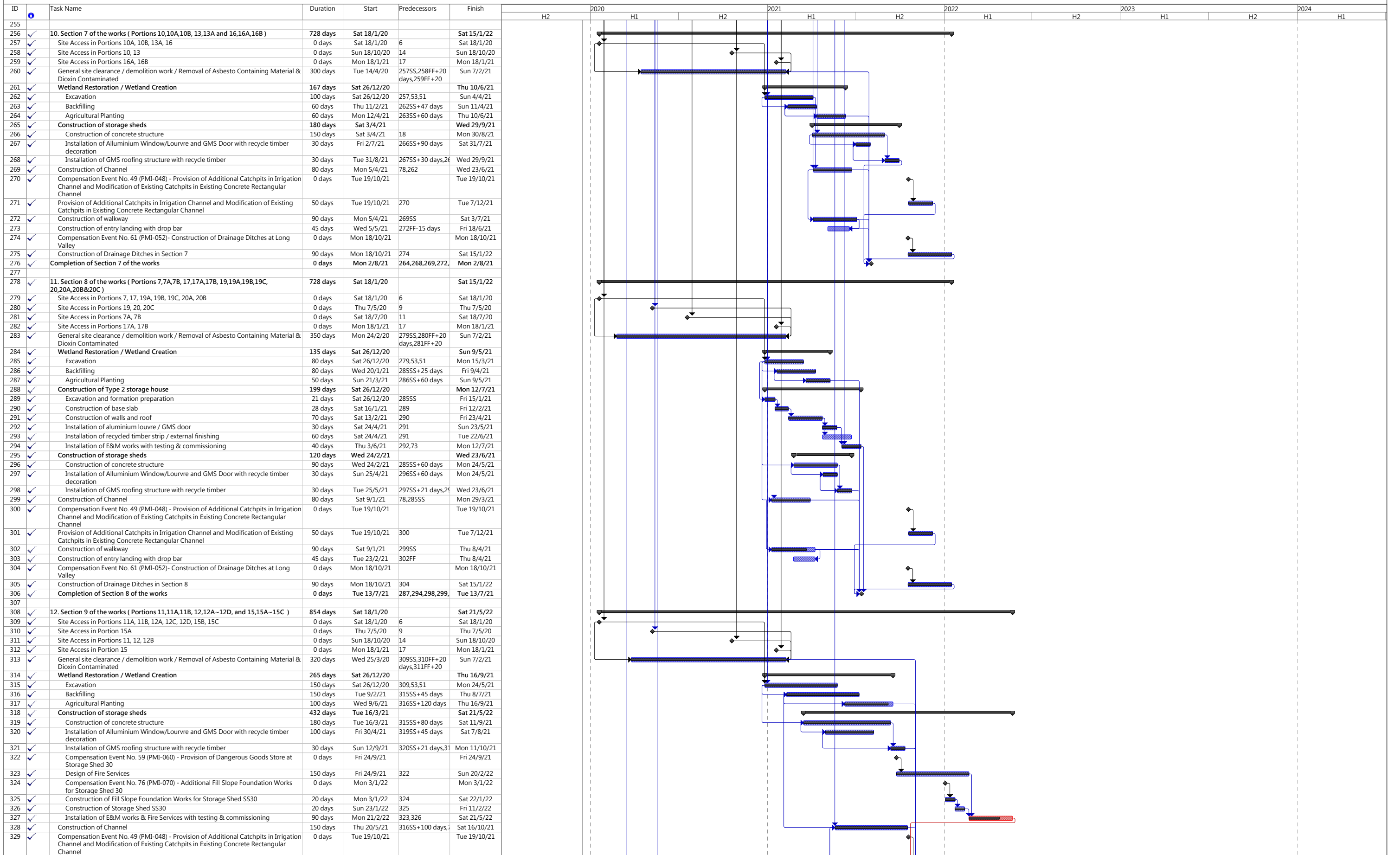
ID	Task Name	Duration	Start	Predecessors	Finish	Gantt Chart (2020-2024)											
171	Installation of plumbing works / E&M works with testing & commissioning	90 days	Sun 10/4/22	170,69,70,73	Fri 8/7/22	[Gantt bar for task 171]											
172	Construction of paving slab for open area	90 days	Wed 9/2/22	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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Kwu Tung North and Fanling North New Development Areas, Phase 1 : Development of Long Valley Nature Park

Project Programme of the Contract

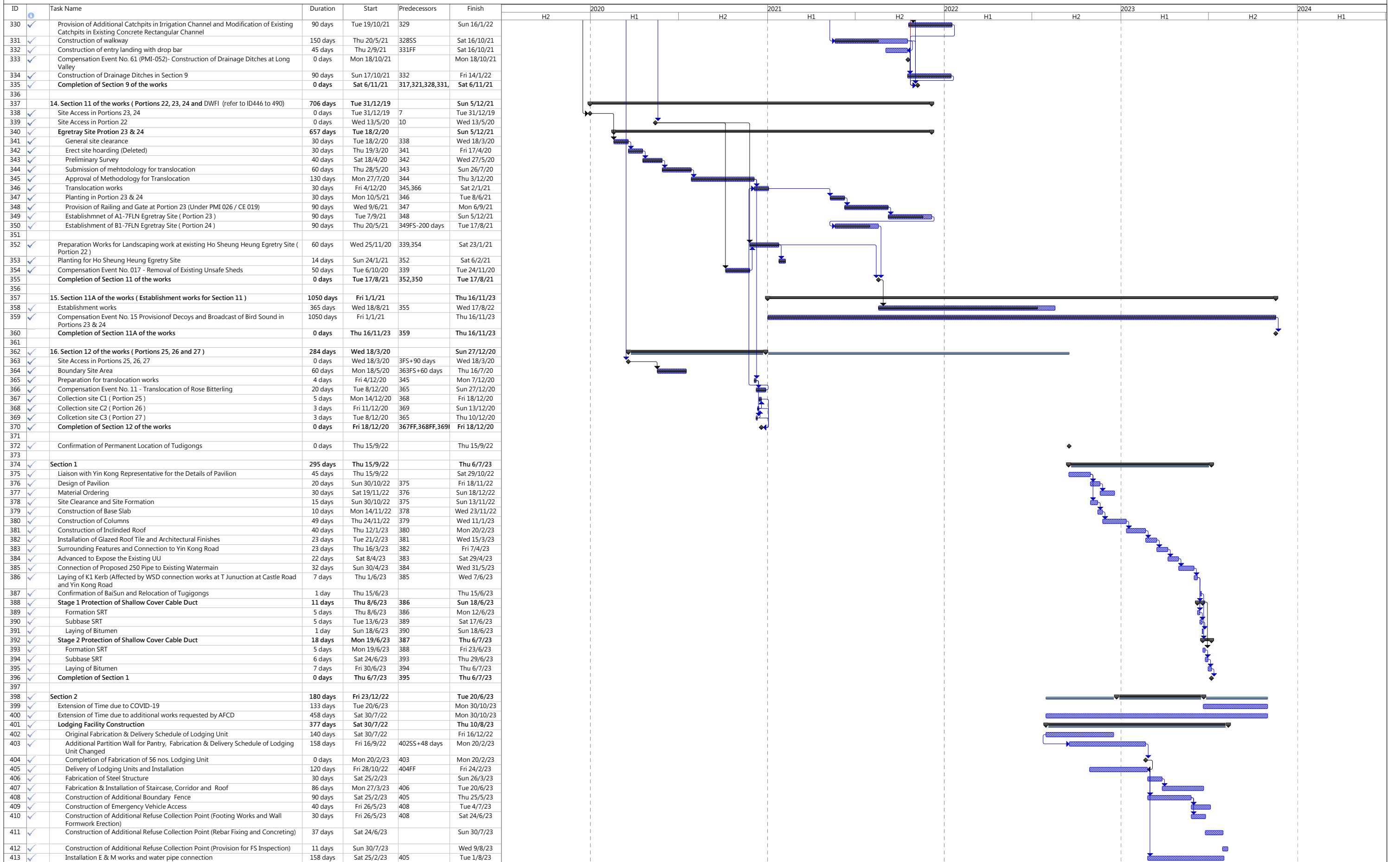


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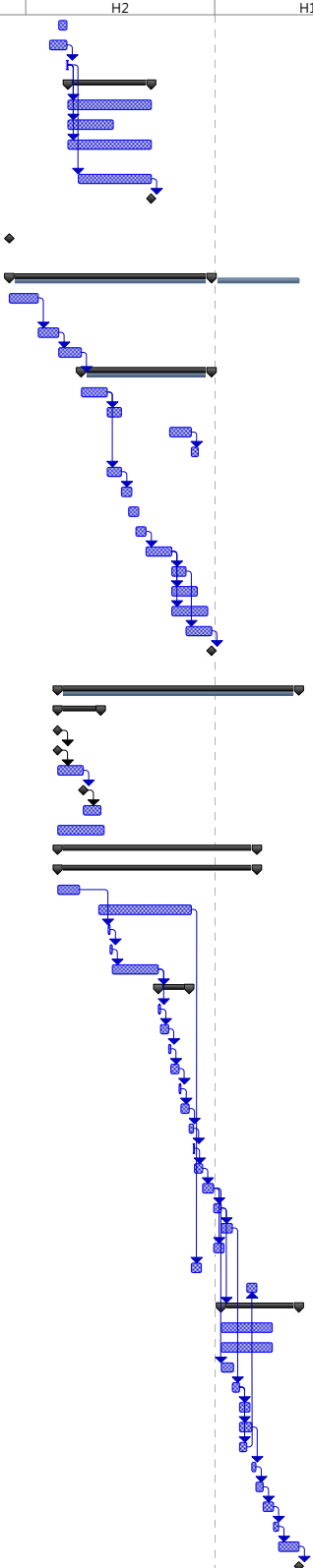
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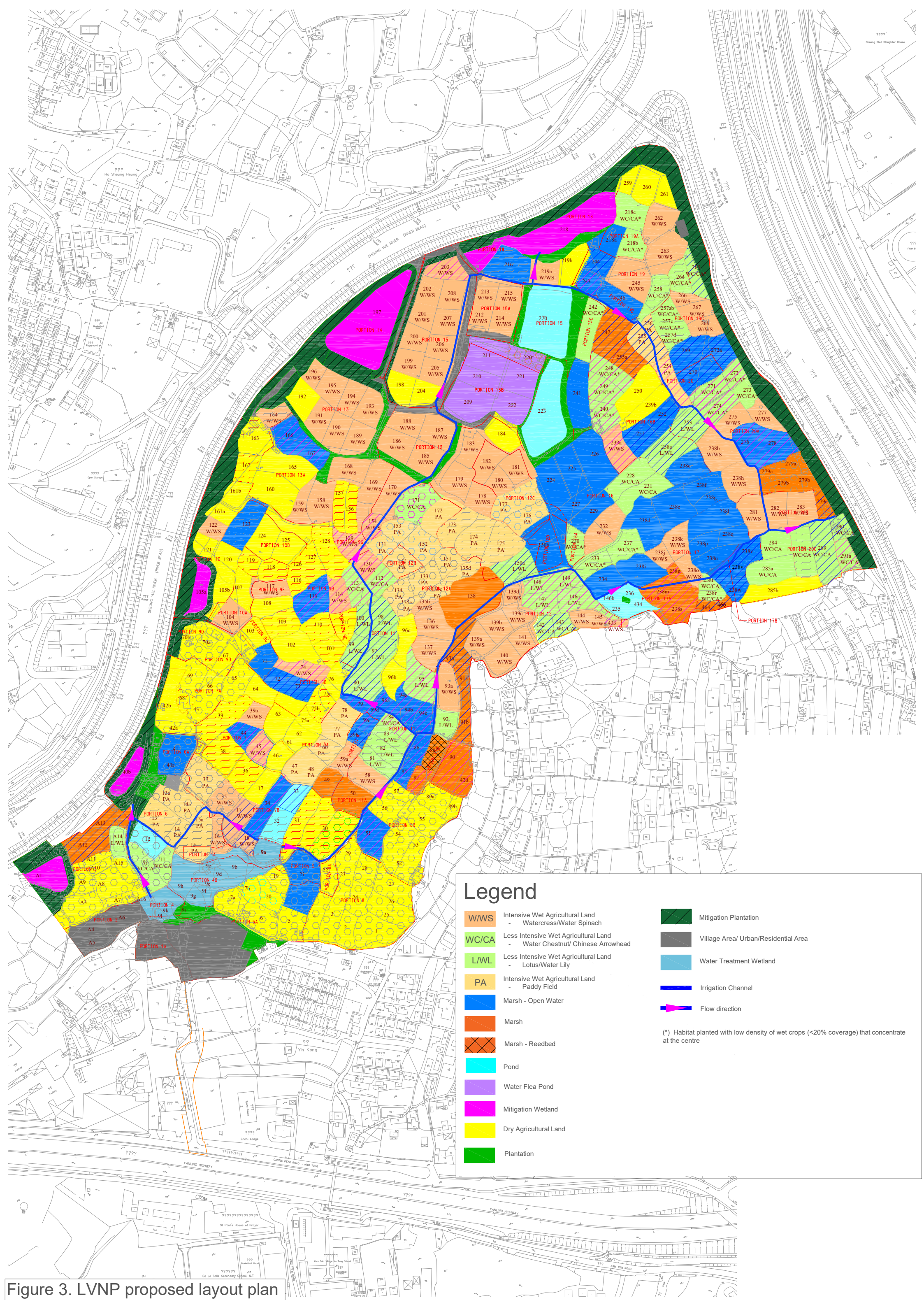
Project Programme of the Contract

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										



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Date : 2023-11-3

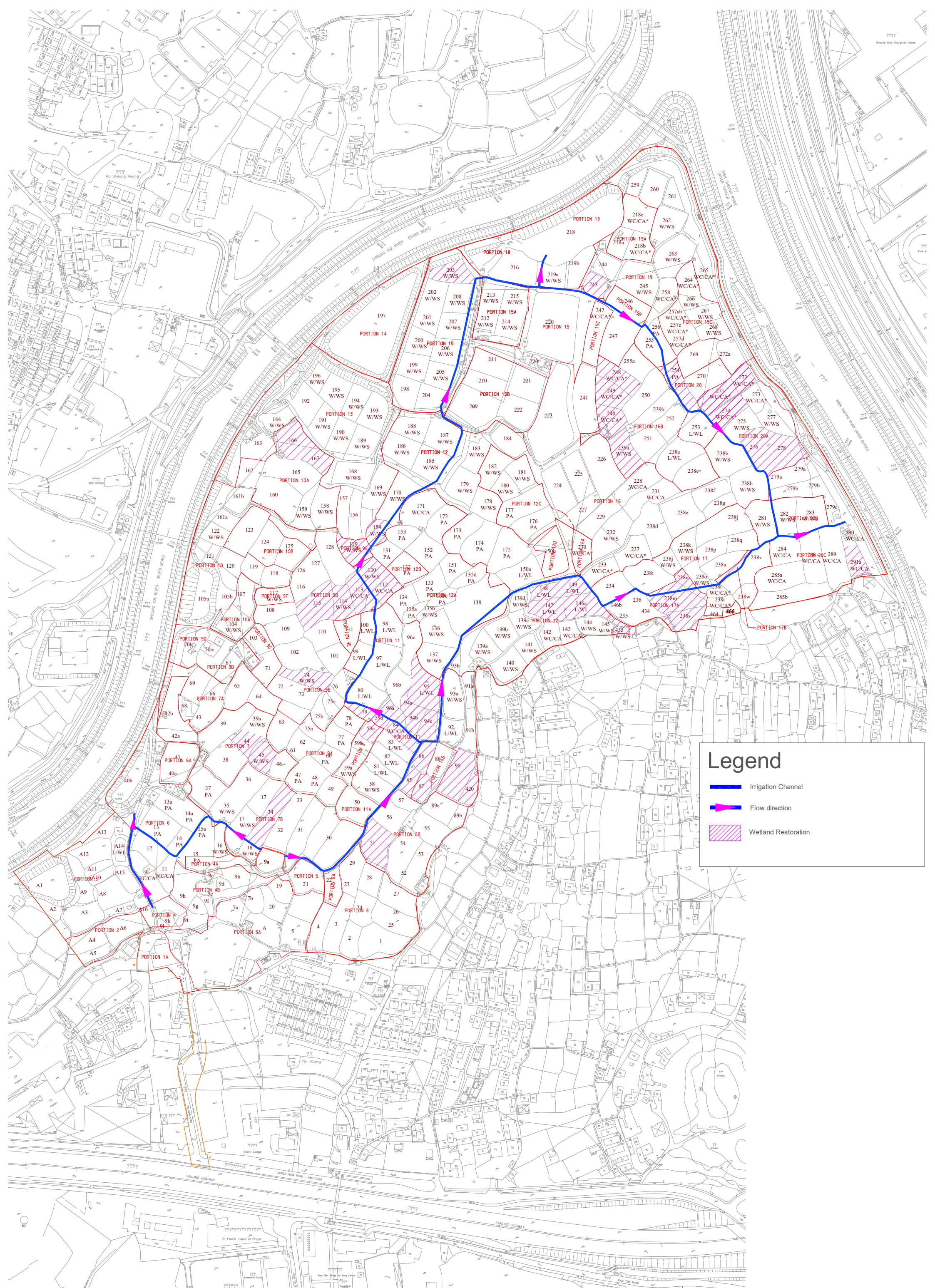
Task		Summary		Rolled Up Milestone		External Tasks		Inactive Milestone		Duration-only		Start-only		External Milestone	
Critical Task		Rolled Up Task		Rolled Up Progress		Project Summary		Inactive Summary		Manual Summary Rollup		Finish-only		Progress	
Milestone		Rolled Up Critical Task		Split		Group By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



Legend

- | | | | |
|--|---|--|--------------------------------------|
| WWS | 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

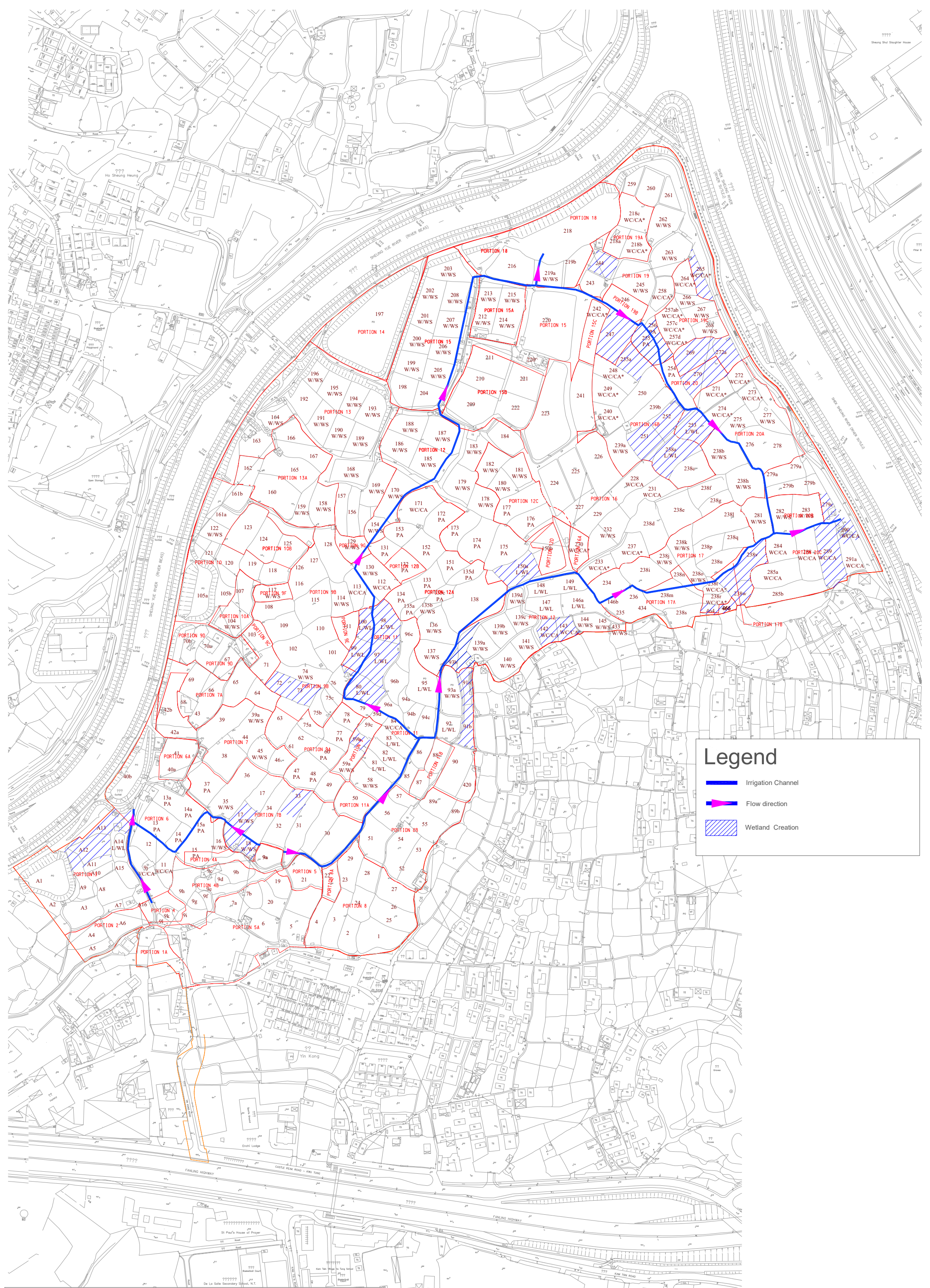
Figure 3. LVNP proposed layout plan



Legend

-  Irrigation Channel
-  Flow direction
-  Wetland Restoration

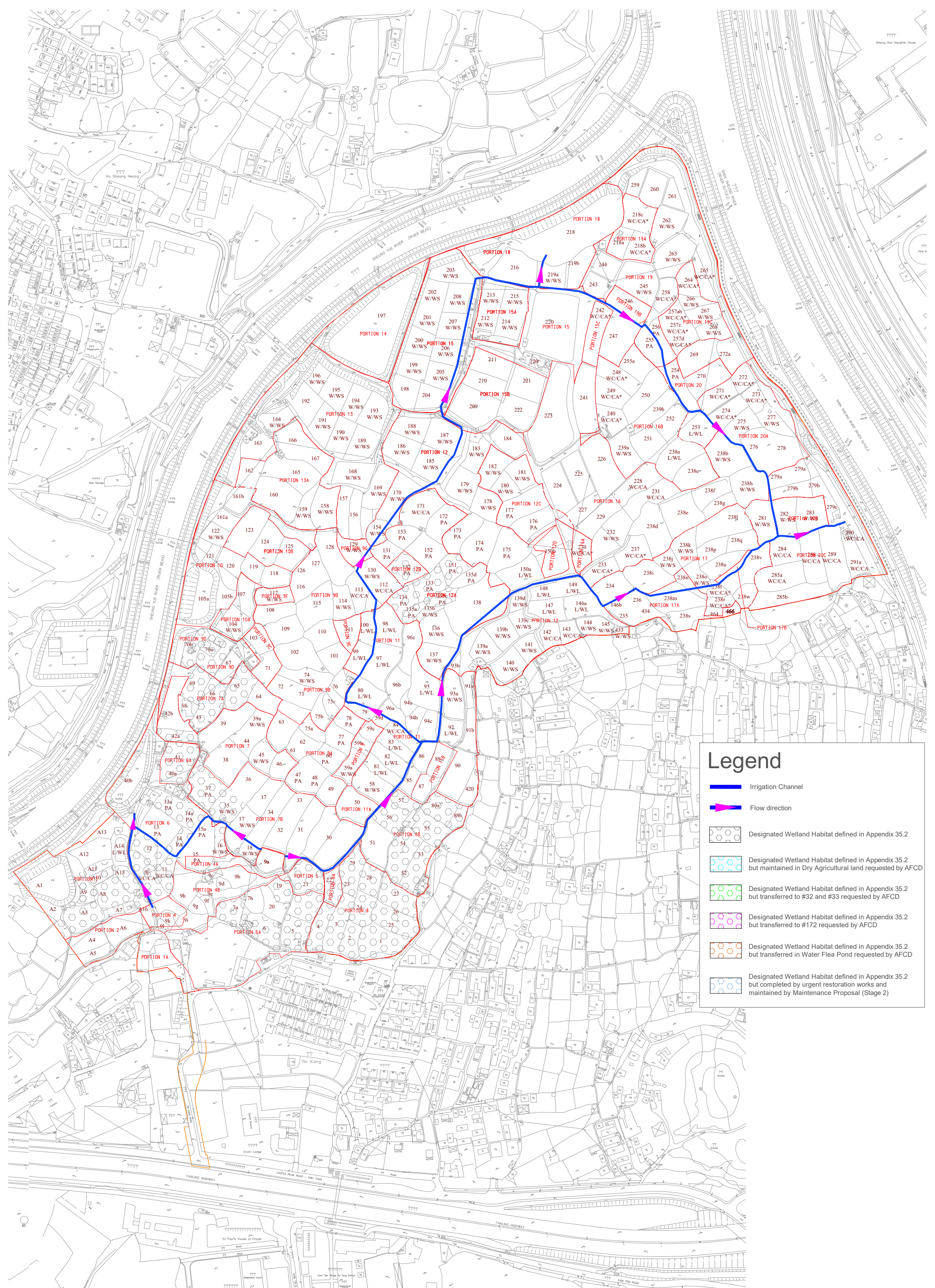
Figure 3a. The locations of wetland to be restored



Legend

- Irrigation Channel
- Flow direction
- Wetland Creation

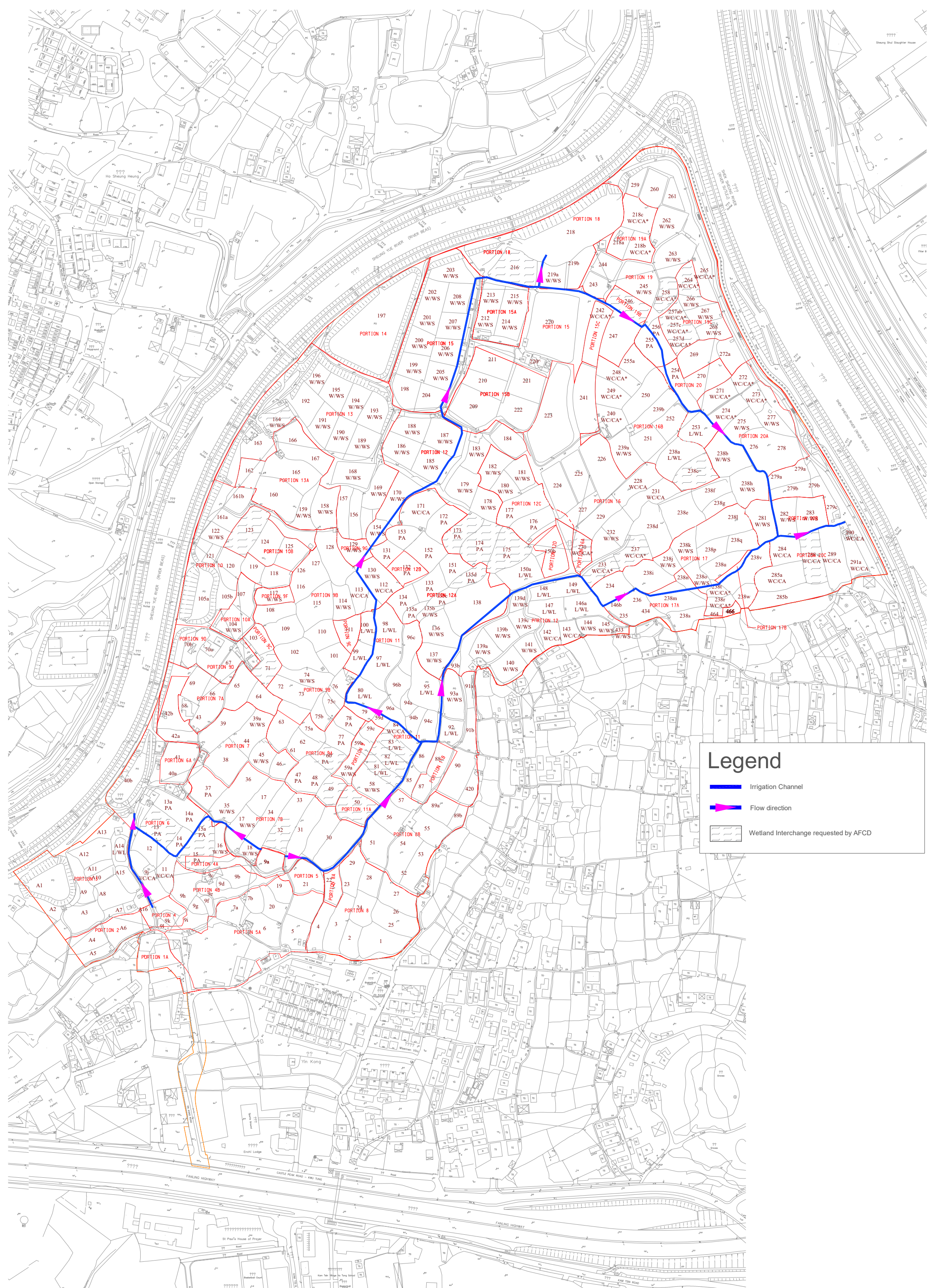
Figure 3b. The locations of wetland to be created



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)

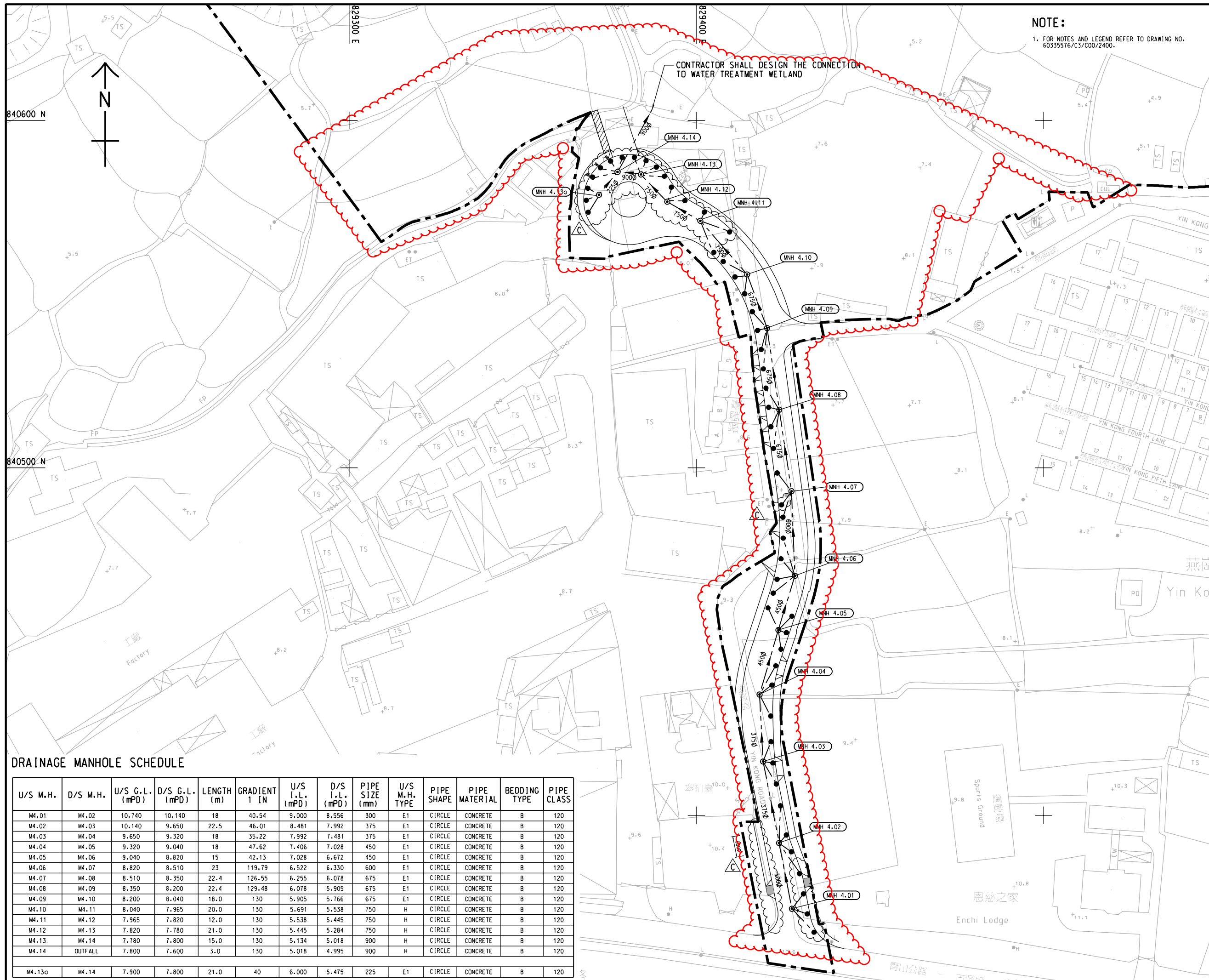
Figure 3c. Designated wetland habitats in Appendix 35.2



Legend

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

Figure 3d. Wetland interchange requested by AFCD



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

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

REV.	DATE	DESCRIPTION	DRAWN	PRE.	APP.
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

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	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										
										Feb	Mar	Apr	May	Jun	Jul	Aug	Sep			
2024-02 Monthly Update (based on RP07-7 Accepted on 31 October 2023)																				
Preliminary Works																				
Submission																				
Preparation for relevant works																				
SUB-1120	Prepare, submit & accept work submission for erect NB steel post and panel	146	18	08-Aug-23 A	28-Mar-24	08-Aug-23	28-Mar-24	-52	87.67%											
SUB-1450	Bio-treatment Plant for Public Toilet	90	20	08-Aug-22 A	03-Apr-24	08-Aug-22	03-Apr-24	14	77.78%											
SUB-1470	Traffic Control and Surveillance System (TCSS)	90	18	08-Aug-22 A	28-Mar-24	08-Aug-22	28-Mar-24	79	80%											
SUB-1510	Crash cushion system.	90	19	08-Aug-22 A	02-Apr-24	08-Aug-22	02-Apr-24	62	78.89%											
Construction Works																				
Initial Works																				
CW-1010	Protection of tree at different portions (S8)	429	162	22-Jul-23 A	23-Sep-24	22-Jul-23	21-Oct-24	154	62.24%											
TTAs at Proximity of Interchange (Bet. Ma Sik Rd and Sha Tau Kok Road)																				
TTA no.2																				
Full closure of On Kui Street for Subsequent Works																				
INTS2-3040b	Necessary diversion works near the new entrance of wholesale market (for full closure of On Kui St)-Part 2	37	38	09-Dec-23 A	25-Apr-24	09-Dec-23	25-Apr-24	-187	0%											
TTA no.3																				
INTS3-0010	Design, submit, processing & approval for TTA no.3	180	53	15-May-23 A	14-May-24	15-May-23	14-May-24	40	70.56%											
At-grade Roadworks Including External Works																				
Portion A																				
Noise Barrier NB91																				
OTH-A-500.2	Break planter, cast concrete footpath	12	6	30-Sep-23 A	14-Mar-24	30-Sep-23	14-Mar-24	-114	50%											
OTH-A-500.3	Noise barrier 91- ELSW for pile cap	30	30	15-Mar-24	23-Apr-24	15-Mar-24	23-Apr-24	-114	0%											
OTH-A-5000	Noise barrier 91- Footing (Stage 1)	45	45	24-Apr-24	18-Jun-24	24-Apr-24	18-Jun-24	-114	0%											
OTH-A-5010	Noise barrier 91 - Footing (Stage 2)	45	45	19-Jun-24	10-Aug-24	19-Jun-24	10-Aug-24	-114	0%											
Noise Barrier NB53																				
OTH-A-400.2	Break planter, cast concrete footpath	12	12	08-Mar-24	21-Mar-24	08-Mar-24	21-Mar-24	80	0%											
OTH-A-400.3	Noise barrier 53- ELSW for piling platform and pile cap	30	30	22-Mar-24	30-Apr-24	22-Mar-24	30-Apr-24	80	0%											
OTH-A-4000	Noise barrier 53- Piling - Assume CSD approved- mini pile : 80 nos, 1.5 day / pile (Stage 1)	60	60	02-May-24	13-Jul-24	02-May-24	13-Jul-24	80	0%											
Portion B																				
South Part of L3 Road																				
Southbound																				
OTH-B-403C	Wall of NB52	0	1	30-Jul-23 A	08-Mar-24	30-Jul-23	23-Mar-24	-112	0%											
OTH-B-403C	Fabrication of Steel works and panel for noise barrier NB51 & NB52	0	0	02-Apr-24	02-Apr-24	02-Apr-24	20-Jul-24	394	0%											
OTH-B-403C	Steel works and panel for noise barrier NB51 & NB52 (Part 1)	0	0	02-Apr-24	02-Apr-24	22-Jul-24	06-Nov-24	394	0%											
OTH-B-403C	Steel works and panel for noise barrier NB51 & NB52 (Part 2)	0	0	02-Apr-24	02-Apr-24	07-Nov-24	26-Feb-25	394	0%											
OTH-B-4040	Backfilling for drainage works	50	17	15-Jan-24 A	28-Mar-24	15-Jan-24	27-Apr-24	-112	66%											
OTH-B-4050	Temporary access	30	30	02-Apr-24	08-May-24	29-Apr-24	04-Jun-24	-112	0%											
OTH-B-4060	Remove existing concrete ramp	30	30	09-May-24	14-Jun-24	05-Jun-24	11-Jul-24	-112	0%											
Northbound (From Ma Sik Rd to CL 250)																				
OTH-B-5000	Backfilling for drainage works	50	50	15-Jun-24	13-Aug-24	12-Jul-24	07-Sep-24	-112	0%											
OTH-B-5100b	Procurement (by CLP)	180	90	17-Nov-23 A	28-Jun-24	17-Nov-23	25-Jul-24	258	50%											
North Part of L3 Road																				
Southbound																				
OTH-B-6000	ELS for drainage works	45	45	02-Apr-24	27-May-24	29-Apr-24	22-Jun-24	-20	0%											
OTH-B-6000a	Drainage works	34	34	28-May-24	08-Jul-24	24-Jun-24	02-Aug-24	-20	0%											
Northbound																				
OTH-B-7000	Excavation for U-trough	51	51	08-Mar-24	11-May-24	08-Mar-24	11-May-24	6	0%											
OTH-B-7010	Slab of U-trough	54	54	13-May-24	17-Jul-24	13-May-24	17-Jul-24	6	0%											
OTH-B-7070a	Procurement of Lighting for gantry	199	199	08-Mar-24	07-Nov-24	08-Mar-24	07-Nov-24	62	0%											
Portion Q																				

■ Remaining Work ◆ Crit Milestone
◇ Milestone ■ Actual Work
◇ Baseline Milestone ◆ Actual Milestone
■ Project Baseline
■ Critical Remaining Work

Project ID: RP07-7-MU02-2024

Three Months Rolling Programme (08 March 2024 to 30 June 2024)

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Data Date: 08-Mar-24
Printed: 22-Mar-24 16:01
Layout: 3 MRP Layout
 TASK filter: 3 Months
 Lookahead.

Baseline Programme RP07 Accepted on 31 October 2023			
Date	Revision	Ch...	Approved
08-Mar-24	Data Date		



Activity ID	Activity Name	Orig. Dur.	Rem. Dur.	Start	Finish	BL Start RP07	BL Finish RP07	Total Float	Activity % Complete	2024							
										Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Portion Q Additional Work																	
OTH-1032-1c	Additional ducting	30	30	08-Mar-24	16-Apr-24	08-Mar-24	16-Apr-24	-232	0%								
Portion R																	
Portion R Additional Work (Ducting Works)																	
OTH-1046-7d	Additional ducting	30	30	17-Apr-24	23-May-24	17-Apr-24	23-May-24	-232	0%								
Portion S																	
OTH-1050b20	Subway Extension - Base Slab (RHS)	8	8	08-Mar-24	16-Mar-24	08-Mar-24	16-Mar-24	-196	0%								
OTH-1050b30	Demolition of Existing Structure (LHS)	10	10	18-Mar-24	28-Mar-24	18-Mar-24	28-Mar-24	-196	0%								
OTH-1050b40	Subway Extension - Base Slab (LHS)	8	8	02-Apr-24	11-Apr-24	02-Apr-24	11-Apr-24	-196	0%								
OTH-1050b50	Erection of Working Platform and erection of Falsework and Gantry	18	18	12-Apr-24	03-May-24	12-Apr-24	03-May-24	-196	0%								
OTH-1050b60	Subway Extension - Wall and top slab	17	17	04-May-24	24-May-24	04-May-24	24-May-24	-196	0%								
OTH-1050b70	Removal of ELS and Backfilling	23	23	25-May-24	21-Jun-24	25-May-24	21-Jun-24	-196	0%								
Portion U																	
Area 4																	
OTH-1070-2g	Demolition of existing central divider	15	15	08-Mar-24	25-Mar-24	08-Mar-24	25-Mar-24	-180	0%								
OTH-1070-2h	Drainage	22	22	26-Mar-24	24-Apr-24	26-Mar-24	24-Apr-24	-180	0%								
OTH-1070-2i	Construction of new central divider	15	15	25-Apr-24	13-May-24	25-Apr-24	13-May-24	-180	0%								
OTH-1070-2i'	Relocate public light	15	15	14-May-24	31-May-24	14-May-24	31-May-24	-180	0%								
OTH-1070-2i'	Relocate traffic signal post	15	15	14-May-24	31-May-24	14-May-24	31-May-24	-180	0%								
OTH-1070-2i'	Road marking	1	1	01-Jun-24	01-Jun-24	01-Jun-24	01-Jun-24	-180	0%								
Area 3																	
OTH-1070-3a	Subway extension	60	14	11-Aug-23 A	23-Mar-24	11-Aug-23	23-Mar-24	-136	76.67%								
OTH-1070-3d	Street furniture	15	10	09-Jan-24 A	09-Apr-24	09-Jan-24	09-Apr-24	-136	33.33%								
OTH-1070-3e	Construction of carriageway and road marking	18	4	21-Oct-23 A	28-Mar-24	21-Oct-23	28-Mar-24	-130	77.78%								
Portion U Additional Works																	
OTH-1070-4a	XP, TTA and RA	0	1	03-May-23 A	08-Mar-24	03-May-23	08-Mar-24	-173	0%								
OTH-1070-4c	Additional ducting	30	30	24-May-24	28-Jun-24	24-May-24	28-Jun-24	-232	0%								
Portion V,Y																	
Area 1 (New Footpath Area)																	
OTH-1080-1b	Relocate Fire Hydrant	30	3	04-Sep-23 A	11-Mar-24	04-Sep-23	14-Mar-24	-227	90%								
OTH-1080-1d	Carriageway	19	9	15-Jan-24 A	21-Mar-24	15-Jan-24	25-Mar-24	-227	52.63%								
Area 2 (Pedestrian Crossing)																	
OTH-1080-2c	Demolish existing central divider	20	20	22-Mar-24	18-Apr-24	26-Mar-24	22-Apr-24	-227	0%								
OTH-1080-2c	Roadworks	28	28	19-Apr-24	23-May-24	23-Apr-24	27-May-24	-227	0%								
OTH-1080-2c	Drainage	7	7	24-May-24	31-May-24	28-May-24	04-Jun-24	-227	0%								
OTH-1080-2c	Road lighting	7	7	01-Jun-24	08-Jun-24	05-Jun-24	13-Jun-24	-220	0%								
OTH-1080-2c	Traffic signal system	14	14	01-Jun-24	18-Jun-24	05-Jun-24	21-Jun-24	-227	0%								
OTH-1080-2d	Construct new central divider and traffic island	21	21	19-Jun-24	13-Jul-24	22-Jun-24	17-Jul-24	-227	0%								
Area 3 (New Pedestrian Crossing Island)																	
OTH-1080-2c	Trial Pit	10	10	22-Mar-24	06-Apr-24	26-Mar-24	10-Apr-24	-187	0%								
OTH-1080-2c	Site Clearance	5	5	08-Apr-24	12-Apr-24	11-Apr-24	16-Apr-24	-187	0%								
OTH-1080-2c	Traffic Signal System	14	14	13-Apr-24	29-Apr-24	17-Apr-24	03-May-24	-187	0%								
OTH-1080-2c	Form Pedestrian Crossing and Island	21	21	30-Apr-24	25-May-24	04-May-24	29-May-24	-187	0%								
Portion VY Additional Work																	
OTH-1080-4a	XP, TTA and RA	0	2	08-May-23 A	09-Mar-24	08-May-23	09-Mar-24	-144	0%								
OTH-1080-4c	Additional ducting	30	30	29-Jun-24	03-Aug-24	29-Jun-24	03-Aug-24	-232	0%								
Portion X																	
OTH-2030-1	Backfilling (RHS)	41	9	15-Dec-23 A	18-Mar-24	15-Dec-23	18-Mar-24	-179	78.05%								
OTH-2030a	Site formation, wing wall, retaining wall (Part 2)-LHS	28	9	31-Aug-23 A	18-Mar-24	31-Aug-23	18-Mar-24	-170	67.86%								
OTH-2030a-1	Backfilling (LHS)	29	21	18-Dec-23 A	16-Apr-24	18-Dec-23	16-Apr-24	-170	27.59%								
OTH-2030c	Street furniture and relocate directional sign (RHS)	31	31	19-Mar-24	27-Apr-24	19-Mar-24	27-Apr-24	-179	0%								

■ Remaining Work
◆ Milestone
◆ Baseline Milestone
▬ Project Baseline
▬ Critical Remaining Work
◆ Crit Milestone
▬ Actual Work
◆ Actual Milestone

Project ID: RP07-7-MU02-2024

Three Months Rolling Programme (08 March 2024 to 30 June 2024)

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Data Date: 08-Mar-24
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Baseline Programme RP07 Accepted on 31 October 2023			
Date	Revision	Ch...	Approved
08-Mar-24	Data Date		



Activity ID	Activity Name	Orig. Dur.	Rem. Dur.	Start	Finish	BL Start RP07	BL Finish RP07	Total Float	Activity % Complete	2024								
										Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
OTH-2030c1	Street furniture (LHS)	20	20	17-Apr-24	10-May-24	17-Apr-24	10-May-24	-170	0%									
OTH-2040	Construct new pavement at carriageway (RHS)	26	26	29-Apr-24	30-May-24	29-Apr-24	30-May-24	-179	0%									
OTH-2040-1	Construct new pavement at carriageway (remaining at LHS)	7	7	11-May-24	20-May-24	11-May-24	20-May-24	-170	0%									
OTH-2060	Road marking	1	1	31-May-24	31-May-24	31-May-24	31-May-24	-179	0%									
Bridge F																		
Stage 8 Cofferdam modification and Formation in Both sides																		
North side																		
BWFW-8000-1	Remove north cofferdam	27	52	28-Feb-24 A	12-Mar-25	28-Feb-24	28-Mar-24	-87	0%									
Stage 10 ELS installation & Excavation and Pile Cap & piers in S.side																		
BWFW-10020	F-02 Pile cap construction (1nos, 30d/ cap, 1 workfront)	30	16	30-Dec-23 A	26-Mar-24	30-Dec-23	21-Feb-24	-4	46.67%									
BWFW-10030	F-02 Pier construction (1no. column & pier, 30d/pier, 1no. workfront)	30	30	22-Feb-24 A	06-May-24	22-Feb-24	16-Mar-24	-4	0%									
BWFW-10040	Backfill and remove the ELS system (F-02)	14	14	07-May-24	23-May-24	18-Mar-24	06-Apr-24	-4	0%									
BWFW-10050	Remove the temporary fill in the cofferdam (F-02)	12	12	24-May-24	06-Jun-24	08-Apr-24	08-Apr-24	-4	0%									
Stage 11 Abutment construction in S.side																		
BWFW-11000	Install sheet pile using vibration hammer to form ELS system for the pile cap F-01 (After F-02 bored pile)	24	10	21-Feb-24 A	19-Mar-24	21-Feb-24	19-Mar-24	-87	58.33%									
BWFW-11010	ELS and install wailing and strut F-01	30	30	20-Mar-24	27-Apr-24	20-Mar-24	27-Apr-24	-87	0%									
BWFW-11020	F-01 Pile cap construction (1nos, 30d/ cap, 1 workfront)	30	30	29-Apr-24	04-Jun-24	29-Apr-24	04-Jun-24	-87	0%									
BWFW-11040	Abutment F-01M construction(1no. 60d/abt, 1no.workfront)	47	47	05-Jun-24	31-Jul-24	05-Jun-24	31-Jul-24	-87	0%									
Stage 12 Falsework erection in Middle of Ng Tung River																		
BWFW-12000	Erect steel platform between pier F-02 and F-03 (after F-03 and F-04 Deck)	60	11	09-Dec-23 A	20-Mar-24	09-Dec-23	15-Mar-24	31	81.67%									
Bridge A1																		
Pile cap of Bridge A1 Foundation																		
BWBC-1050	Pile cap for Abt A1-01M (1 no. pile cap, 45d/cap, 1no. workfront)	40	13	28-Nov-23 A	22-Mar-24	28-Nov-23	19-Feb-24	-56	67.5%									
Construction of Bridge A1 Substructure																		
BWBS-1070	Pier A1-02a/b (2nos. column, 36d/column, 1 no. workfront)	23	13	17-Jul-23 A	22-Mar-24	17-Jul-23	22-Mar-24	-42	43.48%									
BWBS-1220	Abt A1-01M (1no. abutment, ~60 d/abutment, 1no. workfront)	60	47	20-Feb-24 A	23-May-24	20-Feb-24	04-May-24	-56	21.67%									
Construction of Bridge A1 Deck																		
Between Pier A1-06 and Pier A1-05 (Deck A)																		
BWBD-1060-4	Cast in-site Bridge Deck btw A1-05 and A1-06 (Deck A), 52days/span	52	11	08-Jan-24 A	20-Mar-24	08-Jan-24	20-Mar-24	-144	78.85%									
BWBD-1060-5	Post tensioning slab tendons between A1-05 and A1-06 (Deck A) (including achieve concrete strength)	12	12	21-Mar-24	08-Apr-24	21-Mar-24	08-Apr-24	-144	0%									
BWBD-1060-6	Removal of scaffolding between A1-05 and A1-06 (Deck A)	19	19	09-Apr-24	30-Apr-24	09-Apr-24	24-Apr-24	-144	0%									
Between Pier A1-05 and Pier A1-04 (Deck A) & Pier A1-05 and A1-06 (Deck B)																		
BWBD-1061-1	Falsework erection btw A1-04 and A1-05 (Deck A) & btw A1-05 and A1-06 (Deck B)	21	11	08-Feb-24 A	20-Mar-24	25-Apr-24	11-May-24	-144	50%									
BWBD-1061-2	Cast in-site Bridge Deck btw A1-04 and A1-05 (Deck A) & btw A1-05 and A1-06 (Deck B), 52days/span	52	52	21-Mar-24	27-May-24	13-May-24	06-Jul-24	-144	0%									
BWBD-1061-3	Post tensioning slab tendons btw A1-04 and A1-05 (Deck A) & btw A1-05 and A1-06 (Deck B)	12	12	28-May-24	11-Jun-24	08-Jul-24	20-Jul-24	-144	0%									
BWBD-1061-4	Removal of scaffolding btw A1-04 and A1-05 (Deck A) & btw A1-05 and A1-06 (Deck B)	19	19	12-Jun-24	04-Jul-24	22-Jul-24	06-Aug-24	-144	0%									
Between Pier A1-04 and Pier A1-03 (Deck A) & Pier A1-04 and A1-05 (Deck B)																		
BWBD-1062	Falsework erection btw A1-03 and A1-04 (Deck A) & btw A1-04 and A1-05 (Deck B)	21	21	02-May-24	27-May-24	07-Aug-24	22-Aug-24	-144	0%									
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	52	28-May-24	29-Jul-24	23-Aug-24	17-Oct-24	-144	0%									
Between Pier A1-03 and Pier A1-02 (Deck A) & Pier A1-03 and A1-04 (Deck B)																		
BWBD-1063	Falsework erection btw A1-02 and A1-03 (Deck A) & btw A1-03 and A1-04 (Deck B)	21	21	05-Jul-24	29-Jul-24	18-Nov-24	03-Dec-24	-144	0%									
Between Pier A1-02 and Pier A1-01 (Deck A) & Pier A1-02 and A1-03 (Deck B)																		
BWBD-1064-1	Bearing installation at A1-01	19	19	24-May-24	15-Jun-24	06-May-24	28-May-24	-56	0%									
Bridge A1 (Stitching and Parapet)																		

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										Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
BWF-1040-1	Long. Stitch (Bridge A1)- 1 span, between A1-06 and A1-05, 14 d/ span	14	14	09-Apr-24	24-Apr-24	09-Apr-24	24-Apr-24	-12	0%								
BWF-1040-11	Parapet between A1-06 and A1-05, 32 d/ span	32	32	25-Apr-24	03-Jun-24	25-Apr-24	03-Jun-24	-12	0%								
BWF-1040-2	Long. Stitch (Bridge A1)- 1 span, between A1-05 and A1-04, 14 d/ span	14	14	12-Jun-24	27-Jun-24	22-Jul-24	06-Aug-24	-32	0%								
BWF-1040-21	Parapet between A1-05 and A1-04, 32 d/ span	32	32	28-Jun-24	05-Aug-24	07-Aug-24	12-Sep-24	-32	0%								
Bridge A2																	
Construction of Bridge A2 Deck																	
Construction of Pier Table																	
A2-02																	
BWBD-1021a	Bridge A2 cast-in-situ pier table at A2-02	52	2	04-Dec-23 A	09-Mar-24	04-Dec-23	29-Feb-24	-74	96.15%								
A2-03																	
BWBD-1023a	Bridge A2 cast-in-situ portal at A2-03l and A2-03r	65	65	08-Mar-24	29-May-24	08-Mar-24	29-May-24	-58	0%								
A2-05																	
BWBD-1024	Bearing installation at A2-05 and temporary fixity	30	30	08-Mar-24	16-Apr-24	08-Mar-24	23-May-24	27	0%								
BWBD-1024a	Bridge A2 cast-in-situ pier table at A2-05	60	60	17-Apr-24	28-Jun-24	24-May-24	07-Sep-24	27	0%								
Form Traveller and Segment Erection Works																	
BWBD-1041	Bridge A2 by Form Traveler - Stage 1 (at Pier A2-04), Team A	76	22	17-Oct-23 A	06-Apr-24	17-Oct-23	23-Feb-24	-94	71.05%								
BWBD-1140	Bridge A2 by Form Traveler - Stage 2 (at Pier A2-02), Team A	79	79	08-Apr-24	12-Jul-24	02-Apr-24	04-Jun-24	-94	0%								
Bridge A3																	
Pile cap of Bridge A3 Foundation																	
BWBC-3000a	Pile cap for A3-01r (1nos. pile cap, 25d/cap, 1 workfronts)	25	7	31-Jan-24 A	15-Mar-24	31-Jan-24	28-Feb-24	-107	72%								
Construction of Bridge A3 Substructure																	
BWBS-1195	Pier A3-01l (1 no. column, 26d/column, portal, 2nos. workfront, 1 steel mould)- Stage 1	26	13	08-Feb-24 A	11-Apr-24	08-Feb-24	11-Apr-24	-126	50%								
BWBS-1195a	Pier A3-01r (1 no. column, 26d/column, portal, 2nos. workfront, 1 steel mould)- Stage 2	26	26	12-Apr-24	13-May-24	12-Apr-24	13-May-24	-126	0%								
BWBS-1210	Pier A3-03r (1 no. column, 26d/column, portal, 2nos. workfront, 1 steel mould)-stage 1	26	13	04-Jan-24 A	22-Mar-24	04-Jan-24	22-Mar-24	-126	50%								
BWBS-1260	Pier A3-03l (1 no. column, 26d/column, portal, 2nos. workfront, 1 steel mould)-stage 2	26	4	04-Jan-24 A	18-May-24	04-Jan-24	18-May-24	-40	84.62%								
Construction of Bridge A3 Deck																	
Construction of Pier table																	
BWBD-1086	Falsework Erection for A3 cast-in-situ pier table (A3-01)	16	16	14-May-24	01-Jun-24	14-May-24	06-Aug-24	-126	0%								
BWBD-1086a	Bridge A3 cast-in-situ pier table (A3-01)	47	47	03-Jun-24	29-Jul-24	07-Aug-24	07-Aug-24	-126	0%								
BWBD-1088	Falsework Erection for A3 cast-in-situ pier table (A3-03)	26	26	20-May-24	19-Jun-24	20-May-24	10-Aug-24	-40	0%								
BWBD-1088a	Bridge A3 cast-in-situ pier table (A3-03)	52	52	20-Jun-24	20-Aug-24	12-Aug-24	12-Aug-24	-40	0%								
Form Traveller and Segment Erection Works and Cast insitu Decking																	
BWBD-2110	Bridge A3 by Form Traveler Stage 5 (at Pier A3-02), Team B	114	108	27-Feb-24 A	20-Jul-24	27-Feb-24	20-Jul-24	-119	5.26%								
Between Pier A3-06 and Pier A3-05 (Deck A)																	
BWBD-1091	Falsework for Cast in Bridge Deck (From A3-05 to A3-06)	21	15	01-Mar-24 A	25-Mar-24	25-Jul-23	29-Sep-23	90	28.57%								
BWBD-1091	Cast in Bridge Deck (From A3-05 to A3-06) 60days/span, include falsework	60	60	26-Mar-24	11-Jun-24	15-Oct-23	05-Feb-24	90	0%								
BWBD-1091b	Post tensioning slab tendons between A3-05 and A3-06 (including achieve concrete strength)	12	6	06-Feb-24 A	18-Jun-24	06-Feb-24	24-Feb-24	138	50%								
BWBD-1091	Removal of scaffolding between A3-05 and A3-06	19	9	26-Feb-24 A	18-Mar-24	26-Feb-24	18-Mar-24	186	52.63%								
Between Pier A3-05 and Pier A3-04 (Deck A) & Between Pier A3-06 and Pier A3-05 (Deck B)																	
BWBD-1091a	Falsework for Cast in Bridge Deck btw A3-04 to A3-05 Deck A & Btw A3-06 and A3-05 Deck B	21	11	25-Jul-23 A	20-Mar-24	27-Dec-23	15-Jan-24	154	47.62%								
BWBD-1091a	Cast in Bridge Deck btw A3-04 to A3-05 Deck A & Btw A3-06 and A3-05 Deck B 60days/span	60	30	15-Oct-23 A	17-Jul-24	15-Jan-24	16-Apr-24	90	50%								
BWBD-1091a	Post tensioning slab tendons btw A3-04 to A3-05 Deck A & Btw A3-06 and A3-05 Deck B	12	6	06-Feb-24 A	24-Jul-24	17-Apr-24	30-Apr-24	114	50%								
BWBD-1091a	Removal of scaffolding btw A3-04 to A3-05 Deck A & Btw A3-06 and A3-05 Deck B	19	10	26-Feb-24 A	05-Aug-24	02-May-24	24-May-24	116	47.37%								
Between Pier A3-04 and Pier A3-03 (Deck A) & Between Pier A3-05 and Pier A3-04 (Deck B)																	

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BWBD-1091-3	Cast in Bridge Deck btw A3-03 to A3-04 Deck A & Btw A3-04 and A3-05 Deck B	60	30	15-Jan-24 A	21-Aug-24	19-Jul-24	19-Jul-24	90	50%									
Bridge G																		
Construction of Bridge G Foundation (Team 3) CSD																		
BWBF-1120	Abt G-06 (4 nos. pile, 15d/pile, 1 no. workfront)	60	12	04-Jan-24 A	26-Mar-24	04-Jan-24	26-Mar-24	36	80%									
BWBF-1150	Pier G-05 (1 no. pile, 15d/pile, 1 no. workfront)	15	4	30-Dec-23 A	12-Mar-24	30-Dec-23	12-Mar-24	36	73.33%									
ELS of Bridge G Foundation																		
BWBE-4000	ELS for Pier G-06	30	30	27-Mar-24	06-May-24	27-Mar-24	06-May-24	60	0%									
BWBE-4010	ELS for Pier G-05	0	0	13-Mar-24	13-Mar-24	13-Mar-24	20-Apr-24	102	0%									
BWBE-4020	ELS for Pier G-04	30	30	08-Mar-24	16-Apr-24	08-Mar-24	16-Apr-24	16	0%									
BWBE-4030	ELS for Pier G-03	0	0	08-Mar-24	08-Mar-24	08-Mar-24	16-Apr-24	59	0%									
BWBE-4040	ELS for Pier G-02	30	30	08-Mar-24	16-Apr-24	08-Mar-24	16-Apr-24	-31	0%									
BWBE-4050	ELS for Pier G-01	0	0	08-Mar-24	08-Mar-24	08-Mar-24	16-Apr-24	-31	0%									
Pile cap of Bridge G Foundation																		
BWBC-4000	Pile cap for G-01 (2nos. pile cap, 30d/cap, 1no. workfront)	0	0	08-Mar-24	08-Mar-24	17-Apr-24	28-Jun-24	-31	0%									
BWBC-4010	Pile cap for G-02 (1no. pile cap, 30d/cap, 1no. workfront)	30	30	17-Apr-24	23-May-24	17-Apr-24	23-May-24	-31	0%									
BWBC-4020	Pile cap for G-03 (1no. pile cap, 30d/cap, 1no. workfront)	0	0	08-Mar-24	08-Mar-24	17-Apr-24	23-May-24	59	0%									
BWBC-4030	Pile cap for G-04 (1no. pile cap, 30d/cap, 1no. workfront)	30	30	17-Apr-24	23-May-24	17-Apr-24	23-May-24	16	0%									
BWBC-4040	Pile cap for G-05 (1no. pile cap, 30d/cap, 1no. workfront)	0	0	13-Mar-24	13-Mar-24	22-Apr-24	28-May-24	102	0%									
BWBC-4050	Pile cap for G-06 (1no. pile cap, 30d/cap, 1no. workfront)	30	30	07-May-24	12-Jun-24	07-May-24	12-Jun-24	60	0%									
Construction of Bridge G Substructure																		
BWBS-1160	Pier G-01a/b (2nos. column, 30d/column, 1no. workfront)	60	60	08-Mar-24	23-May-24	29-Jun-24	07-Sep-24	-31	0%									
BWBS-1200	Pier G-02 (1no. column, 30d/column, 1no. workfront)	30	30	24-May-24	28-Jun-24	09-Sep-24	16-Oct-24	-31	0%									
BWBS-1230	Pier G-03 (1no. column, 30d/column, 1no. workfront)	30	30	29-Jun-24	03-Aug-24	17-Oct-24	20-Nov-24	-31	0%									
BWBS-1250	Pier G-04 (1no. column, 30d/column, 1no. workfront)	30	30	24-May-24	28-Jun-24	24-May-24	28-Jun-24	16	0%									
BWBS-1270	Pier G-05 (1no. column, 30d/column, 1no. workfront)	30	30	29-Jun-24	03-Aug-24	29-Jun-24	03-Aug-24	16	0%									
Construction of Bridge Furniture																		
Other Bridge Deck Works																		
BWF-108	Procurement of Installation of traffic detection system and TCSS items (KD5)	180	180	02-Apr-24	06-Nov-24	02-Apr-24	06-Nov-24	79	0%									
BWF-114	Procurement of Lightings items	180	158	08-Feb-24 A	17-Sep-24	08-Mar-24	16-Oct-24	150	12.22%									
BWF-1140a1-1	Procurement for deck void (by CLP)	180	158	08-Feb-24 A	17-Sep-24	09-Mar-24	17-Oct-24	180	12.22%									
BWF-1140a2-1	Procurement for bridge deck (by CLP)	158	158	08-Mar-24	17-Sep-24	09-Mar-24	17-Oct-24	180	0%									
Footbridge F4																		
Design and Fabrication (Steel Footbridge F4 and Lighting)																		
BWBF-136-2	Fabrication of steel element for Footbridge F4 (including 2 weeks holiday during Chinese New Year in Feb 2024)	64	31	29-Dec-23 A	17-Apr-24	29-Dec-23	14-May-24	161	51.56%									
BWBF-136-2a	Delivery of steel element (assuming contract to SC signed on or before end of Sept 2023)(assume 2 weeks delivery time)	10	10	18-Apr-24	29-Apr-24	16-May-24	27-May-24	161	0%									
BWBF-136-3	Lighting design (Civil requirement, Pillar box arrangement, Electrical Design, lighting and earthing, Lux simulation)	24	22	08-May-23 A	06-Apr-24	08-May-23	06-Apr-24	64	8.33%									
BWBF-136-3a	Approval of Lighting design(Civil requirement,Pillar box arrangement,Electrical Design,lighting&earthing,Lux simulation)	90	92	08-Mar-24 A	27-Jul-24	08-Apr-24	25-Jul-24	64	0%									
ELS of Bridge F4 Foundation																		
BWBE-5010	ELS for Pier F4-02	0	20	08-Feb-24 A	03-Apr-24	08-Feb-24	03-Apr-24	62	0%									
Pile cap of Bridge F4 Foundation																		
BWBC-5000	Pile cap for F4-01 (1no. pile cap, 30d/cap, 1no. workfront)	30	4	27-Jan-24 A	12-Mar-24	27-Jan-24	12-Mar-24	-2	86.67%									
BWBC-5010	Pile cap for F4-02 (1no. pile cap, 30d/cap, 1no. workfront)	30	30	05-Apr-24	10-May-24	05-Apr-24	10-May-24	62	0%									
Construction of Footbridge F4 Substructure																		
BWBS-1180	Footbridge F4-01 (1no. abutment, 60d/abutment, 1no. workfront)	60	60	13-Mar-24	28-May-24	13-Mar-24	28-May-24	48	0%									
BWBS-1240	Footbridge F4-02 (1no. abutment, 60d/abutment, 1no. workfront)	60	60	29-May-24	08-Aug-24	29-May-24	08-Aug-24	48	0%									
Footbridge F6 Cum Cycle Track																		
Design, Procurement and Fabrication (S960 Footbridge F6 and Lift)																		
INTS2-1450-0	Fabrication and delivery of steel element an canopy for Footbridge F6	99	99	08-Mar-24	10-Jul-24	06-Apr-24	03-Aug-24	-116	0%									

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INTS2-1450-1b	Fabrication for lift	165	61	01-Nov-23 A	24-May-24	01-Nov-23	20-Jun-24	11	63.03%							
INTS2-1450-1c	Design and Approval of bearing for Footbridge F6	90	89	07-Mar-24 A	27-Jun-24	06-Apr-24	24-Jul-24	-165	1.11%							
INTS2-1450-1d	Procurement of bearing	75	75	28-Jun-24	25-Sep-24	25-Jul-24	23-Oct-24	-165	0%							
INTS2-1450-2	Lighting design(Civil requirement,Pillar box arrangement,Electrical Design,lighting&earthing,Lux simulation)KD3-F6&SE	146	22	08-May-23 A	06-Apr-24	08-May-23	03-May-24	-100	84.93%							
INTS2-1450-2a	Procurement of lighting items and E&M items	144	144	08-Apr-24	27-Sep-24	04-May-24	25-Oct-24	-100	0%							
Footbridge F6 (Part C)																
INTS1-9120	ELS for F6 (Part C)- Pier C04 and Lift	52	52	08-Mar-24	13-May-24	08-Mar-24	13-May-24	-134	0%							
INTS1-9130	Construction of Substructure for F6 (Part C)- Pile cap	42	42	14-May-24	04-Jul-24	14-May-24	04-Jul-24	-134	0%							
INTS1-9130a	Construction of Substructure for F6 (Part C)- Pier C04	43	43	05-Jul-24	23-Aug-24	05-Jul-24	23-Aug-24	-134	0%							
Footbridge F6 (Part D)																
INTS1-9030	Construction of Substructure for F6 Part D- Pile cap	29	15	10-Dec-23 A	04-May-24	10-Dec-23	07-May-24	-77	50%							
INTS1-9030a	Construction of Substructure for F6 Part D- Pier C05	44	36	02-Jan-24 A	18-Jun-24	02-Jan-24	20-Jun-24	-77	18.18%							
Lift Tower and Footbridge F6 (Portion J)																
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	21	10-Nov-23 A	05-Apr-24	10-Nov-23	11-Apr-24	-14	59.62%							
INTS2-1330	F6 Falsework Erection (Part A)	14	14	06-Apr-24	22-Apr-24	12-Apr-24	27-Apr-24	-14	0%							
INTS2-3000c	F6 pier works C01, C02 (2 Piers), 1WF	60	30	09-Dec-23 A	16-Apr-24	09-Dec-23	11-May-24	-20	50%							
Part B (Some part After Cable D)																
INTS2-1060a	ELS for pile cap and pier at P07, P08, C03 (3 locations)	60	60	08-Mar-24	23-May-24	08-Mar-24	23-May-24	-160	0%							
INTS2-1100	Pile caps, Abutment Construction, 3 nos. of cap, 1WF, Stage 1	40	40	24-May-24	11-Jul-24	24-May-24	11-Jul-24	-160	0%							
Part D																
INTS2-1080a	Construction of Footbridge F6 Pier P06 after TTA no.2 (ELS, 1 cap, 1 pier)(Part D)	90	90	08-Mar-24	28-Jun-24	08-Mar-24	28-Jun-24	-86	0%							
INTS2-1380	Falsework Erection for Footbridge F6 (Part D)	20	20	29-Jun-24	23-Jul-24	29-Jun-24	23-Jul-24	-86	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	44	01-Feb-24 A	14-May-24	01-Feb-24	25-Jun-24	-20	50%							
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	04-Jul-24	02-Aug-24	04-Jul-24	02-Aug-24	91	0%							
Underpass at Portions H, J, K																
Underpass - ELS Works																
ELSW for Underpass Bays 9 - 11																
INTS2-4120	Install 1st layer of strut	9	3	03-Dec-23 A	28-Mar-24	03-Dec-23	03-Apr-24	-217	66.67%							
INTS2-4130	Excavation to below 2nd layer of strut	18	18	02-Apr-24	23-Apr-24	05-Apr-24	25-Apr-24	-217	0%							
INTS2-4140	Install 2nd layer of strut	9	9	24-Apr-24	04-May-24	26-Apr-24	07-May-24	-217	0%							
INTS2-4150	Excavate to founding level	18	18	06-May-24	27-May-24	08-May-24	29-May-24	-217	0%							
INTS2-4160	Formation and blinding	2	2	28-May-24	29-May-24	30-May-24	31-May-24	-217	0%							
INTS2-4160a	Waterproofing (Base slab and wall)	3	3	30-May-24	01-Jun-24	01-Jun-24	04-Jun-24	-217	0%							
ELSW for Underpass Bays 12 - 13																
INTS2-4180	Install 1st layer of strut	9	3	31-Jan-24 A	03-May-24	31-Jan-24	07-May-24	-220	66.67%							
INTS2-4190	Excavation to below 2nd layer of strut	12	12	04-May-24	18-May-24	08-May-24	22-May-24	-220	0%							
INTS2-4200	Install 2nd layer of strut	9	9	20-May-24	29-May-24	23-May-24	01-Jun-24	-220	0%							
INTS2-4200a	Excavate to founding level	12	12	30-May-24	13-Jun-24	03-Jun-24	17-Jun-24	-220	0%							
INTS2-4210	Formation and blinding	2	2	14-Jun-24	15-Jun-24	18-Jun-24	19-Jun-24	-220	0%							
INTS2-4220	Waterproofing (Base slab and wall)	3	3	17-Jun-24	19-Jun-24	20-Jun-24	22-Jun-24	-220	0%							
Underpass - Structural Works																
Underpass Bays C1 to C8 at Portion H																
Underpass - Bay C1																

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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						
										Feb	Mar	Apr	May	Jun	Jul	Aug
INTS1-1s2	Structure Works for Bay C1 - Roof	22	9	09-Jan-24 A	18-Mar-24	09-Jan-24	18-Mar-24	-68	59.09%	[Gantt bar: Feb to Mar]						
Underpass - Waterproofing and Backfilling																
INTS1-1300	Waterproofing to Structure Works for Bay C1 to C4	12	12	19-Mar-24	05-Apr-24	19-Mar-24	05-Apr-24	-68	0%	[Gantt bar: Mar to Apr]						
INTS1-1300-2	Backfilling to Structure Works for Bay C1 to C4	30	30	06-Apr-24	11-May-24	06-Apr-24	11-May-24	-68	0%	[Gantt bar: Apr to May]						
Underpass - Bays C9 - C15 at Portions H, J and K																
Underpass C9-C11 Structure (assume hanging UUs and concurrent with UUs diversion)																
INTS2-3100	Combined Bay C10 & C11 - Base Slab	20	20	03-Jun-24	26-Jun-24	05-Jun-24	28-Jun-24	-217	0%	[Gantt bar: Jun to Jul]						
INTS2-3100a	Combined Bay C10 & C11 - Wall (Part 1- below existing 1350SW)	11	11	27-Jun-24	10-Jul-24	29-Jun-24	12-Jul-24	-217	0%	[Gantt bar: Jun to Jul]						
INTS2-3150	Bay C9 - Base Slab	20	20	27-Jun-24	20-Jul-24	29-Jun-24	23-Jul-24	-217	0%	[Gantt bar: Jun to Jul]						
Underpass C12-C13 Structure (assume hanging UUs and concurrent with UUs diversion)																
INTS2-3130	Bay C13 - Base Slab	20	20	20-Jun-24	13-Jul-24	24-Jun-24	17-Jul-24	-220	0%	[Gantt bar: Jun to Jul]						
Underpass C14-C15																
INTS2-1090	Structure Works for Bay C15- Wall	27	27	30-May-24	02-Jul-24	03-Jun-24	05-Jul-24	-147	0%	[Gantt bar: Jun to Jul]						
INTS2-1090	Structure Works for Bay C15- Roof	22	22	03-Jul-24	27-Jul-24	06-Jul-24	31-Jul-24	-147	0%	[Gantt bar: Jul to Aug]						
INTS2-1090	Structure Works for Bay C14- Wall	27	27	30-May-24	02-Jul-24	03-Jun-24	05-Jul-24	-147	0%	[Gantt bar: Jun to Jul]						
INTS2-1090	Structure Works for Bay C14- Roof	22	22	03-Jul-24	27-Jul-24	06-Jul-24	31-Jul-24	-147	0%	[Gantt bar: Jul to Aug]						
BS, E&M Works and Remaining Road Works in Underpass and Depressed Roads																
INTS3-101	Lighting, E&M and BS Procurement	200	200	13-Mar-24	13-Nov-24	12-Apr-24	09-Dec-24	-88	0%	[Gantt bar: Mar to Dec]						
Depressed Road B																
B1-B3																
UTR-1000	U trough B (27 nos. socket-H piles, 4 day/pile, 1 workfronts) for B1 to B3, Assume CSD approved - omitted socked H pile	0	0	08-May-23 A	08-Mar-24	08-May-23	08-Mar-24	-93	0%	[Gantt bar: May to Mar]						
UTR-1040	Construction of U-trough B (3 bays, 15m/bay, 30d/bay, 1workfronts)	90	18	21-Nov-23 A	28-Mar-24	21-Nov-23	28-Mar-24	13	80%	[Gantt bar: Nov to Mar]						
B4-B10																
UTR-1050c	ELS for U-trough B (B4 - B10, 7 bays, 2 workfronts)-Part 3 (Sheet pile after UUs diverted)	18	13	24-Nov-23 A	01-Jun-24	24-Nov-23	11-Jun-24	-161	27.78%	[Gantt bar: Nov to Jun]						
UTR-1100	ELS for U-trough B (B4 - B10, 7 bays, 2 workfronts)-Part 4 (Excavation and installation of strut & kingpost)	100	100	03-Jun-24	30-Sep-24	12-Jun-24	09-Oct-24	-161	0%	[Gantt bar: Jun to Oct]						
Remaining Works at Depressed road and Slip Road at both side of Depressed Road B																
Slip Road from Interchange to Fanling Highway																
UTR-3100a	Retaining Wall FW9 (13 bays, 15d/bay, 2 teams)-Part 2	48	48	11-May-24	09-Jul-24	11-May-24	09-Jul-24	-187	0%	[Gantt bar: May to Jul]						
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	17-May-24	29-Jul-24	17-May-24	29-Jul-24	-214	0%	[Gantt bar: May to Jul]						
UTR-3010a	FW-10(~75m, ~10bay, 15d/bay, 2 team) (after 11kV, town gas and other UUs)-Bay 6 & 7	30	30	20-Jun-24	25-Jul-24	20-Jun-24	25-Jul-24	-166	0%	[Gantt bar: Jun to Jul]						
Underground Utilities (UUs) Works																
Drainage Works																
North of Sha Tau Kok Road																
Stormwater 1350mm dia																
INTS1-1130a	1350 stormwater pipe near junction of STK Rd/Ma Sik rd (from existing to SMH 2002c to downstream at Ma Sik Rd, C7)	83	13	18-Apr-23 A	22-Mar-24	18-Apr-23	03-Apr-24	-177	84.34%	[Gantt bar: Apr to Apr]						
INTS1-1130b	Testing of 1350 stormwater pipe at Ma Sik rd	15	15	23-Mar-24	13-Apr-24	05-Apr-24	22-Apr-24	-177	0%	[Gantt bar: Mar to Apr]						
INTS1-1130c	Connection of 1350 stormwater pipe at Ma Sik rd to downstream pipeworks (constructed by other contract C7)	15	15	15-Apr-24	02-May-24	23-Apr-24	10-May-24	-177	0%	[Gantt bar: Apr to May]						
INTS1-1130c1	Downstream stormwater pipework available for connection (constructed by other contract C7)	0	0	08-Mar-24*		08-Mar-24		-134	0%	[Gantt bar: Mar to Mar]						
INTS1-1130c1	Removal of existing 1350SW (near Underpass Bay 11) including existing manhole and temporary support	5	5	03-May-24	08-May-24	11-May-24	17-May-24	-177	0%	[Gantt bar: May to May]						
Stormwater 900mm dia																
INTS1-1130a1	Excavation for 900 stormwater pipe near On Kui St (undemeath CLP132 Ping Che joint bay)	20	20	08-Mar-24	03-Apr-24	08-Mar-24	03-Apr-24	-166	0%	[Gantt bar: Mar to Apr]						
INTS1-1130a2	Install 900 stormwater pipe near On Kui St (undemeath CLP132 Ping Che joint bay)	62	62	05-Apr-24	19-Jun-24	05-Apr-24	19-Jun-24	-166	0%	[Gantt bar: Apr to Jun]						

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										Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Along Sha Tau Road																	
INTS2-1040	UU Works (drainage) - Northbound of Sha Tau Kok Road (after TTA2)-Part 1	60	60	13-Apr-24	25-Jun-24	13-Apr-24	25-Jun-24	-148	0%								
INTS2-1040a	UU Works (drainage)- Northbound of Sha Tau Kok Road (after TTA2)-Part 2	60	60	26-Jun-24	04-Sep-24	26-Jun-24	04-Sep-24	-148	0%								
Rising Main																	
From Sewerage Pumping Station to downstream via Ma Sik Road and On Kui Street																	
INTS1-1120a	Rising Main on Ma Sik Rd (Part 2- Ma Sik Rd Via Sha Tau Kok Rd to downstream at On Kui St)	70	56	11-Feb-23 A	18-May-24	11-Feb-23	18-May-24	-160	20%								
INTS1-1120b	Rising Mains on Ma Sik Rd (Part 3- within Portion N- in/out sewerage pumping station)	70	70	03-Jun-24	24-Aug-24	07-Jun-24	29-Aug-24	-36	0%								
INTS1-1400	Rising Main installation (undemeath CLP 132 Ping Che joint bay) (South of STK Rd)	20	20	20-May-24	12-Jun-24	20-May-24	12-Jun-24	-160	0%								
From Sha Tau Kok Road to downstream via Ma Sik Road																	
INTS1-1120b1	Rising Mains on Ma Sik Rd (From STK Rd to Ma Sik Rd down stream near C7)	70	70	13-Apr-24	08-Jul-24	13-Apr-24	08-Jul-24	-124	0%								
Sewerage Works																	
North of Sha Tau Kok Road																	
INTS1-1140	Remaining sewerage at Ma Sik Rd (Part 1) Ma Sik Road (from rising main of STK Rd to C7) (North of STK Rd)	90	9	08-Dec-22 A	13-Jun-24	08-Dec-22	18-Jun-24	-23	90%								
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	14-Jun-24	09-Aug-24	19-Jun-24	14-Aug-24	-23	0%								
South of Sha Tau Kok Road																	
INTS1-1300a	Sewerage pipe between FMH 5.06 and FMH5.07	14	10	15-Jan-24 A	19-Mar-24	05-Apr-24	20-Apr-24	-135	28.57%								
INTS1-1300a	Construct manhole FMH_FL5.08	27	27	20-Mar-24	24-Apr-24	22-Apr-24	24-May-24	-135	0%								
INTS1-1300a	Sewerage pipe between FMH 5.07 and FMH5.08	14	14	25-Apr-24	11-May-24	25-May-24	11-Jun-24	-135	0%								
INTS1-1300a	Sewerage pipe between FMH 5.08 and FMH5.09	14	14	13-May-24	29-May-24	12-Jun-24	27-Jun-24	-64	0%								
INTS1-1300a3	ELSW for sewerage works from FMH_FL5.09 to FMH5.10	60	12	08-Dec-22 A	21-Mar-24	08-Dec-22	22-Mar-24	-119	80%								
INTS1-1300a	Construct manhole FMH_FL5.09	24	24	22-Mar-24	23-Apr-24	25-Apr-24	24-May-24	-119	0%								
INTS1-1300a	Sewerage pipe between FMH 5.09 and FMH5.10	24	24	24-Apr-24	23-May-24	25-May-24	22-Jun-24	-119	0%								
INTS1-1300a4	Sewerage pipe between FMH 5.10 and FMH1004470 (including TTA and excavation)	30	30	24-May-24	28-Jun-24	24-Jun-24	29-Jul-24	-119	0%								
INTS1-1300a4	Sewerage pipe between FMH 5.10 and FMH1004470 (including TTA and excavation)	30	30	29-Jun-24	03-Aug-24	30-Jul-24	02-Sep-24	-119	0%								
INTS1-1300b3	Sewerage works including ELSW (Portion K), from FMH_FL5.05 to FMH_FL5.06	93	47	08-Dec-22 A	07-May-24	08-Dec-22	10-May-24	-184	49.46%								
INTS1-1300b3	Sewerage works including ELSW (Portion K), from FMH_FL5.05 to FMH_FL5.06 (at temporary run in/out of wholesale market))	12	12	26-Apr-24 A	10-May-24	26-Apr-24	10-May-24	-187	0%								
INTS1-1300c1	Sewerage works including ELSW (STK Road), FMH5.00 and pipe from FMH5.00 to FMH5.01	50	12	14-Jan-23 A	21-Mar-24	14-Jan-23	21-Mar-24	-220	76%								
INTS1-1300c2	Sewerage works including ELSW (STK Road), FMH5.01 and pipe from FMH5.01 to FMH5.02	84	29	29-May-23 A	29-Apr-24	29-May-23	29-Apr-24	-220	65.48%								
Temporary diversion (for ELWS of Underpass C9-C13)																	
INTS1-1300c3	Temporary sewerage diversion from FMH5.05 to new sewerage manhole and then existing manhole (Construction)	28	8	31-Jul-23 A	16-Mar-24	31-Jul-23	16-Mar-24	-187	71.43%								
Waterworks																	
INTS1-1220a	Watermain at STK Rd (Part 2) near Part D of Footbridge F6- 600DI	30	30	08-Mar-24	16-Apr-24	08-Mar-24	16-Apr-24	-174	0%								
INTS1-1220a11	Watermain at STK Rd (Part 2) near Part D of Footbridge F6 and temp connection point - 600MS	21	21	08-Mar-24	05-Apr-24	08-Mar-24	05-Apr-24	-154	0%								
INTS1-1220a21	Watermain at STK Rd (Part 2) near Part D of Footbridge F6 and temp connection point - 300DI	21	21	08-Mar-24	05-Apr-24	08-Mar-24	05-Apr-24	-154	0%								
INTS1-1220b	Watermain (from STK Rd to connection point at On Kui ST) (Part 3) - 600DI and final connection	15	15	17-Apr-24	04-May-24	17-Apr-24	04-May-24	-174	0%								
Temporary connection (for ELSW of Underpass C9-C13)																	
INTS1-1220a1	Temporary connection - 600MS and 300DI (including all testing)	15	15	17-Apr-24	04-May-24	17-Apr-24	04-May-24	-163	0%								
Existing UU Diversion																	

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CLP																				
CLP 132kV and 11kV Cable Works at Bridge and interchange area																				
CLP-1040	ESS by CLP at portion I	0	0		24-Jun-24*		24-Jun-24	-141	0%											
Cable D (Blue) Fanling- Ping Che Circuit 132KV- by CLP (Bridge A3 and Interchange Area)																				
CLP-4000	Diversion of CLP 163m cable D1 (At portion H)(after C5 to C8)	45	45	02-Apr-24	27-May-24	12-Apr-24	05-Jun-24	-118	0%											
CLP-4005	Diversion of CLP 163m cable D1 (At portion H)(outside Underpass)	50	18	08-Dec-22 A	28-Mar-24	08-Dec-22	11-Apr-24	-118	64%											
CLP-4010a	Diversion of CLP 270m cable D2 (At portion I,J,N)-at STK Rd (after TTA 2)	10	10	13-Jun-24	24-Jun-24	13-Jun-24	24-Jun-24	-141	0%											
CLP-4020	Diversion of CLP 180m cable D3 -after TTA 2	75	17	08-Aug-23 A	27-Mar-24	08-Aug-23	27-Mar-24	-72	77.33%											
CLP-4030	Abandon of Cable D (At portion H,I,J,N)	38	38	25-Jun-24	08-Aug-24	25-Jun-24	08-Aug-24	-141	0%											
CLP 11kV Cables works at Interchange area (tentative scheme)																				
CLP-5020	Abandon 11kV cables in F6 & underpass area (portion K/H) (after C5 to C8)	15	15	08-Mar-24	25-Mar-24	08-Mar-24	25-Mar-24	-217	0%											
CLP-5040	Abandon 11kV cables in Underpass and Uthrough B area (portion K)	15	15	08-Mar-24	25-Mar-24	08-Mar-24	25-Mar-24	-121	0%											
CLP-5060	Abandon 11kV cables at STK Road and MS Road (portion J)	15	15	08-Mar-24	25-Mar-24	08-Mar-24	25-Mar-24	-174	0%											
Gasmain (Towngas by Others)																				
TG-1000	IPA gas main laying (Above Underpass C8 and along STK Rd)	45	26	11-Apr-23 A	11-Apr-24	11-Apr-23	11-Apr-24	-214	42.78%											
TG-1000a	IPA gas main laying (after pipe pile underpass C9-C10)	25	25	11-Apr-24	11-May-24	11-Apr-24	11-May-24	-214	0%											
TG-1010a	MP gas main laying-stage 1 (after pipe pile underpass C9-C10)	25	25	08-Mar-24	10-Apr-24	08-Mar-24	10-Apr-24	-188	0%											
TG-1020	MP gas main laying-stage 2 (portion J/K, near Toilet/ RCP)	35	14	10-Jun-23 A	25-Mar-24	10-Jun-23	25-Mar-24	-177	59.29%											
TG-1040	LBG gas main laying-stage 1(Above Underpass C8 and along STK Rd)	47	26	11-Apr-23 A	11-Apr-24	11-Apr-23	11-Apr-24	-214	45%											
TG-1040a	LBG gas main laying-stage 1 (after pipe pile underpass C9-C10)	25	25	11-Apr-24	11-May-24	11-Apr-24	11-May-24	-214	0%											
TG-1050	LBG gas main laying-stage 2 (portion J/K, near Toilet/ RCP)	35	13	10-Jun-23 A	26-Apr-24	10-Jun-23	26-Apr-24	-202	62.43%											
TG-1070	Abandon existing gas main	4	4	11-May-24	17-May-24	11-May-24	17-May-24	-214	0%											
Telecom (by Others)																				
HGC/HKBN/HKBNE SHK/PCCW																				
TL-1010	HGC/HKBN/HKBNE/S/PCCW diversion -stage 2 (after TTA)	22	22	08-Mar-24 A	06-Apr-24	08-Mar-24	06-Apr-24	-158	0%											
TL-1020	HGC/HKBN/HKBNE/S/PCCW diversion -stage 3 (after RW9, near existing market and new playground)	31	25	01-Mar-24 A	10-Apr-24	08-Mar-24	17-Apr-24	-161	19.35%											
TL-1030	HGC/HKBN/HKBNE/S/PCCW diversion -stage 4 (near Portion M)	31	25	01-Mar-24 A	10-Apr-24	08-Mar-24	17-Apr-24	-161	19.35%											
TL-1040	PCCW diversion-stage 5 (near the toilet and RCP)	23	17	01-Mar-24 A	27-Mar-24	08-Mar-24	08-Apr-24	-153	26.09%											
TL-1050	PCCW diversion-stage 6 (near the On Luk Min St playground)	31	25	01-Mar-24 A	10-Apr-24	08-Mar-24	17-Apr-24	-161	19.35%											
TL-1060	Abandon of existing cables of UUs	30	30	11-Apr-24	17-May-24	18-Apr-24	24-May-24	-161	0%											
Towngas/telecom																				
TL-3010	HGC/HKBN/HKBNE/S diversion -stage 2 (after TTA)	49	22	08-Mar-24 A	06-Apr-24	01-Aug-23	25-Mar-24	-158	55.1%											
Stormwater Pumping Station (SWPS)																				
Statutory Submission and Design																				
INTS3-103	FS design (Stormwater pumping station)	268	119	08-May-23 A	02-Aug-24	08-May-23	28-Aug-24	-16	55.6%											
INTS3-103-1	Submersible pump design (Stormwater pumping station)	268	119	08-May-23 A	02-Aug-24	08-May-23	28-Aug-24	-16	55.6%											
INTS3-103-2	Scada design (Stormwater pumping station)	268	119	08-May-23 A	02-Aug-24	08-May-23	28-Aug-24	-16	55.6%											
INTS3-103-4	Lighting and E&M for Stormwater Pumping Station	153	80	08-May-23 A	17-Jun-24	08-May-23	13-Jul-24	-63	47.71%											
INTS3-104	Flood alarm system design (Underpass)	196	47	08-May-23 A	07-May-24	08-May-23	03-Jun-24	-62	76.02%											
INTS3-104-1	Flood alarm system civil requirement (Underpass)	196	47	08-May-23 A	07-May-24	08-May-23	03-Jun-24	-62	76.02%											
INTS3-104-2	FS radio communication system (Underpass)	196	47	08-May-23 A	07-May-24	08-May-23	03-Jun-24	-62	76.02%											
INTS3-104-3	Submission and Approval of DDA to DSD&HyD (Underpass)	152	152	08-May-24	07-Nov-24	04-Jun-24	03-Dec-24	-62	0%											
INTS3-104-4	Lighting system and E&M (underpass)	153	4	08-May-23 A	12-Mar-24	08-May-23	11-Apr-24	-88	97.39%											
INTS3-200	Meeting with HyDs about the design of stormwater pumping station	72	1	06-Sep-23 A	08-Mar-24	06-Sep-23	16-Mar-24	-73	98.61%											
INTS3-2000	Submission and approval of WWO 542	269	269	09-Mar-24	02-Dec-24	17-Mar-24	10-Dec-24	-73	0%											
Stormwater Pumping Station (after TTA Stage 3) (Portion H)																				
INTS3-1091	E&M, BS and ABWF Procurement	210	210	18-Jun-24	28-Feb-25	15-Jul-24	26-Mar-25	-63	0%											
Sewage Pumping Station (SEWPS)																				
Statutory Submission and Design																				
SPS-103	Submission and approval of DDA to DSD	152	82	30-Oct-23 A	28-May-24	30-Oct-23	28-May-24	-53	46.05%											
SPS-106	Mega Link Application	180	140	29-Nov-23 A	25-Jul-24	29-Nov-23	25-Jul-24	-13	22.22%											

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SPS-107	Direct Link Application	180	140	29-Nov-23 A	25-Jul-24	29-Nov-23	25-Jul-24	-13	22.22%							
Sewage Pumping Station in Portion N (After TTA2 Northbound)																
Structural Works																
SPS-1030b	Construct Wall (wet well) up to +3.5	14	14	08-Mar-24	23-Mar-24	13-Mar-24	28-Mar-24	-105	0%							
SPS-1030c	Construct base slab (inlet chamber)	14	3	08-Feb-24 A	11-Mar-24	08-Feb-24	26-Mar-24	-94	78.57%							
SPS-1030d	Construct wall (inlet chamber and wet well) up to +3.5 and removal L2 strut	20	20	25-Mar-24	20-Apr-24	02-Apr-24	25-Apr-24	-105	0%							
SPS-1030d1	Construct Base Slab plus kicker (Valve chamber) and remove L1 strut	14	14	22-Apr-24	08-May-24	26-Apr-24	13-May-24	-105	0%							
SPS-1030d2	Construct Wall (Inlet chamber and wet well) up to +7.35 and removal L1 strut	14	14	22-Apr-24	08-May-24	26-Apr-24	13-May-24	-105	0%							
SPS-1030e	Construct Wall (valve chamber, inlet chamber and wet well) to GL	20	20	09-May-24	01-Jun-24	14-May-24	06-Jun-24	-105	0%							
SPS-1030h	Construct GL slab (valve chamber, inlet chamber and wet well)	20	20	03-Jun-24	26-Jun-24	07-Jun-24	02-Jul-24	-105	0%							
SPS-1030i	Construct wall to roof	14	14	27-Jun-24	13-Jul-24	03-Jul-24	18-Jul-24	-105	0%							
Transformer Room, Switch Room																
Tx and Switch Rooms - Structures																
SPS-1020-01	Construct Base Slab for Tx Room and Switch Room	15	14	06-Mar-24 A	23-Mar-24	08-Mar-24	25-Mar-24	-105	6.67%							
SPS-1020-02	Construct Wall and Columns for Tx Room and Switch Room	21	21	25-Mar-24	22-Apr-24	26-Mar-24	23-Apr-24	-105	0%							
SPS-1020-03	Construct Roof Slab (Erect falsework, scaffolding, formworks, Rebars and Concreting)	26	26	23-Apr-24	24-May-24	24-Apr-24	25-May-24	-105	0%							
SPS-1020-0	Allow time to achieve concrete strength before falseworks removal	21	21	25-May-24	19-Jun-24	27-May-24	20-Jun-24	-105	0%							
SPS-1020-04	Remove Falsework, Formworks, Cleaning + Waterproofing of Roof Slab (removal of FWK 14 days after casting)	14	14	20-Jun-24	06-Jul-24	21-Jun-24	08-Jul-24	-105	0%							
ABWF and E&M Works (Remaining Parts of Sewage PS)																
SPS-103.5	Pump systems and associated E&M Plants (for Sewerage Pumping station) submission	317	37	08-Aug-22 A	24-Apr-24	08-Aug-22	22-May-24	-44	88.33%							
SPS-1035	E&M, BS and ABWF Procurement	227	74	07-Nov-22 A	08-Jun-24	07-Nov-22	06-Jul-24	-81	67.4%							
SPS-1036	E&M works Factory acceptance test	14	14	11-Jun-24	26-Jun-24	08-Jul-24	23-Jul-24	-81	0%							
SPS-1037	E&M works delivery	14	14	27-Jun-24	13-Jul-24	24-Jul-24	08-Aug-24	-81	0%							
Reprovision of On Luk Mun Street Playground (S3)																
Works in Portion K1																
Permanent Access between Wholesale Market and STK Road																
OLMSP-500a	Construction of remaining permanent access & EVA, water main, UUs & direct link (under D204 road)	30	12	08-Dec-22 A	21-Mar-24	08-Dec-22	25-Mar-24	-190	60%							
OLMSP-500b	Dismantle existing water main supply to wholesale market (for subsequent construction of Depressed Rd B - Bay 4-10)	30	30	22-Mar-24	30-Apr-24	26-Mar-24	04-May-24	-135	0%							
Public Area																
OLMSP-600a	Construction of fence wall (Part 2)	7	11	09-Jan-24 A	20-Mar-24	09-Jan-24	11-Mar-24	-227	0%							
OLMSP-610a	Cabling (by CLP)	38	38	21-Mar-24	09-May-24	21-Mar-24	09-May-24	-227	0%							
OLMSP-610a	Energization to Services block, Ancillary block, skateboard park	0	0		09-May-24		09-May-24	-227	0%							
OLMSP-620	Backfilling works	10	10	21-Mar-24	05-Apr-24	27-Mar-24	11-Apr-24	-181	0%							
OLMSP-630	U channel and catchpit	21	21	06-Apr-24	30-Apr-24	12-Apr-24	07-May-24	-181	0%							
OLMSP-640	Staircase	21	21	06-Apr-24	30-Apr-24	12-Apr-24	07-May-24	-181	0%							
OLMSP-650	Granite tiling	21	21	06-Apr-24	30-Apr-24	12-Apr-24	07-May-24	-181	0%							
OLMSP-670	Builder works (Gate, railing, footpath, harbour, signage etc)	21	21	06-Apr-24	30-Apr-24	12-Apr-24	07-May-24	-181	0%							
New Skateboard Park																
Site Formation and UUs																
OLMSP-100	Stormwater drainage and sewerage works within the park	90	18	08-Dec-22 A	28-Mar-24	08-Dec-22	28-Mar-24	-168	80%							
Construction of Skateboard Park (by California)																
OLMSP-1010	Rough grading and drainage (floor drain and its connection pipe to main stormwater drainage system)	25	7	21-Aug-23 A	15-Mar-24	21-Aug-23	13-Mar-24	-239	72%							
OLMSP-101	Install vertical wall	14	10	09-Dec-23 A	27-Mar-24	09-Dec-23	27-Mar-24	-239	28.57%							
OLMSP-101	Install steps	8	8	28-Mar-24	10-Apr-24	28-Mar-24	10-Apr-24	-239	0%							
OLMSP-101	Install transition and banks	18	18	11-Apr-24	02-May-24	11-Apr-24	02-May-24	-239	0%							
OLMSP-101	Install flat works	12	12	03-May-24	17-May-24	03-May-24	17-May-24	-239	0%							
OLMSP-101	All other remaining works (inspection and rectify defect)	6	6	18-May-24	24-May-24	18-May-24	24-May-24	-239	0%							

■ Remaining Work
◆ Milestone
◆ Baseline Milestone
▬ Project Baseline
▬ Critical Remaining Work
◆ Crit Milestone
▬ Actual Work
◆ Actual Milestone

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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								
										Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
OLMSP-101	BS works (lighting installation by Kum Shing)	15	10	14-Dec-23 A	05-Apr-24	14-Dec-23	11-Apr-24	-199	33.33%									
Landscape Area																		
OLMSP-102	Construction of fence wall	33	6	08-Jan-24 A	14-Mar-24	08-Jan-24	16-Mar-24	-234	81.82%									
OLMSP-102	Backfilling for fence wall	12	12	15-Mar-24	28-Mar-24	18-Mar-24	03-Apr-24	-234	0%									
OLMSP-102	Construction of concrete access	27	27	02-Apr-24	04-May-24	05-Apr-24	07-May-24	-233	0%									
OLMSP-102	Irrigation works	27	27	02-Apr-24	04-May-24	05-Apr-24	07-May-24	-195	0%									
OLMSP-1020	Landscaping Softworks with acceptance by clients (S3)	11	11	06-May-24	18-May-24	08-May-24	21-May-24	-195	0%									
OLMSP-102	Establishment works	365	365	19-May-24	18-May-25	22-May-24	21-May-25	-244	0%									
OLMSP-103	Lamp post footing, drawpit and ducting for lamp post	28	28	02-Apr-24	06-May-24	05-Apr-24	08-May-24	-234	0%									
OLMSP-1030	BS works (lighting installation by Kum Shing)	10	10	07-May-24	18-May-24	09-May-24	21-May-24	-234	0%									
Ancillary Block & Service Block and other facility																		
Ancillary Block																		
OLMSP-124	BS work (Lighting, flushing/cleansing pump, plumbing, hose reel)	36	5	11-Oct-23 A	16-Mar-24	11-Oct-23	21-Mar-24	-185	85%									
OLMSP-1240	ABWF(connect to footing, late cast of internal tiles and E&M services, parapet and trench at roof and waterproof work)	12	2	25-Sep-23 A	09-Mar-24	25-Sep-23	13-Mar-24	-185	83.33%									
Service Block																		
OLMSP-123	BS work (Lighting, FS pump, plumbing, AC for switch room and call point)	36	3	28-Oct-23 A	23-Mar-24	28-Oct-23	23-Mar-24	-192	91.67%									
OLMSP-1230	ABWF(connect to footing, late cast of internal tiles and E&M services, parapet and trench at roof and waterproof work)	13	2	28-Oct-23 A	09-Mar-24	28-Oct-23	14-Mar-24	-183	84.62%									
OLMSP-1230	Works required by CLP at Meter room (meter board and lock for the door of meter room)	11	11	08-Mar-24	20-Mar-24	08-Mar-24	20-Mar-24	-227	0%									
Testing & Commissioning																		
OLMSP-1260	T&C (S3)	39	39	25-May-24	11-Jul-24	25-May-24	11-Jul-24	-239	0%									
OLMSP-1260	Submission of Form 501	14	14	08-Mar-24	23-Mar-24	08-Mar-24	23-Mar-24	-192	0%									
OLMSP-1270	FS inspection (S3)	39	39	25-May-24	11-Jul-24	25-May-24	11-Jul-24	-239	0%									
Works in Portion P																		
OLMSP-1050a	Retaining Wall FW10 (around 75m, 10 bays, 15d/bay, 2 team) and other facilities-Part 2	38	38	13-May-24	27-Jun-24	12-Jun-24	26-Jul-24	-135	0%									
OLMSP-1100	Backfilling work to Retaining Wall FW10 & remaining area (between abutment (by Contract C5) and Depressed road B)	60	60	28-Jun-24	06-Sep-24	27-Jul-24	07-Oct-24	-135	0%									
Temporary Skateboard Park Scheme																		
OLMSP-2570	Operation of mini Skateboard Park	140	18	03-Jul-23 A	28-Mar-24	03-Jul-23	17-Apr-24	137	87.14%									
OLMSP-2580	Reinstatement of area of mini Skateboard Park for subsequent works	30	30	02-Apr-24	08-May-24	18-Apr-24	24-May-24	137	0%									
Reprovision of Public Toilet and Refuse Collection Point (S6)																		
PTRCP-100-1	Submission and approval of structural design for RCP and Public Toilet	602	2	11-Apr-23 A	09-Mar-24	11-Apr-23	15-Mar-24	-47	99.67%									
PTRCP-100-11	Submission and approval of E&M design for RCP and Public Toilet (Civil requirement, MVAC, Plumbing, Electrical)	602	2	11-Apr-23 A	09-Mar-24	11-Apr-23	15-Mar-24	-47	99.67%									
PTRCP-100-21	Submission and approval of UU and drainage design for RCP and Public Toilet	602	2	11-Apr-23 A	09-Mar-24	11-Apr-23	15-Mar-24	-47	99.67%									
PTRCP-100-31	Submission and approval of ABWF for RCP and Toilet	602	2	11-Apr-23 A	09-Mar-24	11-Apr-23	15-Mar-24	-47	99.67%									
PTRCP-100-41	Submission and approval of material submission for RCP and Public Toilet	85	0	06-Sep-23 A	08-Mar-24	06-Sep-23	14-Mar-24	-45	100%									
PTRCP-100-61	Submission and Consent for RCP and Toilet (ASD and FEHD)	34	34	11-Mar-24	23-Apr-24	16-Mar-24	29-Apr-24	-47	0%									
PTRCP-100-71	Procurement of builder works and E&M items	79	79	08-Mar-24	15-Jun-24	15-Mar-24	22-Jun-24	-45	0%									
PTRCP-1000	Prefabrication of Mc Unit	45	45	24-Apr-24	18-Jun-24	30-Apr-24	24-Jun-24	-47	0%									
PTRCP-1030	On-site installation (Public Toilet and RCP)	12	12	19-Jun-24	03-Jul-24	25-Jun-24	09-Jul-24	-47	0%									
PTRCP-1040	Waterproofing and other remaining works UUs, drainage	30	30	04-Jul-24	07-Aug-24	10-Jul-24	13-Aug-24	-47	0%									
Retaining Walls (FWs)																		
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	68	18-Oct-23 A	01-Jun-24	18-Oct-23	01-Jun-24	-60	49.63%									
UTRA-2002	Remaining retaining wall FW34	25	25	03-Jun-24	03-Jul-24	03-Jun-24	03-Jul-24	-60	0%									
UTRA-2003	Retaining wall FW29 (22 bays)	135	122	09-Jan-24 A	26-Nov-24	09-Jan-24	27-Nov-24	-60	9.63%									
Noise Barriers (NB) and Semi-Enclosure (SE)																		

■ Remaining Work ◆ Crit Milestone
◇ Milestone ■ Actual Work
◇ Baseline Milestone ◆ Actual Milestone
■ Project Baseline
■ Critical Remaining Work

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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								
										Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
Noise Barrier FLN-SE22 and FLN-SE21 (Portion J)																		
INTS2-2000	Preparation of Design for noise enclosure	51	3	08-May-23 A	11-Mar-24	08-May-23	11-Mar-24	-191	94.12%									
INTS2-2000a	Submission and approval of Design for noise enclosure	54	54	12-Mar-24	20-May-24	12-Mar-24	20-May-24	-191	0%									
INTS2-2000b	Fabrication of noise enclosure material	100	100	21-May-24	16-Sep-24	21-May-24	16-Sep-24	-191	0%									
Noise Barrier FLN-SE22 (Near Sha Tau Kok)																		
INTS2-1030-1	Noise Barrier Footing-Central Median	49	49	13-Apr-24	12-Jun-24	13-Apr-24	12-Jun-24	-186	0%									
INTS2-1030-2	Noise Barrier Footing-Southbound	49	49	13-Jun-24	09-Aug-24	13-Jun-24	09-Aug-24	-186	0%									
Noise Barrier FLN-SE21 (Near Fanling)																		
INTS2-1030a	Noise Barrier Footing-Northbound	53	27	08-Jul-23 A	12-Apr-24	08-Jul-23	12-Apr-24	-186	49.06%									
INTS2-1030a	Noise Barrier Footing-Central Median	49	49	13-Apr-24	12-Jun-24	13-Apr-24	12-Jun-24	-186	0%									
INTS2-1030a	Noise Barrier Footing-Southbound	49	49	13-Jun-24	09-Aug-24	13-Jun-24	09-Aug-24	-186	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	27-Mar-24	30-May-24	27-Mar-24	30-May-24	36	0%									
UT1-1010	U-trough 1 and near by road works and FW-18 (after Bored pile G-06)	50	50	31-May-24	30-Jul-24	31-May-24	30-Jul-24	36	0%									
UT3-1000	U-trough 3 and near by road works (after F4-01 H pile Northbank of Ng Tung River)	70	70	13-Mar-24	08-Jun-24	13-Mar-24	08-Jun-24	-2	0%									
UT3-1010	U-trough 3 and near by road works (after F4-01 H pile Northbank of Ng Tung River)	70	70	11-Jun-24	31-Aug-24	11-Jun-24	31-Aug-24	-2	0%									

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

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Construction Programme of ND/2019/05

Activity ID	Activity Name	Rem Dur	Early Start	Early Finish	March 2024				April 2024				May 2024				June 2024			
					03	10	17	24	31	07	14	21	28	05	12	19	26	02	09	16
3MRP No.49 - (April 2024)																				
Section 4 - Summary																				
Sum-2137	Bridge C2 Segment Erection by LG	38	18-Dec-23 A	18-May-24																
Sum-2138	Bridge C1 Segment Erection by LG	87	20-May-24	30-Aug-24																
Section 5 D2-01 - Summary																				
Sum-2523	Pier D2-01 Cast-in-situ SOP	6	27-Dec-23 A	09-Apr-24																
Sum-2525	Pier D2-01 T-span Stage 1	173	10-Apr-24	05-Nov-24																
Section 5 TWSR West - Summary																				
Sum-2550	HKY FB West - Temp Pedestrian Ramp / Demolish Existing Pedestrian Ramp	75	19-Apr-24	19-Jul-24																
Sum-2620	TWSRW Ch600 to Ch800 Temporary Road Widening	24	29-Jun-24	27-Jul-24																
2.0 - Preliminary Works																				
2.3 - Contractor's Design (PS 1,109)																				
2.3.2 - (b) Irrigation system																				
CDb-110	Irrigation System - Prep/Submit Design	70	01-Nov-23 A	09-Jun-24																
CDb-130	Irrigation System - Design Approval	130	01-Apr-24	08-Aug-24																
2.3.4 - (d) Lighting System																				
CDd-135	Road Lighting System - Manufacturing and Delivery	90	19-Apr-24	17-Jul-24																
CDd-200	Bridge Deck Void Lighting System - Prep/Submit Design	150	01-Nov-23 A	28-Aug-24																
2.3.6 - (f) BBI Public Toilet BS System																				
CDf-130	Public Toilet BS and MVAC System - Design Approval	58	01-May-22 A	28-May-24																
2.3.7 - (g) BBI Public Toilet Bio-treatment Plant																				
CDg-110	Public Toilet Bio-treatment Plant - Prep/Submit Design	58	01-Mar-22 A	28-May-24																
CDg-130	Public Toilet Bio-treatment Plant - Design Approval	64	29-May-24	31-Jul-24																
2.3.8 - (h) Traffic Control and Surveillance System (TCSS)																				
CDh-110	TCSS - Prep/Submit Design	45	17-Nov-23 A	15-May-24																
CDh-130	TCSS - Design Approval	75	07-Feb-24 A	14-Jun-24																
2.3.9 - (i) Traffic Detector System																				
CDi-110	Traffic Detector System - Prep/Submit Design	120	09-Feb-23 A	29-Jul-24																
CDi-130	Traffic Detector System - Design Approval	120	01-May-24	28-Aug-24																
2.3.10 - (j) Crash Cushion System																				
CDj-100	Crash Cushion System - Procurement	48	01-Apr-24	18-May-24																
CDj-110	Crash Cushion System - Prep/Submit Design	48	19-May-24	05-Jul-24																
2.3.11 - (k) Deck Girder Access Facilities																				
CDk-100	Access Facilities - Procurement	120	01-Jan-24 A	29-Jul-24																
4.0 - Bridge Construction																				
4.3 - Segment Fabrication																				
4.3.2 - Off-Site Fabrication																				
- B2-02 T-span																				
OSF-0090	Seg Fab - B2-02L-B2-01 S01 and S02 (2 nos) - (T2-2)	12	09-May-24	22-May-24																
OSF-0093	Seg Fab - B2-02L-B2-01 S03 and S05 (3 nos) - (T2-2)	15	23-May-24	08-Jun-24																
OSF-0095	Seg Fab - B2-02L-B2-03 S01 and S02 (2 nos) - (T1-1)	12	17-Jun-24	29-Jun-24																
OSF-0100	Seg Fab - B2-02M-B2-01 S01 and S02 (2 nos) - (T1-2)	12	15-Jun-24	28-Jun-24																
OSF-0103	Seg Fab - B2-02M-B2-01 S03 and S05 (3 nos) - (T1-2)	15	29-Jun-24	16-Jul-24																
OSF-0105	Seg Fab - B2-02M-B2-03 S01 and S02 (2 nos) - (T2-1)	12	24-Jun-24	06-Jul-24																
OSF-0110	Seg Fab - B2-02R-B2-01 S01 and S02 (2 nos) - (T2-2)	12	11-Jun-24	24-Jun-24																
OSF-0112	Seg Fab - B2-02R-B2-01 S03 and S05 (3 nos) - (T2-2)	15	25-Jun-24	11-Jul-24																
- B2-03 T-span																				
OSF-0180	Seg Fab - B2-03L-B2-02 S01 and S02 (2 nos) - (T1-1)	12	01-Apr-24	13-Apr-24																
OSF-0183	Seg Fab - B2-03L-B2-02 S03 and S06 (4 nos) - (T1-1)	20	15-Apr-24	07-May-24																

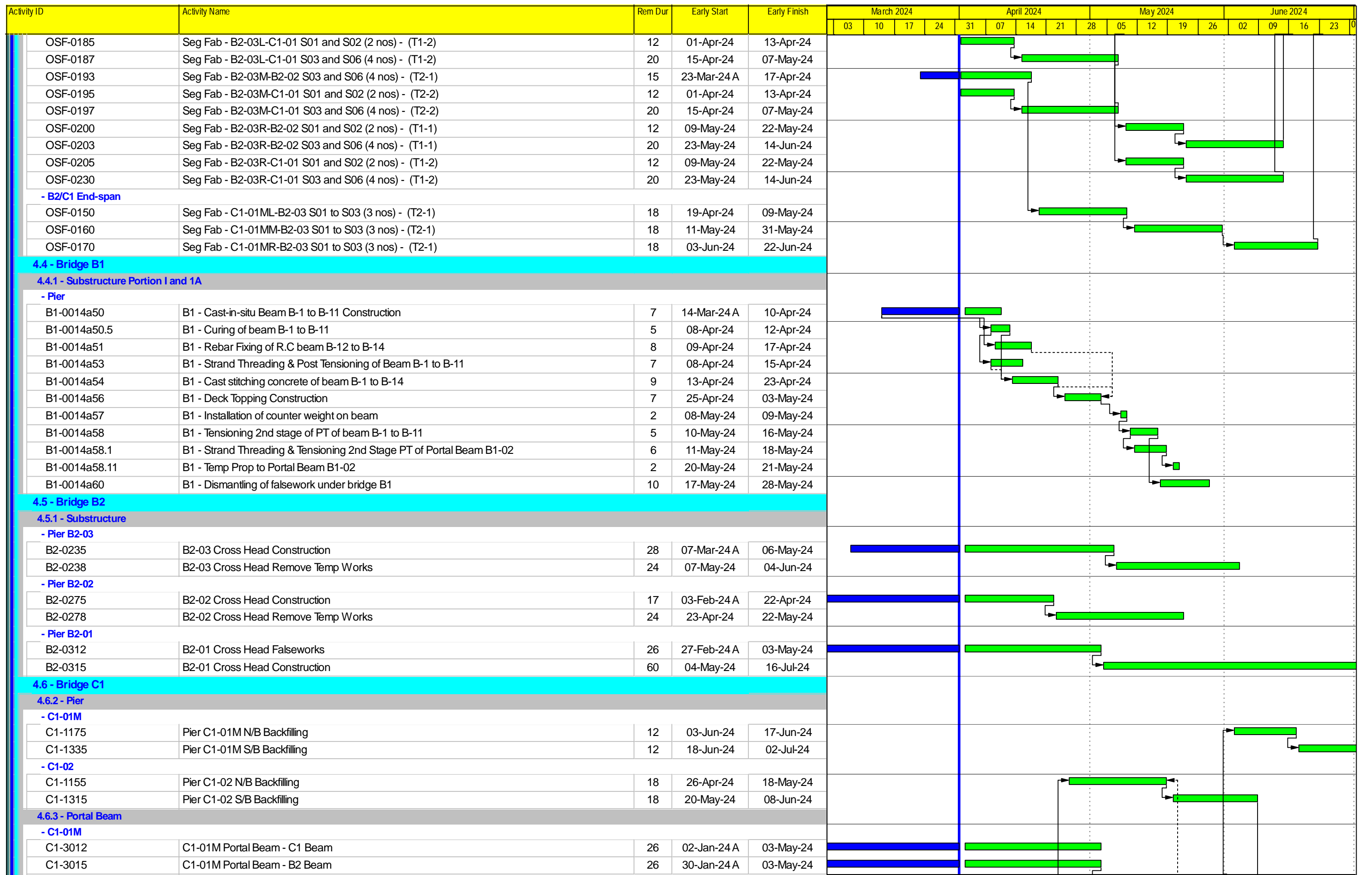


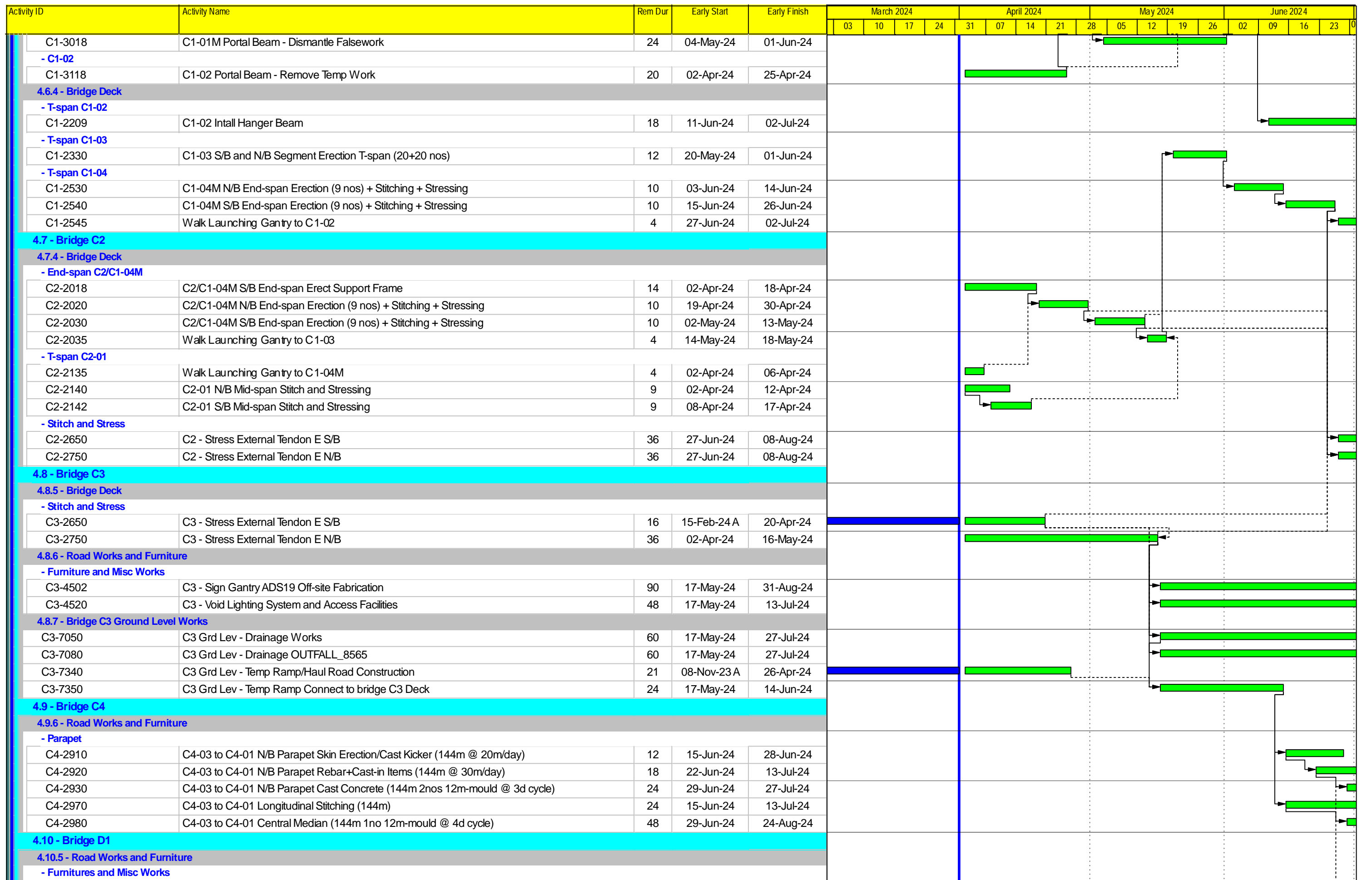
- Actual Work
- Non-critical
- Critical
- ◆ Milestone

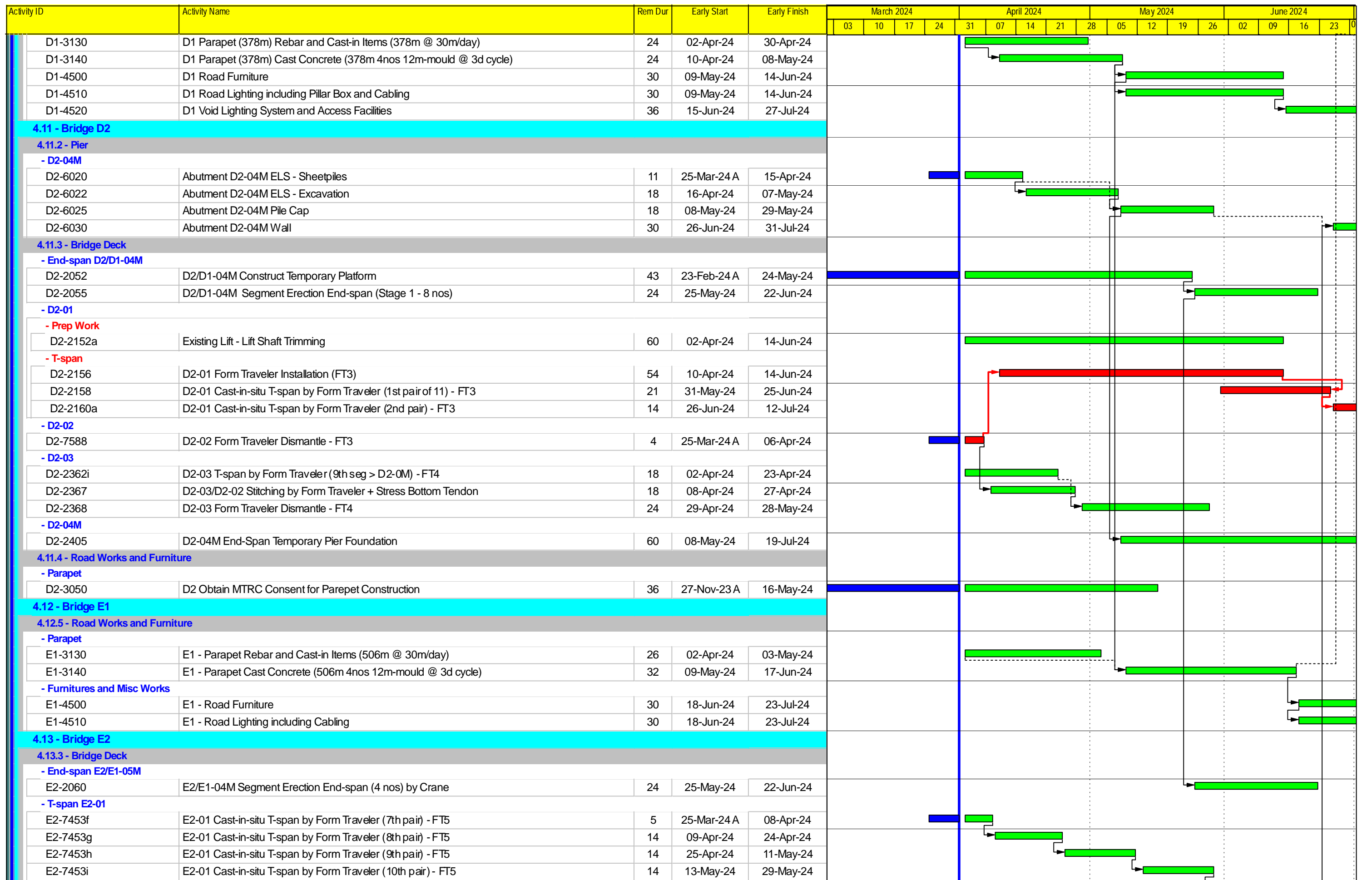
Contract ND/2019/05 - FBES (Shung Him Tong to Kau Lung Hang)
Three-Month Rolling Programme

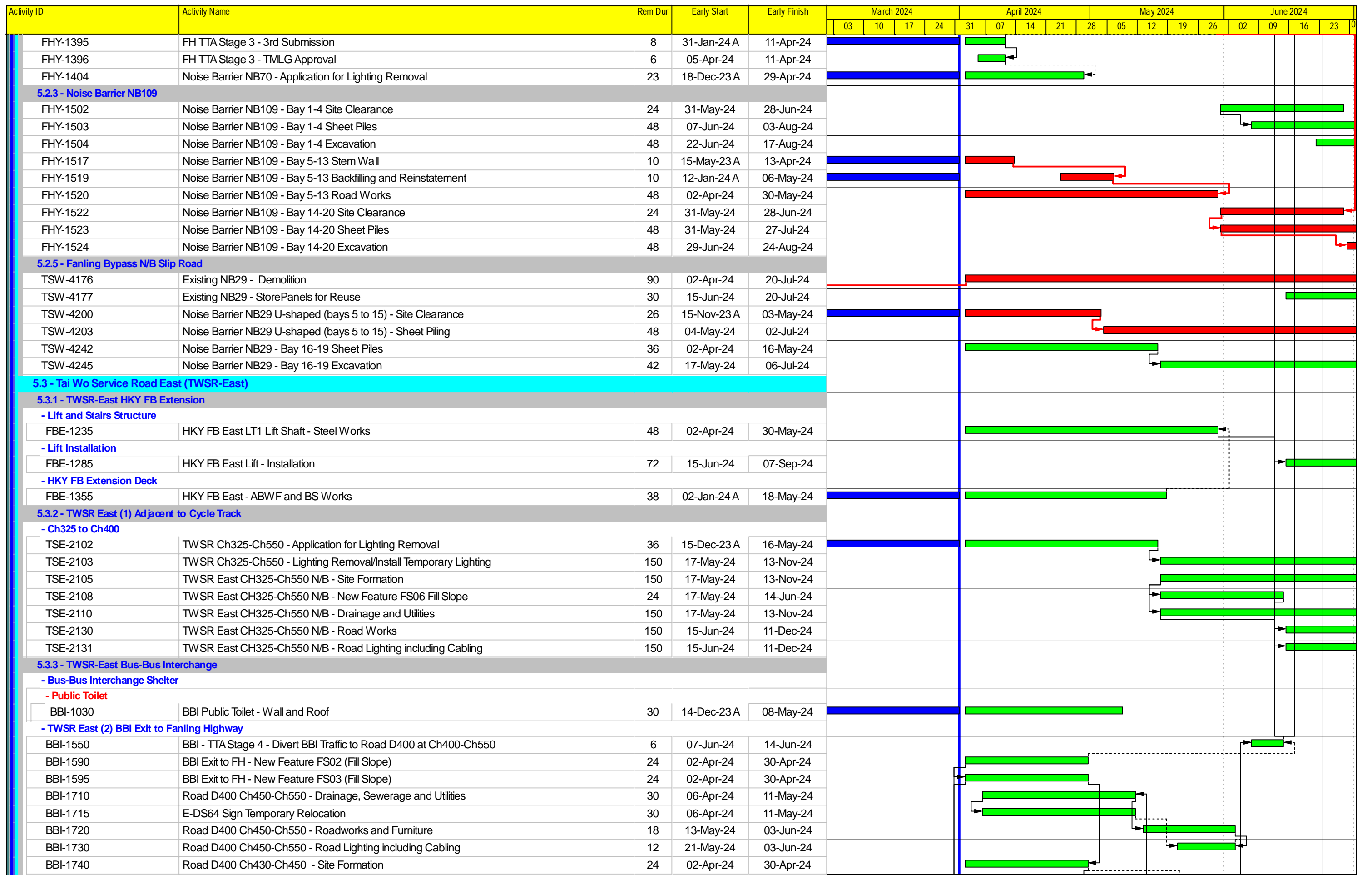
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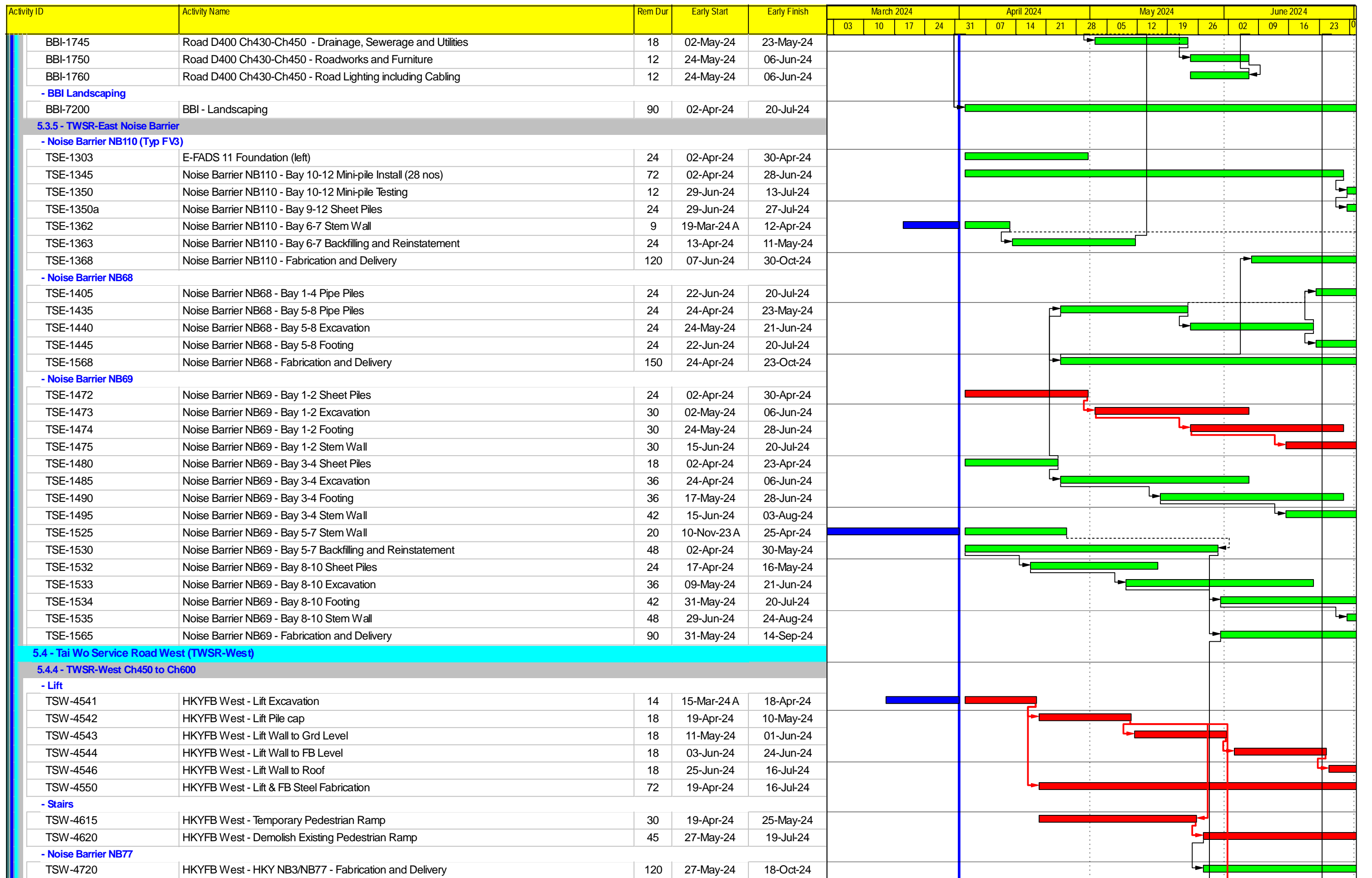


■ Actual Work
■ Non-critical
■ Critical
◆ Milestone

Contract ND/2019/05 - FBES (Shung Him Tong to Kau Lung Hang)
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Activity ID	Activity Name	Rem Dur	Early Start	Early Finish	March 2024				April 2024				May 2024				June 2024			
					03	10	17	24	31	07	14	21	28	05	12	19	26	02	09	16
- Road works																				
TSW-3131	TWSRW Ch450-Ch500 Utility - Gasmain	51	15-Nov-23 A	03-Jun-24																
5.4.5 - TWSRW-West Ch600 to Ch800																				
- Ch600 to Ch800 Slope Works																				
TSW-1150	Slope FS04 - Bottom Slope Berm Drainage	1	02-Jan-24 A	02-Apr-24																
TSW-1155	Existing Feature 3SW-C/C360 Soil Nail	120	03-Apr-24	26-Aug-24																
TSW-1160	Existing Feature 3SW-C/C430 Soil Nail	120	03-Apr-24	26-Aug-24																
TSW-1162	TWSRW Ch600-Ch720 N/B Temporary Road Widening	24	29-Jun-24	27-Jul-24																
5.4.6 - Existing Utility Diversion																				
- TWSRW Divert Existing Utilities																				
TSW-8810	TWSRW Gasmain Diversion	18	04-Jun-24	25-Jun-24																
TSW-8850	TWSRW Telecom - Cable Diversion	133	07-Dec-23 A	09-Sep-24																
5.4.7 - TWSRW Noise Barrier																				
TSW-1268	NB30 - Fabrication and Delivery	180	31-May-24	04-Jan-25																
TSW-7385	NB30 Panels - Evaluate to Reuse	48	31-May-24	27-Jul-24																
5.5 - Jockey Club Road																				
5.5.3 - TTA Stage 2																				
JCR-2195	THV Junction N/B - Box Culvert, Ret Wall FW51 and FS25	26	08-Nov-23 A	03-May-24																
JCR-2200	THV Junction N/B - Utility Install/Traffic Light Civil Provision	24	04-May-24	01-Jun-24																
JCR-2210	THV Junction N/B - Road/Footpath Paving and Road Marking	18	03-Jun-24	24-Jun-24																
JCR-2215	THV Junction N/B - Road Lighting	12	11-Jun-24	24-Jun-24																
JCR-2585	JCR Traffic Island - Utility Install/Traffic Signal Civil Provision	15	15-Nov-23 A	19-Apr-24																
JCR-2590	JCR Traffic Island - Kerb/Central Barrier/Paving	36	02-Apr-24	16-May-24																
JCR-2695	JCR Traffic Island - S/B Cross Road Traffic Signal Ducts (TTA Stage 2A)	18	02-Apr-24	23-Apr-24																
JCR-2710	JCR N/B - DN 150 Expose Pipe - PMI 258	14	02-Oct-23 A	18-Apr-24																
JCR-2715	JCR N/B - Slope F63 Top Soil and Slope Drainage (TTA Stage 2C)	60	24-Apr-24	06-Jul-24																
5.5.4 - TTA Stage 3																				
JCR-2100	THV Traffic Island - TTA Stage 3 Implementation	6	25-Jun-24	02-Jul-24																
6.0 - TCSS Works																				
6.2 - Key Date 3A and Section 9A																				
TCS-300	Section 9A TCSS - Submit /Approve Interface Management Plan	90	02-Apr-24	20-Jul-24																
TCS-331	Section 9A TCSS - Ducts/Drawpit at BBI Entry	10	14-Aug-23 A	13-Apr-24																
TCS-332	Section 9A TCSS - Ducts/Drawpit at Road D400 Ch175 to Ch275	42	15-Apr-24	04-Jun-24																
TCS-333	Section 9A TCSS - Ducts/Drawpit at Road D400 Ch275 to Ch500	60	05-Jun-24	15-Aug-24																
6.3 - Key Date 3B and Section 9B																				
TCS-370	Traffic Defector System - Submit /Approve Interface Management Plan	120	02-Apr-24	24-Aug-24																
6.4 - Section 9C																				
TCS-440	Section 9C TCSS - Submit /Approve Interface MP	120	02-Apr-24	24-Aug-24																
TCS-451	Section 9C TCSS - Ducts/Drawpit at BBI Entry	16	01-Nov-23 A	20-Apr-24																
TCS-452	Section 9C TCSS - Ducts/Drawpit at Road D400 Ch175 to Ch275	42	22-Apr-24	12-Jun-24																
TCS-453	Section 9C TCSS - Ducts/Drawpit at Road D400 Ch275 to Ch500	60	13-Jun-24	22-Aug-24																
7.0 - Miscellaneous Works																				
MIS-100	Preservation and Protection of Trees	105	28-Oct-20 A	07-Aug-24																

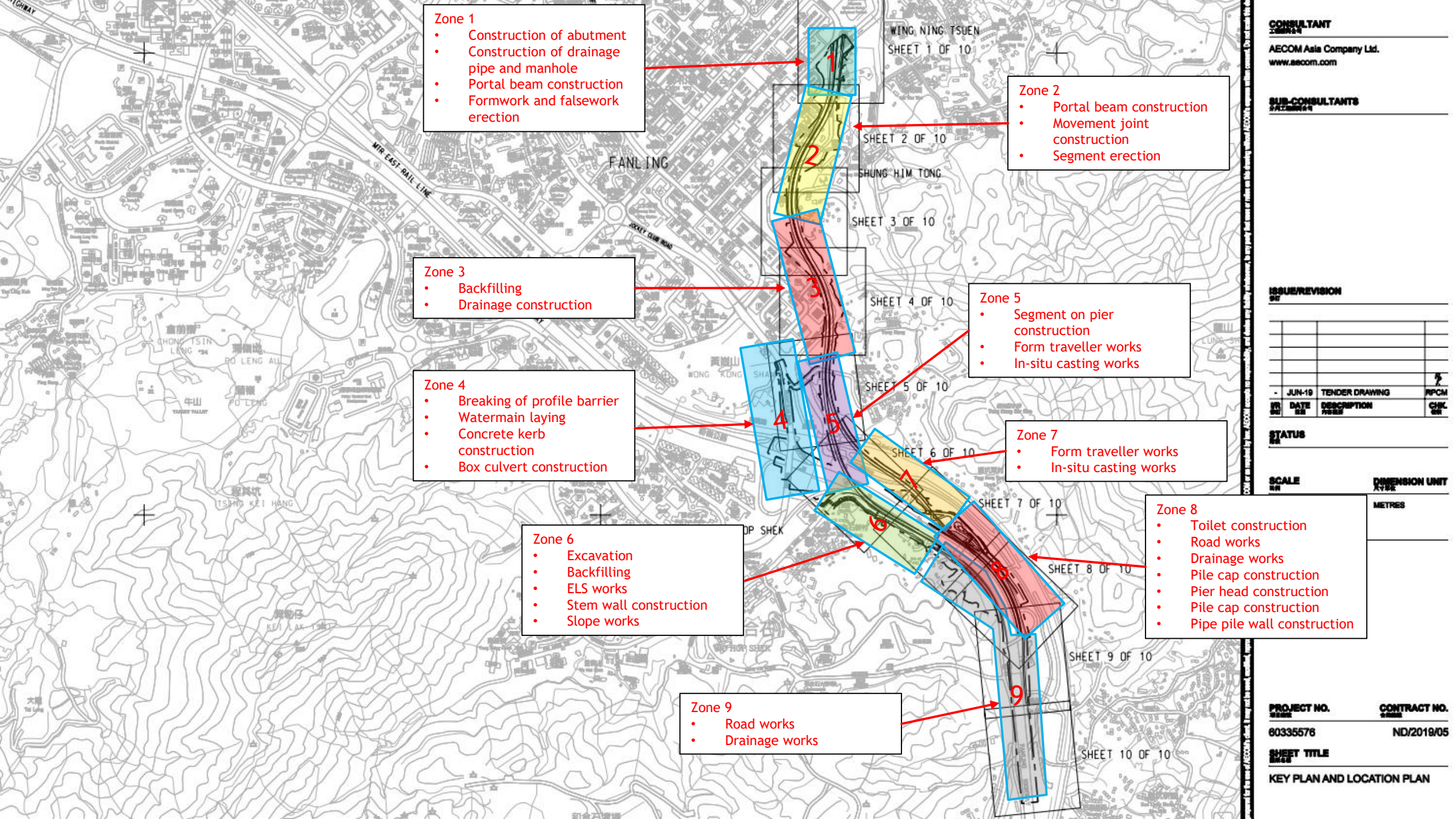


■ Actual Work
■ Non-critical
■ Critical
◆ Milestone

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

Project ID : 3MRP
 No.49
 Layout : 3MRP
 Date : 05-Apr-24 / Page 8 of 8

3MRP			
Date	Revision	Check...	Approved
31-Mar-24	Draft		



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
- Segment erection

Zone 3

- Backfilling
- Drainage construction

Zone 5

- Segment on pier construction
- Form traveller works
- In-situ casting works

Zone 4

- Breaking of profile barrier
- Watermain laying
- Concrete kerb construction
- Box culvert construction

Zone 7

- Form traveller works
- In-situ casting works

Zone 6

- Excavation
- Backfilling
- ELS works
- Stem wall construction
- Slope works

Zone 8

- Toilet construction
- Road works
- Drainage works
- Pile cap construction
- Pier head construction
- Pile cap construction
- Pipe pile wall construction

Zone 9

- Road works
- Drainage works

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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	Mar	Apr	May	Jun	Jul
Fanling North New Development Area, Phase 1: Site Formation and Infrastructure Works										
Key Dates and Sectional Completion of the Works										
Contractual Sectional Completion of the Works		0.0	20-Mar-24	20-Mar-24	0.0					
KDS1200	Section 10- Completion of site formation and infrastructure works in Works Area E2	0.0		20-Mar-24*	0.0					
Planned Sectional Completion of the Works		0.0	15-Apr-24	15-Apr-24	-26.0					
KDS1230	Planned completion of the Section 10 of the Works	0.0		15-Apr-24	-26.0					
Preliminaries, Contractor's Design, Method Statement Submission and Approval										
General Submission		90.0	15-Nov-23 A	27-Mar-24	0.0					
PGS1260	Preparation and approval of TTA for Waler Main&Road Works along MSK Road/Wo Tai Street	90.0	15-Nov-23 A	27-Mar-24	0.0					
Tendering and Procurement for Major Subcontractor		135.0	25-Feb-24 A	08-Jul-24	8.0					
Procurement for NB Post and Panel		135.0	25-Feb-24 A	08-Jul-24	8.0					
TDS1180-2	Fabrication and Delivery to site - NB63 post and panel (Bay18 - Bay21)	36.0	25-Feb-24 A	12-Apr-24	-12.0					
TDS1180-4	Fabrication and Delivery to site - NB63 post and panel (Bay13 - Bay17)	36.0	06-Apr-24	11-May-24	-12.0					
TDS1180-5	Fabrication and Delivery to site - NB63 post and panel (Bay7 - Bay12)	36.0	05-May-24	09-Jun-24	3.0					
TDS1180-6	Fabrication and Delivery to site - NB63 post and panel (Bay1 - Bay6)	36.0	03-Jun-24	08-Jul-24	8.0					
Section 1- Site Formation and Infrastructure Works in Area A										
Site Formation (Portion I- Area A 11042m2)		58.0	08-Mar-24	21-May-24	149.0					
Remaining Site Formation Works after trees felled in FL-G14.1 & FL-G14.2		58.0	08-Mar-24	21-May-24	149.0					
S1-SF1185	Removal of temporary works, haul road and temporary accesses (Access for HD contractor, after Road L1 - P600 completed)	30.0	08-Mar-24	16-Apr-24	49.0					
S1-SF1190	Construction of open channel (45m) (CT71)	28.0	17-Apr-24	21-May-24	149.0					
Site Formation (Portion II- Area A 21900m2)		324.0	16-May-23 A	23-Jul-24	97.0					
Site Formation Works in South Part of Portion II		324.0	16-May-23 A	23-Jul-24	97.0					
S1-SF1417	Site formation works part 3 (12577m3) and Removal of temporary works, haul road and temporary accesses	78.0	16-May-23 A	10-May-24	35.0					
S1-SF1420	Construction of open channel (180m)	60.0	11-May-24	23-Jul-24	97.0					
Site Formation (Portion IV- Area A 3800m2)		30.0	08-Mar-24	16-Apr-24	135.0					
S1-SF1870	Site formation works (2391m3) (after site formation in Area D)	30.0	08-Mar-24	16-Apr-24	135.0					
Slope Works		59.0	17-Apr-24	27-Jun-24	118.0					
S1-SW1010	Forming new slope feature FS06 and construction of slope drainage	42.0	17-Apr-24	06-Jun-24	135.0					
S1-SW1040	Forming new slope feature FS11 (after completion of the outfall for the box culvert)	21.0	03-Jun-24	27-Jun-24	53.0					
Box Culvert BC3 and Outfall 10		80.0	20-Feb-24 A	01-Jun-24	53.0					
Box Culvert BC3 (CH264 to CH282.799) and Outfall 10		80.0	20-Feb-24 A	01-Jun-24	53.0					
Revised Outfall		24.0	08-Mar-24	09-Apr-24	97.0					
S1-BC1340	Outfall - Reinstate over-cut portions of Outfall	24.0	08-Mar-24	09-Apr-24	97.0					
Bay 22 to 24		80.0	20-Feb-24 A	01-Jun-24	0.0					
S1-BC1110	Construction of wall and top slab for box culvert Bay 22	10.0	20-Mar-24 A	28-Mar-24	0.0					
S1-BC1120-2	Backfilling to Bay 22-24	20.0	02-Apr-24	25-Apr-24	0.0					
S1-BC1210-1	Construction of wall and top slab for box culvert Bay 23	10.0	07-Mar-24 A	18-Mar-24	0.0					
S1-BC1240	Construction of wall and top slab for box culvert Bay 24	10.0	23-Feb-24 A	06-Mar-24 A						
S1-BC1250	Backfilling and reinstatement of existing slope before construction of new slope feature FS11 (2310m3)	30.0	26-Apr-24	01-Jun-24	0.0					
S1-BC1260	Installation of miscellaneous works inside inspection chamber	30.0	01-Mar-24 A	28-Mar-24	0.0					
S1-BC1350	Cleaning of silt and clay for box culvert	30.0	20-Feb-24 A	28-Mar-24	0.0					
S1-BC1360	Proposed Key Date 2 under PMI 207	0.0		28-Mar-24*	0.0					
Drainage, Sewerage, Waterworks and Road Works										
Along Ma Sik Road		67.0	28-Mar-24	21-Jun-24	0.0					
TTA - Closure of Ma Sik Road Eastbound Slow Lane between Wo Tai Street and Site Boundary		37.0	28-Mar-24	16-May-24	0.0					
S1-CS1240	Implement TTA	1.0	28-Mar-24	28-Mar-24	0.0					
S1-CS1260	UU detection and trial pit	10.0	02-Apr-24	13-Apr-24	0.0					
S1-CS1270	Utility works by others	7.0	15-Apr-24	22-Apr-24	0.0					
S1-CS1293	Laying of fresh water mains (10m) (In dry season)	7.0	15-Apr-24	22-Apr-24	0.0					
S1-CS1295	Laying of flush water mains (10m) (In dry season)	7.0	15-Apr-24	22-Apr-24	0.0					
S1-CS1300	Road pavement and road marking(including loop detectors D5&D6)	12.0	23-Apr-24	07-May-24	0.0					
S1-CS1305	Street furniture, road lighting and signage installation	7.0	08-May-24	16-May-24	0.0					
TTA - Closure of Ma Sik Road Eastbound Fast Lane for water main works		30.0	17-May-24	21-Jun-24	0.0					
S1-CS1680	Implement TTA	1.0	17-May-24	17-May-24	0.0					
S1-CS1690	UU detection and trial pit	10.0	18-May-24	29-May-24	0.0					
S1-CS1710	Utility works by others	7.0	30-May-24	06-Jun-24	0.0					
S1-CS1740	Laying of fresh water mains (10m)	7.0	30-May-24	06-Jun-24	0.0					
S1-CS1750	Laying of flush water mains (10m)	7.0	30-May-24	06-Jun-24	0.0					
S1-CS1760	Road pavement and road marking(including loop detectors D5&D6)	12.0	07-Jun-24	21-Jun-24	0.0					
Modification of Signalized Junction at Ma Sik Road and Wo Tai Street		140.0	18-Aug-23 A	17-Apr-24	176.0					
S1-CS2180	Construction of Footpath near Wing Fai Centre(Including draw pit)	21.0	08-Sep-23 A	13-Mar-24	0.0					
S1-CS2190	Construction of Footpath near Belair Monte(Including draw pit)	21.0	18-Aug-23 A	13-Mar-24	0.0					
S1-CS2220	Construction of Traffic Island at MSR (Eastern, Including draw pit)	14.0	07-Oct-23 A	19-Mar-24	0.0					
S1-CS2230	Construction of Traffic Island at MSR (Western, Including draw pit)	14.0	10-Oct-23 A	27-Mar-24	0.0					
S1-CS2285	Installation of traffic light for MSR and WTS	14.0	28-Mar-24	17-Apr-24	176.0					
Along Proposed Cycletrack and Footpath		281.0	09-Jan-23 A	27-Aug-24	58.0					
Works in Portion I		142.0	09-Dec-23 A	26-Jul-24	70.0					
Works in Portion I CT71		45.0	03-Jun-24	26-Jul-24	0.0					
S5-RD1600	Utility service by others	45.0	03-Jun-24	26-Jul-24	0.0					
Works in Portion I CT73 (Ch400 to Ch649)		92.0	05-Mar-24 A	02-Jul-24	11.0					
S1-CS1472	Irrigation system (CT73 Ch400 to Ch649 total 249m)	45.0	08-Mar-24	04-May-24	-17.0					
S1-CS1475	U-Channel along the Cycletrack(CT73 Ch400 to Ch649 total 249m)	25.0	02-May-24	31-May-24	11.0					
S1-CS1480	Construction of cycle track and footpath (249m)	40.0	14-May-24	02-Jul-24	11.0					
S5-RD1610	Utility service by others	45.0	05-Mar-24 A	30-Apr-24	11.0					
Works in Portion I CT74		112.0	08-Feb-24 A	28-Jun-24	28.0					
S1-CS1489	U-Channel along the Cycletrack (CT74 Ch100 to Ch281 total 181m)	20.0	08-May-24	31-May-24	51.0					

- Actual Work
- Remaining Work
- Critical Remaining Work
- ◆ Milestone



Three Month Rolling Programme (Data Date : 08-Mar-24)

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Date	Revision	Checked	Approved
08-Mar-24	RDWPD	ST	CLX

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				
						Mar	Apr	May	Jun	Jul
S1-CS1491	Irrigation system (CT74 Ch100 to Ch281 total 181m)	45.0	06-May-24	28-Jun-24	23.0					
S1-CS1493	Laying of fresh water mains (CT74 Ch100 to Ch281 total 181m)	80.0	08-Feb-24 A	25-Apr-24	73.0					
S1-CS1495	Laying of flush water mains (CT74 Ch100 to Ch281 total 181m)	80.0	08-Feb-24 A	25-Apr-24	35.0					
S5-RD1620	Utility service by others	30.0	26-Apr-24	01-Jun-24	35.0					
Works in Portion I CT73 (Ch100 to Ch400)						120.0	09-Dec-23 A	16-Jul-24	79.0	
S1-CS1477	Drainage work (MNH_FL5.34 to MNH_FL5.31 232m) (Access for HD contractor, after Road L1 - P600 completed) - remaining 76m	29.0	08-Mar-24	15-Apr-24	82.0					
S1-CS1477-2	Drainage work (MNH_FL5.34 to MNH_FL5.31 232m) (Access for HD contractor, after Road L1 - P600 completed) - remaining 76m	29.0	17-Apr-24	22-May-24	49.0					
S1-CS1479	U-Channel along the Cycletrack (CT73 Ch100 to Ch400 total 300m)	30.0	01-Jun-24	08-Jul-24	86.0					
S1-CS1483	Laying of fresh water mains (CT73 Ch100 to Ch400 total 300m)	85.0	09-Dec-23 A	12-Jul-24	52.0					
S1-CS1485	Laying of flush water mains (CT73 Ch100 to Ch400 total 300m)	85.0	09-Dec-23 A	12-Jul-24	52.0					
S5-RD1630	Utility service by others	45.0	23-May-24	16-Jul-24	49.0					
Works in Portion II CT71 (Ch100 to Ch369.376)						269.0	09-Jan-23 A	27-Aug-24	18.0	
S1-CS1520	Drainage work (MNH_FL5.29 to MNH_FL5.26 229m) After box culvert back filling Bay1 to Bay22	85.0	09-Jan-23 A	13-Apr-24	73.0					
S1-CS1523	Irrigation system work (Utility service by others) (269m)	85.0	18-May-24	27-Aug-24	18.0					
S1-CS1530	Laying of fresh water mains (269m)	85.0	10-Jul-23 A	11-Jun-24	83.0					
S1-CS1540	Laying of flush water mains (269m)	85.0	10-Jul-23 A	11-Jun-24	38.0					
S1-CS1550	U-Channel along the Cycletrack (269m)	27.0	18-May-24	19-Jun-24	76.0					
Works in Portion III CT76 (Ch100 to Ch298.277)						250.0	13-Nov-23 A	11-Jul-24	98.0	
Sewerage						189.0	13-Nov-23 A	29-Jun-24	0.0	
S1-CS1820-3	CE149 - Sewerage DN600 - Construction of permanent manhole FMH_FL1.19	48.0	13-Nov-23 A	05-Apr-24	0.0					
S1-CS1820-4	CE149 - Sewerage DN600 - Removal of sheetpiles and backfilling at FMH_FL1.19	12.0	06-Apr-24	19-Apr-24	18.0					
S1-CS1820-5	CE149 - Sewerage DN600 - Construction of permanent manhole FMH_FL1.19A	48.0	02-Dec-23 A	24-May-24	0.0					
S1-CS1820-6	CE149 - Sewerage DN600 - Removal of sheetpiles and backfilling at FMH_FL1.19A	12.0	25-May-24	07-Jun-24	0.0					
S1-CS2000	CE149 - Sewerage NS400 - Excavation of trench for NS400 twin rising mains	18.0	08-Jun-24	29-Jun-24	0.0					
Remaining Works (next to Portion V - approx 64m)						39.0	20-Apr-24	06-Jun-24	126.0	
S1-CS1580-1	Irrigation system (64m)	22.0	20-Apr-24	17-May-24	18.0					
S1-CS1590-1	Laying of fresh water mains (64m)	22.0	20-Apr-24	17-May-24	36.0					
S1-CS1600-1	Laying of flush water mains (64m)	22.0	20-Apr-24	17-May-24	36.0					
S1-CS1610-1	U-Channel along the Cycletrack (64m)	22.0	20-Apr-24	17-May-24	36.0					
S1-CS1620-1	Construction of cycle track and footpath (64m)	12.0	18-May-24	31-May-24	36.0					
S1-CS1650-1	Installation of road lighting	5.0	01-Jun-24	06-Jun-24	126.0					
S5-RD1660	Utility service by others	22.0	20-Apr-24	17-May-24	36.0					
Remaining Works (after KD1)						169.0	13-Nov-23 A	11-Jul-24	51.0	
S1-CS1576-2	Installation of sheet piles	14.0	13-Nov-23 A	11-Mar-24	0.0					
S1-CS1576-3	Excavation and installation of lateral support	14.0	15-Jan-24 A	14-Mar-24	0.0					
S1-CS1576-4	Laying of DN 1500 pipe(SMH_FL2007 to SMH_FL2008)	14.0	20-Feb-24 A	21-Mar-24	0.0					
S1-CS1576-5	CCTV inspection, air test and water test	6.0	22-Mar-24	28-Mar-24	0.0					
S1-CS1576-7	Removal of sheet piles and backfilling for drainage pipe	10.0	02-Apr-24	13-Apr-24	78.0					
S1-CS1580-2	Irrigation system(134m)	45.0	18-May-24	11-Jul-24	51.0					
S1-CS1590-2	Laying of fresh water mains (134m)	45.0	27-Dec-23 A	15-Jun-24	72.0					
S1-CS1600-2	Laying of flush water mains (134m)	45.0	27-Dec-23 A	15-Jun-24	72.0					
S1-CS1610-2	U-Channel along the Cycletrack (134m)	45.0	18-May-24	11-Jul-24	51.0					
S5-RD1670	Utility service by others	45.0	18-May-24	11-Jul-24	51.0					
Section 4- Site Formation and Infrastructure Works in Area D						70.0	08-Mar-24	04-Jun-24	137.0	
S4-SF1125	Construction of open channel (257m)	70.0	08-Mar-24	04-Jun-24	137.0					
S4-SF1140	Erection of chain link fence (382m)	50.0	08-Mar-24	10-May-24	157.0					
Section 5- Site Formation and Infrastructure Works in Area E and Remainder of the Works						362.0	13-Dec-22 A	25-Jul-24	27.0	
Road L1						324.0	23-Feb-23 A	25-Jul-24	27.0	
Road L1 in Portion V (P600 CH100 to CH194)						97.0	30-Dec-23 A	20-May-24	-22.0	
S5-RD1360	Construction of irrigation system (184m)	21.0	22-Mar-24	19-Apr-24	-22.0					
S5-RD1390	Construction of planters	24.0	20-Apr-24	20-May-24	-22.0					
S5-RD1400	Construction of cycle track and footpath	24.0	30-Dec-23 A	21-Mar-24	-22.0					
Road L1 in Portion IV (P600 CH194 to CH393, P700 CH100 to CH175)						324.0	23-Feb-23 A	25-Jul-24	27.0	
S5-RD1185	Construction of irrigation system (489m)	28.0	08-Mar-24	13-Apr-24	28.0					
S5-RD1200	Laying of fresh water mains (489m)	70.0	23-Feb-23 A	13-Mar-24	51.0					
S5-RD1210	Laying of flush water mains (489m)	70.0	23-Feb-23 A	13-Mar-24	51.0					
S5-RD1240	Construction of cycle track and footpath	38.0	16-Apr-24	31-May-24	27.0					
S5-RD1260	Street furniture, road marking and road lighting	45.0	01-Jun-24	25-Jul-24	27.0					
Road L2						352.0	13-Dec-22 A	13-Jul-24	13.0	
S5-RD1500	Construction of drainage works (13nos manholes 320m)	80.0	13-Dec-22 A	08-Mar-24	13.0					
S5-RD1505	Construction of irrigation system (298m)	28.0	15-Apr-24	18-May-24	31.0					
S5-RD1535	Construction of planters	30.0	08-Mar-24	16-Apr-24	29.0					
S5-RD1540	Construction of road pavement works	56.0	07-May-24	13-Jul-24	13.0					
S5-RD1650	Utility service by others	45.0	09-Mar-24	06-May-24	13.0					
Noise Barrier NB62						92.0	08-Mar-24	02-Jul-24	47.0	
S5-NB1080	Installation of noise barrier steel posts	14.0	17-Apr-24	03-May-24	-10.0					
S5-NB1080-1	Installation of noise barrier steel posts and panel for mock up	30.0	08-Mar-24	16-Apr-24	-10.0					
S5-NB1090	Installation of noise barrier panels	28.0	04-May-24	06-Jun-24	-3.0					
S5-NB1095	Removal of the instrumentation and monitoring points	20.0	07-Jun-24	02-Jul-24	47.0					
Noise Barrier NB63						223.0	09-Aug-23 A	06-Jul-24	-13.0	
Noise Barrier NB63 (Bay 18 to Bay 21)						192.0	09-Aug-23 A	29-May-24	-10.0	
S1-NB1275	Excavation and construction of base slab (Bay 18 - Bay 21)	42.0	09-Aug-23 A	13-Mar-24	-4.0					
S1-NB1280	Construction of wall stem (Bay 18 - Bay 21)	18.0	14-Mar-24	08-Apr-24	-4.0					
S1-NB1300	Installation of noise barrier steel posts (Bay 18 - Bay 21)	7.0	04-May-24	11-May-24	-10.0					
S1-NB1305	Installation of noise barrier panels (Bay 18 - Bay 21)	14.0	13-May-24	29-May-24	-10.0					
Noise Barrier NB63 (Bay 13 to Bay 17)						191.0	08-Nov-23 A	03-Jul-24	-10.0	

- Actual Work
- Remaining Work
- Critical Remaining Work
- ◆ Milestone



Three Month Rolling Programme (Data Date : 08-Mar-24)

Page : 2 of 3

Date	Revision	Checked	Approved
08-Mar-24	RDWPD	ST	CLX






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				
						Mar	Apr	May	Jun	Jul
S1-NB1200	Installation of sheet piles (Bay 13 - Bay 17)	50.0	08-Nov-23 A	09-Mar-24	-18.0	Installation of sheet piles (Bay 13 - Bay 17)				
S1-NB1210	Excavation and installation of lateral support (Bay13 - Bay17)	50.0	13-Nov-23 A	15-Mar-24	-3.0	Excavation and installation of lateral support (Bay13 - Bay17)				
S1-NB1220	Construction of base slab (Bay 13 - Bay 17)	20.0	09-Jan-24 A	27-Mar-24	2.0	Construction of base slab (Bay 13 - Bay 17)				
S1-NB1225	Construction of wall stem (Bay 13 - Bay 17)	22.0	09-Apr-24	04-May-24	-4.0	Construction of wall stem (Bay 13 - Bay 17)				
S1-NB1235	Installation of noise barrier steel posts (Bay 13 - Bay 17)	14.0	13-May-24	29-May-24	-10.0	Installation of noise barrier steel posts (Bay 13 - Bay 17)				
S1-NB1240	Installation of noise barrier panels (Bay 13 - Bay 17)	28.0	30-May-24	03-Jul-24	-10.0	Installation of noise barrier panels (Bay 13 - Bay 17)				
Noise Barrier NB63 (Bay 7 to Bay 12)										
S1-NB1205	Installation of sheet piles (Bay 7 - Bay 12)	16.0	16-Feb-24 A	26-Mar-24	-18.0	Installation of sheet piles (Bay 7 - Bay 12)				
S1-NB1215	Excavation and installation of lateral support (Bay 7 - Bay 12)	40.0	16-Feb-24 A	16-May-24	-12.0	Excavation and installation of lateral support (Bay 7 - Bay 12)				
S1-NB1222	Construction of base slab (Bay 7 - Bay 12)	16.0	17-May-24	04-Jun-24	-12.0	Construction of base slab (Bay 7 - Bay 12)				
S1-NB1230	Construction of wall stem (Bay 7 - Bay 12)	18.0	05-Jun-24	26-Jun-24	-12.0	Construction of wall stem (Bay 7 - Bay 12)				
Noise Barrier NB63 (Bay 1 to Bay 6)										
S1-NB1100	Installation of sheet piles	18.0	27-Mar-24	20-Apr-24	-18.0	Installation of sheet piles				
S1-NB1110	Excavation and installation of lateral support	32.0	22-Apr-24	30-May-24	-18.0	Excavation and installation of lateral support				
S1-NB1120	Construction of base slab	30.0	31-May-24	06-Jul-24	-18.0	Construction of base slab				
Section 6- Completion of Preservation And Protection Of Existing Trees										
S6-CS1000	Preservation and protection of trees	1146.0	31-Aug-20 A	30-Nov-24	-12.0	Preservation and protection of trees				
Section 7- Completion of All Landscape Softworks										
S7-CS1000	Landscape softwork concurrent with other civil works	149.0	21-May-24	15-Nov-24	-22.0	Landscape softwork concurrent with other civil works				
Section 10- Site Formation and Infrastructure Works in Area E2										
Footpath L1 in Portion I (P700 CH175 to CH245)										
S10-NB1120	Planned completion of the Section 10 of the Works	0.0		15-Apr-24	-18.0	Planned completion of the Section 10 of the Works				
S5-RD1100	Construction of footpath	30.0	01-Mar-24 A	15-Apr-24	-18.0	Construction of footpath				
S5-RD1120	Installation of road lighting	24.0	15-Feb-24 A	08-Apr-24	-18.0	Installation of road lighting				

- Actual Work
- Remaining Work
- Critical Remaining Work
- ◆ Milestone



Date	Revision	Checked	Approved
08-Mar-24	RDWPD	ST	CLX

Portion	Legend
I	
II	
III	
IV	
V	

PORTION II

1. C&D waste disposal
2. Construction of box culvert
3. Filling works
4. Waterworks
5. 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. C&D waste disposal
2. Construction of noise barrier
3. Construction of site haul road
4. Road works

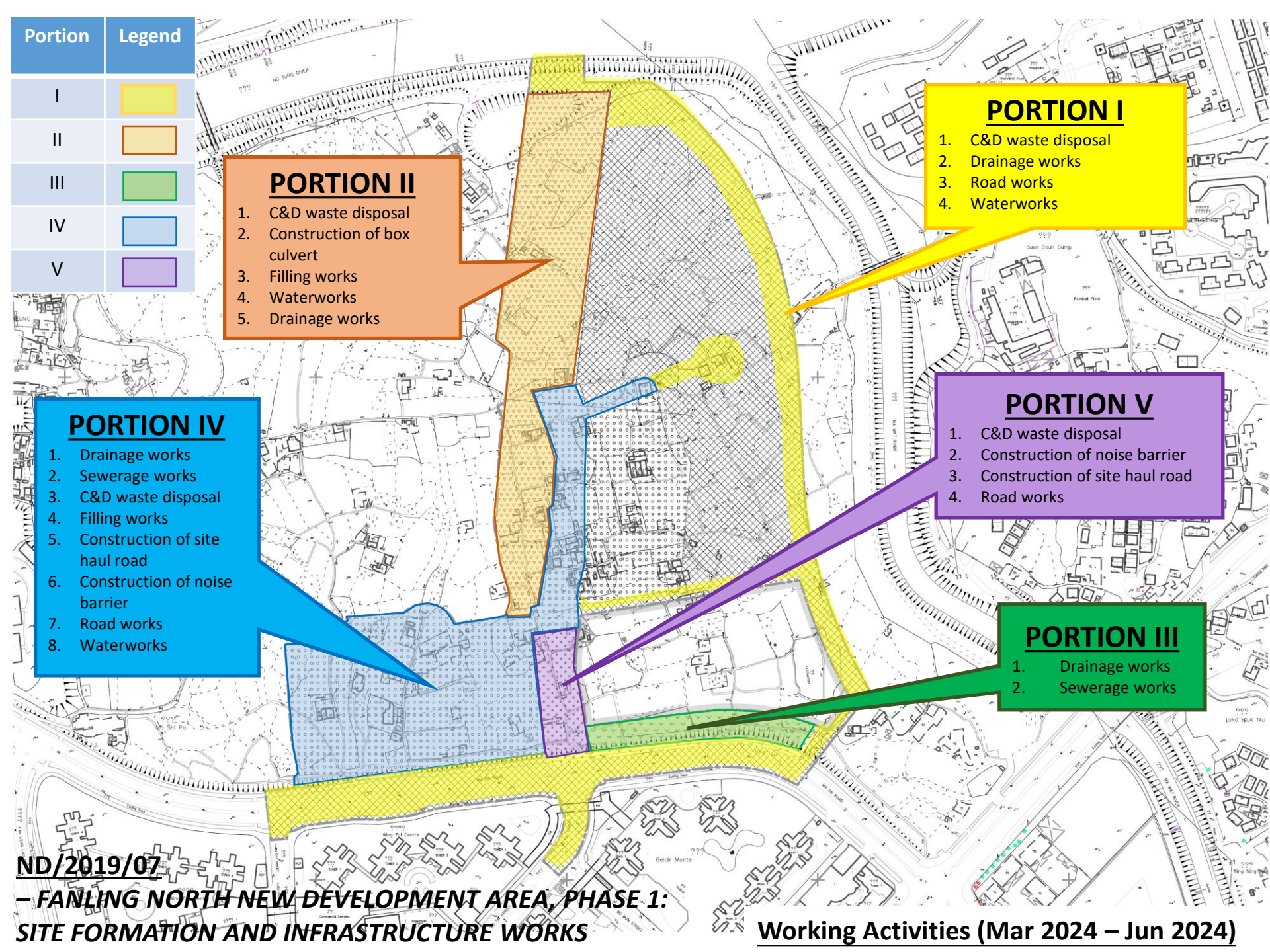
PORTION III

1. Drainage works
2. Sewerage works

ND/2019/07

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

Working Activities (Mar 2024 – Jun 2024)



**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 – March

Monitoring Parameter	Action Level	Limit Level
Mean abundance of bird	395	282
Mean abundance of <i>Ardeola bacchus</i>	9	6
General site inspection	Activity likely to cause unacceptable environmental disturbance or damage	Activity causing unacceptable environmental disturbance or damage

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

Monitoring Parameter	Action Level	Limit Level
Mean abundance of birds*	18	13
Mean abundance of <i>Ardeola bacchus</i>	8	6
*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 – March

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

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

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.:	39724
Date of Issue:	2024-01-15
Date Received:	2024-01-13
Date Tested:	2024-01-13
Date Completed:	2024-01-15
Next Due Date:	2024-03-14

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)	1.124
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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-Jan-24	13-Jan-24
Location:	Wellab Office (Calibration Room)	

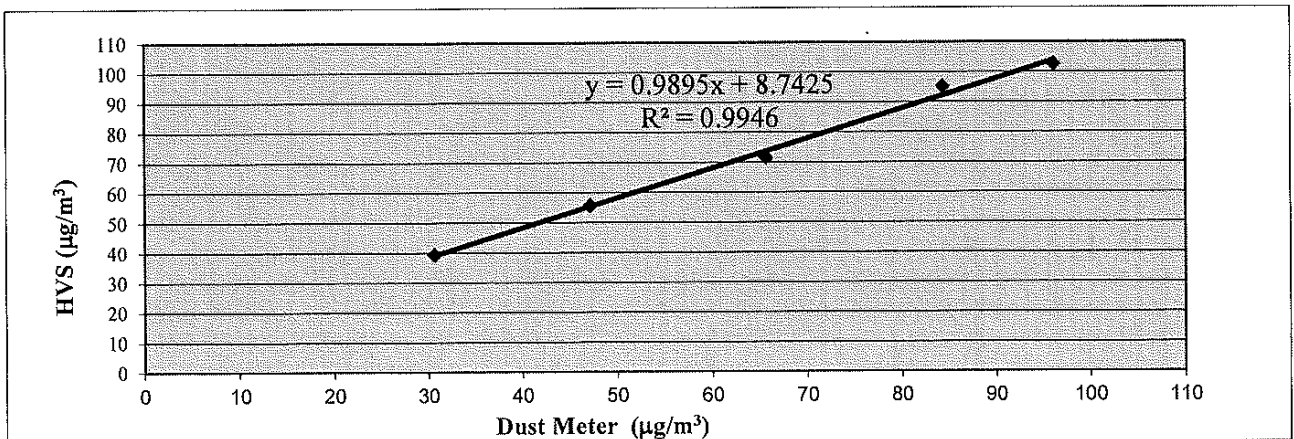
Calibration of 1 hr TSP		
Calibration Point	Dust Meter	HVS
	Mass Concentration ($\mu\text{g}/\text{m}^3$) X-axis	Mass concentration ($\mu\text{g}/\text{m}^3$) Y-axis
1	31	39
2	47	56
3	66	72
4	84	95
5	96	103
Average	64.8	72.9

By Linear Regression of Y on X
 Slope, mw = 0.9895 Intercept, bw = 8.7425
 Correlation coefficient* = 0.9973

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particulate Concentration by High Volume Sampler ($\mu\text{g}/\text{m}^3$)	72.9
Particulate Concentration by Dust Meter ($\mu\text{g}/\text{m}^3$)	64.8
Measuring time, (min)	60

Set Correlation Factor, SCF
 SCF = [K=High Volume Sampler / Dust Meter, ($\mu\text{g}/\text{m}^3$)] 1.124



QC Reviewer: Liz MAN HAV Signature: hes Date: 12/1/24

TEST REPORT

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

Test Report No.:	39951
Date of Issue:	2024-03-11
Date Received:	2024-03-08
Date Tested:	2024-03-08
Date Completed:	2024-03-11
Next Due Date:	2024-05-10

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)	1.079
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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:	8-Mar-24	8-Mar-24
Location:	Wellab Office (Calibration Room)	

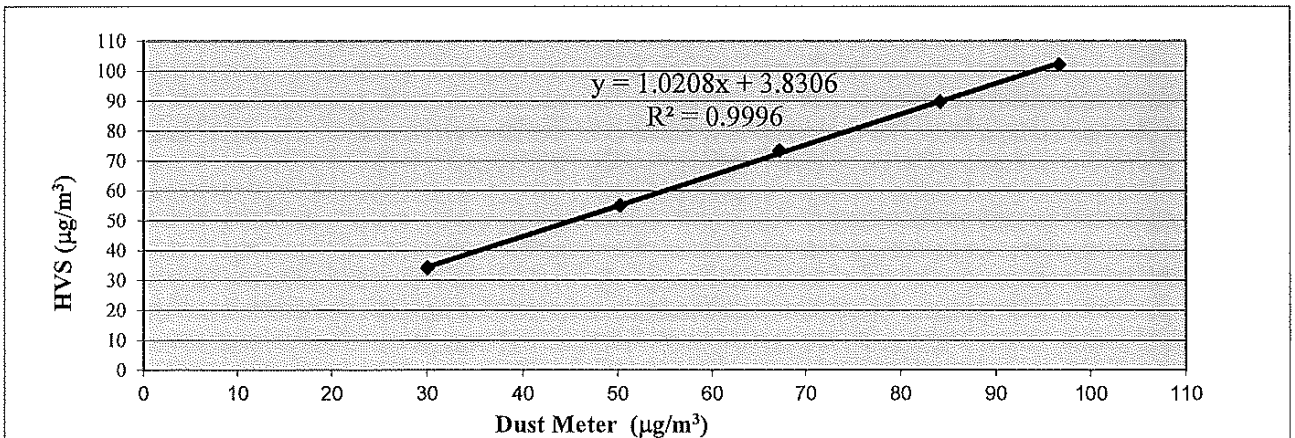
Calibration of 1 hr TSP		
Calibration Point	Dust Meter	HVS
	Mass Concentration ($\mu\text{g}/\text{m}^3$) X-axis	Mass concentration ($\mu\text{g}/\text{m}^3$) Y-axis
1	30	34
2	50	55
3	67	73
4	84	90
5	97	102
Average	65.7	70.9

By Linear Regression of Y on X
 Slope, mw = 1.0208 Intercept, bw = 3.8306
 Correlation coefficient* = 0.9998

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particulate Concentration by High Volume Sampler ($\mu\text{g}/\text{m}^3$)	70.9
Particulate Concentration by Dust Meter ($\mu\text{g}/\text{m}^3$)	65.7
Measuring time, (min)	60

Set Correlation Factor, SCF
 $\text{SCF} = |K = \text{High Volume Sampler} / \text{Dust Meter, } (\mu\text{g}/\text{m}^3)|$ 1.079



QC Reviewer: LSA MRS HBZ Signature: he Date: 8/3/24

TEST REPORT

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

Test Report No.:	39951B
Date of Issue:	2024-03-11
Date Received:	2024-03-08
Date Tested:	2024-03-08
Date Completed:	2024-03-11
Next Due Date:	2024-05-10

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)	1.116
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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:	8-Mar-24	8-Mar-24
Location:	Wellab Office (Calibration Room)	

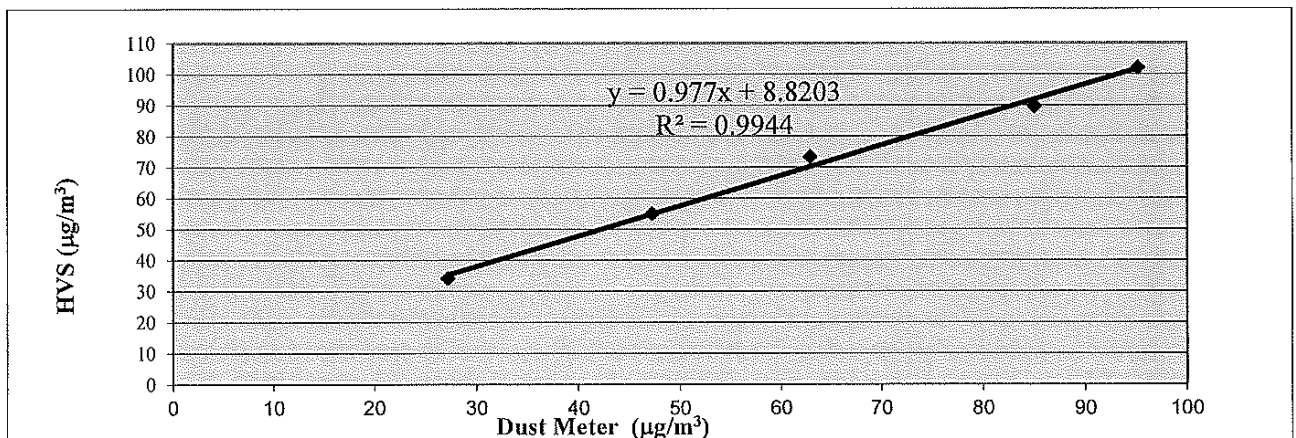
Calibration of 1 hr TSP		
Calibration Point	Dust Meter	HVS
	Mass Concentration ($\mu\text{g}/\text{m}^3$) X-axis	Mass concentration ($\mu\text{g}/\text{m}^3$) Y-axis
1	27	34
2	47	55
3	63	73
4	85	90
5	95	102
Average	63.5	70.9

By Linear Regression of Y on X
 Slope, mw = 0.9770 Intercept, bw = 8.8203
 Correlation coefficient* = 0.9972

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particulate Concentration by High Volume Sampler ($\mu\text{g}/\text{m}^3$)	70.9
Particulate Concentration by Dust Meter ($\mu\text{g}/\text{m}^3$)	63.5
Measuring time, (min)	60

Set Correlation Factor, SCF
 SCF = [K=High Volume Sampler / Dust Meter, ($\mu\text{g}/\text{m}^3$)] 1.116



QC Reviewer: LBB MAN 1172 Signature: his Date: 8/3/24

TEST REPORT

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

Test Report No.:	39869A
Date of Issue:	2024-02-26
Date Received:	2024-02-23
Date Tested:	2024-02-23
Date Completed:	2024-02-26
Next Due Date:	2024-04-25

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)	1.119
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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:	23-Feb-24	23-Feb-24
Location:	Wellab Office (Calibration Room)	

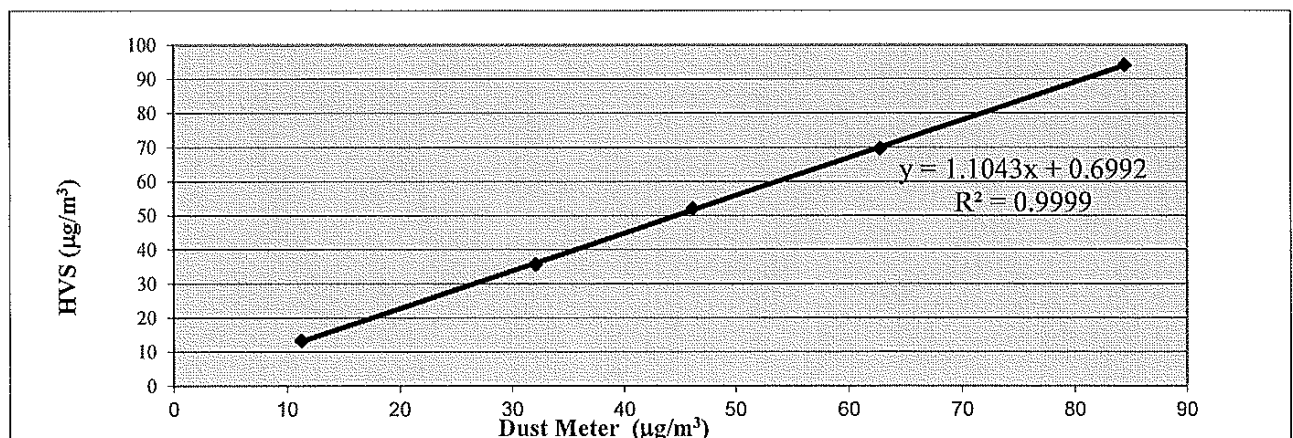
Calibration of 1 hr TSP		
Calibration Point	Dust Meter	HVS
	Mass Concentration ($\mu\text{g}/\text{m}^3$) X-axis	Mass concentration ($\mu\text{g}/\text{m}^3$) Y-axis
1	11	13
2	32	36
3	46	52
4	63	70
5	85	94
Average	47.4	53.0

By Linear Regression of Y on X
 Slope, mw = 1.1043 Intercept, bw = 0.6992
 Correlation coefficient* = 0.9999

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particulate Concentration by High Volume Sampler ($\mu\text{g}/\text{m}^3$)	53.0
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, ($\mu\text{g}/\text{m}^3$)] 1.119



QC Reviewer: LBB MAN HEB Signature: hei Date: 23/2/24

TEST REPORT

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

Test Report No.:	39724D
Date of Issue:	2024-01-15
Date Received:	2024-01-13
Date Tested:	2024-01-13
Date Completed:	2024-01-15
Next Due Date:	2024-03-14

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. : X24475
 Flow rate : 0.1 cfm
 Zero Count Test : 0 count per 1 minute
 Equipment No. : WA-01-07

Test Conditions:

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

Test Specifications & Methodology:

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

Results:

Correlation Factor (CF)	1.105
-------------------------	-------

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-01-07	WA-12-09
Model No. :	AEROCET-831	TE-5170
Serial No.	X24475	2203
Calibration Date:	13-Jan-24	13-Jan-24
Location:	Wellab Office (Calibration Room)	

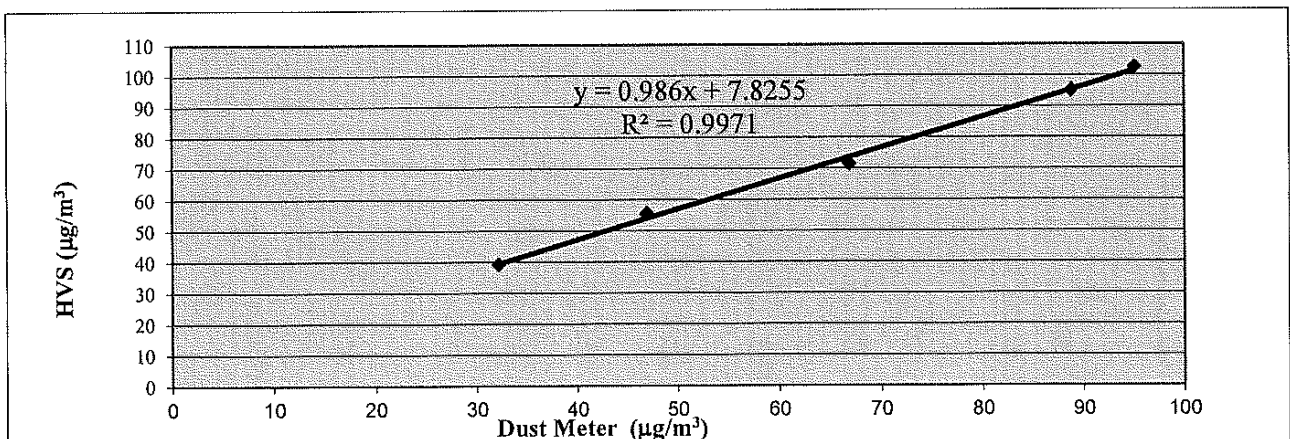
Calibration of 1 hr TSP		
Calibration Point	Dust Meter	HVS
	Mass Concentration ($\mu\text{g}/\text{m}^3$) X-axis	Mass concentration ($\mu\text{g}/\text{m}^3$) Y-axis
1	32	39
2	47	56
3	67	72
4	89	95
5	95	103
Average	66.0	72.9

By Linear Regression of Y on X
 Slope, mw = 0.9860 Intercept, bw = 7.8255
 Correlation coefficient* = 0.9985

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particulate Concentration by High Volume Sampler ($\mu\text{g}/\text{m}^3$)	72.9
Particulate Concentration by Dust Meter ($\mu\text{g}/\text{m}^3$)	66.0
Measuring time, (min)	60

Set Correlation Factor, SCF
 SCF = [K=High Volume Sampler / Dust Meter, ($\mu\text{g}/\text{m}^3$)] 1.105



QC Reviewer: LEE MHW KTV Signature: hee Date: 13/1/24

TEST REPORT

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

Test Report No.:	39869B
Date of Issue:	2024-02-26
Date Received:	2024-02-23
Date Tested:	2024-02-23
Date Completed:	2024-02-26
Next Due Date:	2024-04-25

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)	1.100
-------------------------	-------

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:	23-Feb-24	23-Feb-24
Location:	Wellab Office (Calibration Room)	

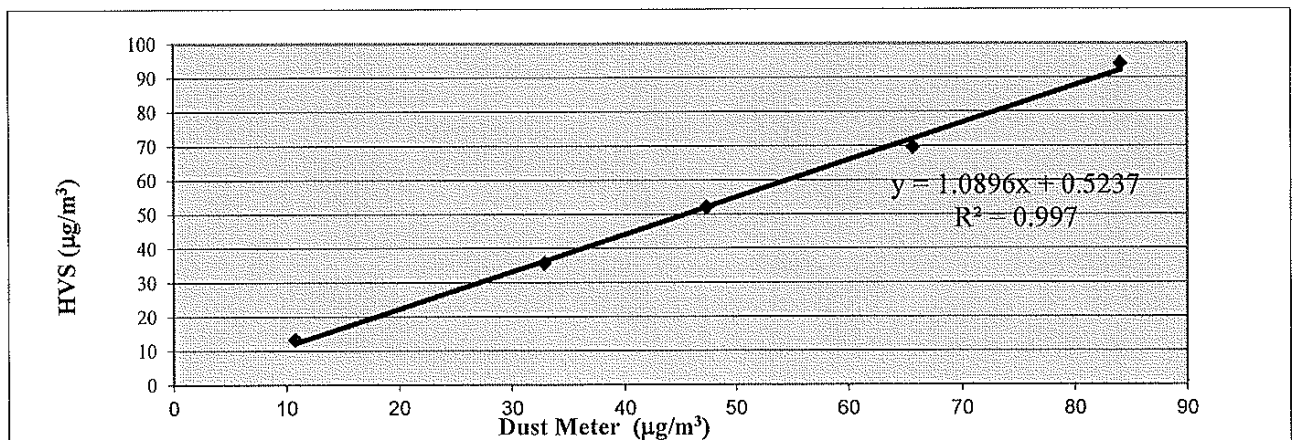
Calibration of 1 hr TSP		
Calibration Point	Dust Meter	HVS
	Mass Concentration ($\mu\text{g}/\text{m}^3$) X-axis	Mass concentration ($\mu\text{g}/\text{m}^3$) Y-axis
1	11	13
2	33	36
3	47	52
4	66	70
5	84	94
Average	48.2	53.0

By Linear Regression of Y on X
 Slope, $m_w =$ 1.0896 Intercept, $b_w =$ 0.5237
 Correlation coefficient* = 0.9985

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particulate Concentration by High Volume Sampler ($\mu\text{g}/\text{m}^3$)	53.0
Particulate Concentration by Dust Meter ($\mu\text{g}/\text{m}^3$)	48.2
Measuring time, (min)	60

Set Correlation Factor, SCF
 $\text{SCF} = [K = \text{High Volume Sampler} / \text{Dust Meter, } (\mu\text{g}/\text{m}^3)]$ 1.100



QC Reviewer: LBE MAN LEE Signature: he Date: 23/2/24

TEST REPORT

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

Test Report No.:	39869C
Date of Issue:	2024-02-26
Date Received:	2024-02-23
Date Tested:	2024-02-23
Date Completed:	2024-02-26
Next Due Date:	2024-04-25
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)	1.094
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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:	23-Feb-24	23-Feb-24
Location:	Wellab Office (Calibration Room)	

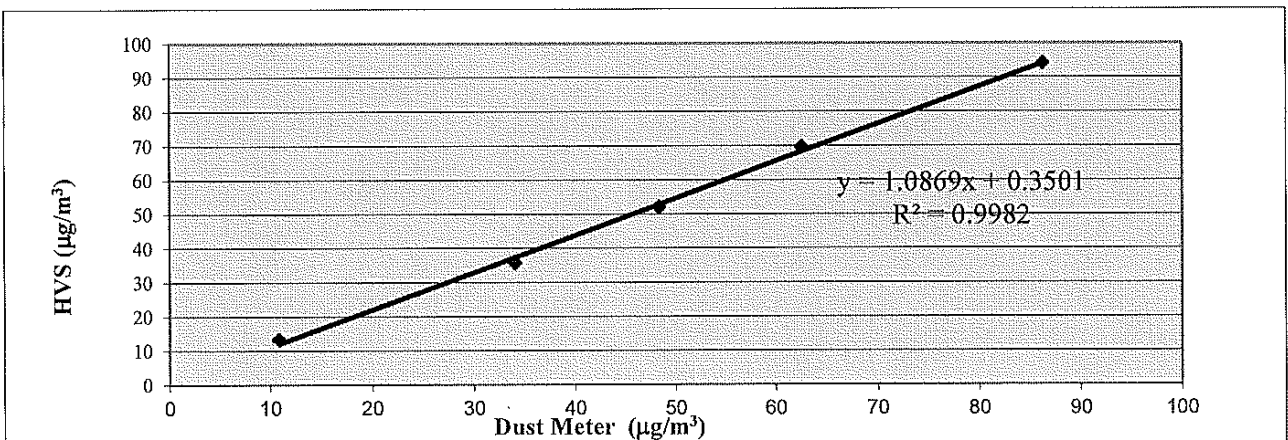
Calibration of 1 hr TSP		
Calibration Point	Dust Meter	HVS
	Mass Concentration ($\mu\text{g}/\text{m}^3$) X-axis	Mass concentration ($\mu\text{g}/\text{m}^3$) Y-axis
1	11	13
2	34	36
3	48	52
4	63	70
5	86	94
Average	48.5	53.0

By Linear Regression of Y on X
 Slope, mw = 1.0869 Intercept, bw = 0.3501
 Correlation coefficient* = 0.9991

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particulate Concentration by High Volume Sampler ($\mu\text{g}/\text{m}^3$)	53.0
Particulate Concentration by Dust Meter ($\mu\text{g}/\text{m}^3$)	48.5
Measuring time, (min)	60

Set Correlation Factor, SCF
 SCF = [K=High Volume Sampler / Dust Meter, ($\mu\text{g}/\text{m}^3$)] 1.094



QC Reviewer: LBB MAN HZ Signature: hei Date: 23/2/24

TEST REPORT

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

Test Report No.:	39869D
Date of Issue:	2024-02-26
Date Received:	2024-02-23
Date Tested:	2024-02-23
Date Completed:	2024-02-26
Next Due Date:	2024-04-25

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)	1.075
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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:	23-Feb-24	23-Feb-24
Location:	Wellab Office (Calibration Room)	

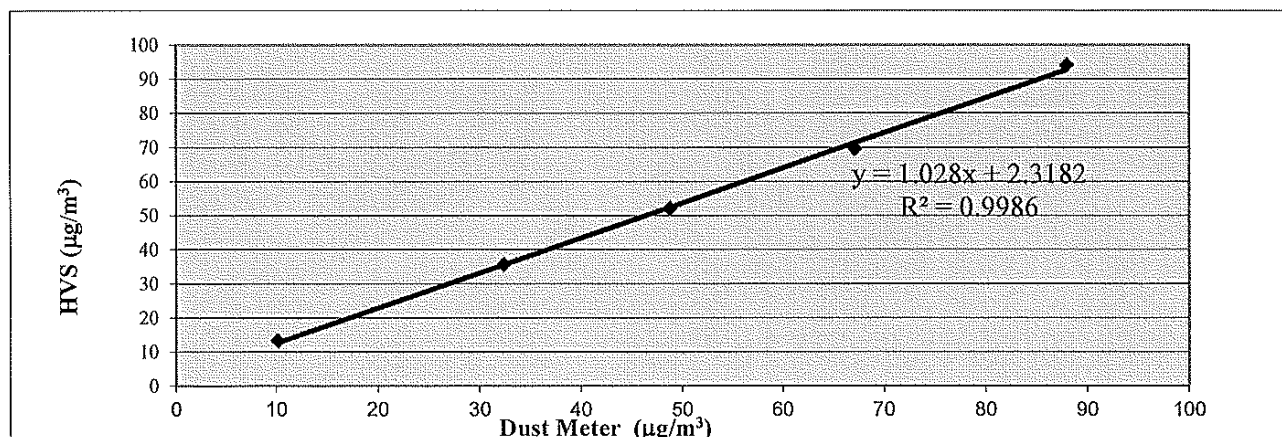
Calibration of 1 hr TSP		
Calibration Point	Dust Meter	HVS
	Mass Concentration ($\mu\text{g}/\text{m}^3$) X-axis	Mass concentration ($\mu\text{g}/\text{m}^3$) Y-axis
1	10	13
2	32	36
3	49	52
4	67	70
5	88	94
Average	49.3	53.0

By Linear Regression of Y on X
 Slope , mw = 1.0280 Intercept, bw = 2.3182
 Correlation coefficient* = 0.9993

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particulate Concentration by High Volume Sampler ($\mu\text{g}/\text{m}^3$)	53.0
Particulate Concentration by Dust Meter ($\mu\text{g}/\text{m}^3$)	49.3
Measuring time, (min)	60

Set Correlation Factor , SCF
 SCF = [K=High Volume Sampler / Dust Meter, ($\mu\text{g}/\text{m}^3$)] 1.075



QC Reviewer: LBE MAN HBR Signature: hes Date: 23/2/24

Certificate of Calibration

Calibration Certification Information			
Cal. Date: January 16, 2023	Rootsmeter S/N: 438320	Ta: 293	°K
Operator: Jim Tisch		Pa: 749.0	mm Hg
Calibration Model #: TE-5025A	Calibrator S/N: 0993		

Run	Vol. Init (m3)	Vol. Final (m3)	ΔVol. (m3)	ΔTime (min)	ΔP (mm Hg)	ΔH (in H2O)
1	1	2	1	1.3860	3.2	2.00
2	3	4	1	0.9880	6.4	4.00
3	5	6	1	0.8810	8.0	5.00
4	7	8	1	0.8410	8.8	5.50
5	9	10	1	0.6950	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)
0.9981	0.7201	1.4159	0.9957	0.7184	0.8845
0.9938	1.0059	2.0024	0.9915	1.0035	1.2509
0.9917	1.1257	2.2388	0.9893	1.1230	1.3985
0.9906	1.1779	2.3480	0.9883	1.1751	1.4668
0.9853	1.4177	2.8318	0.9829	1.4143	1.7690
QSTD	m=	2.02881	QA	m=	1.27041
	b=	-0.04292		b=	-0.02681
	r=	0.99998		r=	0.99998

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

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



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= $\Delta Vol / ((Pa - \Delta P) / Pstd) (Tstd / Ta)$	Va= $\Delta Vol / ((Pa - \Delta P) / Pa)$
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

High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET

Station FLN-DMS3 - House near Tong Hang
 Date: 25-Jan-24
 Model No. TE-5170
 Equipment No.: WA-12-17

File No. WMA20002/17/0023
 Next Due Date: 24-Mar-24
 Operator: HL
 Serial No. 3218

Ambient Condition			
Temperature, Ta (K)	283.2	Pressure, Pa (mmHg)	773.5

Orifice Transfer Standard Information					
Serial No.	2896	Slope, mc	0.0589	Intercept, bc	-0.02865
Last Calibration Date:	15-Jan-24	$mc \times Qstd + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$			
Next Calibration Date:	15-Jan-25	$Qstd = \{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$			

Calibration of TSP Sampler					
Calibration Point	Orifice			HVS	
	ΔH (orifice), in. of water	$[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ Y-axis
1	15.2	4.03	68.95	9.9	3.26
2	11.2	3.46	59.25	7.4	2.82
3	9.6	3.21	54.89	6.0	2.53
4	6.1	2.56	43.86	4.3	2.15
5	3.5	1.94	33.34	2.4	1.60

By Linear Regression of Y on X

Slope, mw = 0.0457 Intercept, bw : 0.0941
 Correlation coefficient* = 0.9977

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

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

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

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

Therefore, Set Point; W = $(mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$ 3.95

Remarks: _____

Conducted by: LEE MAN HOI Signature: _____
 Checked by: Wai Ka Chun Signature: _____

Date: 25-1-2024
 Date: 28/1/24

High-Volume TSP Sampler
5-POINT CALIBRATION DATA SHEET

Station FLN-DMS3 - House near Tong Hang
Date: 20-Mar-24
Model No. TE-5170
Equipment No.: WA-12-17

File No. WMA20002/17/0024
Next Due Date: 19-May-24
Operator: HL
Serial No. 3218

Ambient Condition			
Temperature, Ta (K)	296.5	Pressure, Pa (mmHg)	766.3

Orifice Transfer Standard Information					
Serial No.	2896	Slope, mc	0.0589	Intercept, bc	-0.02865
Last Calibration Date:	15-Jan-24	$mc \times Qstd + bc = [\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ $Qstd = \{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$			
Next Calibration Date:	15-Jan-25				

Calibration of TSP Sampler					
Calibration Point	Orifice			HVS	
	ΔH (orifice), in. of water	$[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$	Qstd (CFM) X - axis	ΔW (HVS), in. of water	$[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ Y-axis
1	16.0	4.03	68.81	10.2	3.22
2	11.3	3.38	57.91	7.5	2.76
3	9.4	3.09	52.86	5.8	2.42
4	6.6	2.59	44.37	4.2	2.06
5	3.7	1.94	33.34	2.5	1.59

By Linear Regression of Y on X

Slope, mw = 0.0463 Intercept, bw : 0.0255
Correlation coefficient* = 0.9982

*If Correlation Coefficient < 0.990, check and recalibrate.

Set Point Calculation

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

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

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

Therefore, Set Point; W = $(mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$ 4.02

Remarks: _____

Conducted by: Liza Man Ho Signature: _____
Checked by: Ho Ka Chun Signature: _____

Date: 20/3/24
Date: 20/3/24

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

Station KTN-DMS4A - Temporary Structure at Pak Shek Au
Date: 27-Feb-24
Model No. TE-6070X
Equipment No.: WA-11-03

File No. WMA20002/03/0023
Next Due Date: 26-Apr-24
Operator: HL
Serial No. 3225

Ambient Condition		
Temperature, Ta (K)	295	Pressure, Pa (mmHg)
		767.2

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	12.2	12.44	60.33	59.17	1.67	8.8	1.93
2	10.5	10.71	56.01	54.92	1.55	7.4	1.77
3	7	7.14	45.82	44.93	1.27	5.2	1.48
4	5.2	5.30	39.56	38.79	1.10	4.2	1.33
5	2.4	2.45	27.03	26.51	0.75	1.8	0.87

By Linear Regression of Y on X

Slope, mw = 0.0315 Intercept, bw = 0.0660
Correlation coefficient* = 0.9974

- (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 $\times (Ta / Pa) \times (760 / 298)$ (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>39.16</u>
Sampler Well - Type Manometer Set Point, SSP	
SSP = $[(mw \times SFR + bw)^2 \times Pa] / (Ta + 30) =$	<u>3.98</u>

Remarks: _____

Conducted by: LEE MAN HING Signature: [Signature] Date: 27/2/24
Checked by: Ho Ka Chun Signature: [Signature] Date: 27/2/24

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.:	37894
Date of Issue:	2023-03-13
Date Received:	2023-03-10
Date Tested:	2023-03-10
Date Completed:	2023-03-13
Next Due Date:	2024-03-12

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.	: 580011
Equipment No.	: WN-01-08

Test conditions:

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

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

Reference Set Point, dB	Instrument Readings, dB
94	94.0
114	114.0

PREPARED AND CHECKED BY:

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



PATRICK TSE

General Manager

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.:	38981
Date of Issue:	2023-10-03
Date Received:	2023-09-29
Date Tested:	2023-09-29
Date Completed:	2023-10-03
Next Due Date:	2024-10-02

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.:	38750A
Date of Issue:	2023-08-21
Date Received:	2023-08-18
Date Tested:	2023-08-18
Date Completed:	2023-08-21
Next Due Date:	2024-08-20

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.:	38981A
Date of Issue:	2023-10-03
Date Received:	2023-09-29
Date Tested:	2023-09-29
Date Completed:	2023-10-03
Next Due Date:	2024-10-02

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.:	39516D
Date of Issue:	2023-12-22
Date Received:	2023-12-21
Date Tested:	2023-12-21 to 2023-12-22
Date Completed:	2023-12-22

ATTN: Miss Mei Ling Tang

Page: 1 of 2

Certificate of Calibration

Item for calibration:

YSI EXO1 Multiparameter Sondes	Equipment No.: SW-08-129	
Manufacturer:	YSI Incorporated, a Xylem brand	
Description:	Model No.	Serial No.
- EXO1 Sonde, 100 meter Depth, 4 Sensor ports	599502-24	17B101455
- EXO Optical DO Sensor, Ti	599100-01	17M101337
- EXO conductivity/Temperature Sensor, Ti	599870	17B100784
- EXO Turbidity Sensor, Ti	599101-01	16J101112
- EXO pH Sensor Assembly, Guarded, Ti	599701	16J100565

Test conditions:

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

Test Specifications:

Performance checking for Conductivity, Temperature, pH, Dissolved oxygen (D.O.) and Turbidity

Methodology:

According to manufacturer instruction manual, APHA 20e 4500-O C

PREPARED AND CHECKED BY:

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


PATRICK TSE
General Manager

TEST REPORT

Test Report No.:	39516D
Date of Issue:	2023-12-22
Date Received:	2023-12-21
Date Tested:	2023-12-21 to 2023-12-22
Date Completed:	2023-12-22

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

	Instrument Readings ($^{\circ}\text{C}$)	Correction ($^{\circ}\text{C}$)	Comment
Reference thermometer- E431 Readings ($^{\circ}\text{C}$)			
20.0	19.998	+0.002	N/A

pH performance checking

	Instrument Readings (pH unit)	Acceptance Criteria	Comment
pH QC buffer 4.00	4.04	4.00 ± 0.10	Pass
pH QC buffer 6.86	6.86	6.86 ± 0.10	Pass
pH QC buffer 9.18	9.24	9.18 ± 0.10	Pass

D.O. performance checking

	Instrument Readings (mg/L)	Acceptance Criteria	Comment
Zero DO solution	0.08	$<0.1\text{mg}/\text{L}$	Pass

	Instrument Readings (mg/L)	Acceptance Criteria	Comment
Winkler Titration value (mg/L)			
8.12	8.03	Difference between Titration value and instrument reading $<0.2\text{mg}/\text{L}$	Pass

Turbidity performance checking

	Instrument Readings (NTU)	Acceptance Criteria	Comment
Turbidity stock solution			
10 NTU	10.02	9.0-11.0	Pass
50 NTU	50.11	45.0-55.0	Pass
100 NTU	100.5	90.0-110.0	Pass

Depth performance checking

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

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

TEST REPORT

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

Test Report No.:	40029E
Date of Issue:	2024-03-22
Date Received:	2024-03-21
Date Tested:	2024-03-21 to 2024-03-22
Date Completed:	2024-03-22

ATTN: Miss Mei Ling Tang

Page: 1 of 2

Certificate of Calibration

Item for calibration:

YSI EXO1 Multiparameter Sondes	Equipment No.: SW-08-137	
Manufacturer:	YSI Incorporated, a Xylem brand	
Description:	Model No.	Serial No.
- EXO1 Sonde, 100 meter Depth, 4 Sensor ports	599502-24	17B101463
- EXO Optical DO Sensor, Ti	599100-01	16H102983
- EXO conductivity/Temperature Sensor, Ti	599870	17B100795
- EXO Turbidity Sensor, Ti	599101-01	20J103613
- EXO pH Sensor Assembly, Guarded, Ti	599701	16J101287

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.:	40029E
Date of Issue:	2024-03-22
Date Received:	2024-03-21
Date Tested:	2024-03-21 to 2024-03-22
Date Completed:	2024-03-22
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	20.001	-0.001	N/A

pH performance checking

	Instrument Readings (pH unit)	Acceptance Criteria	Comment
pH QC buffer 4.00	4.02	4.00 ± 0.10	Pass
pH QC buffer 6.86	6.87	6.86 ± 0.10	Pass
pH QC buffer 9.18	9.19	9.18 ± 0.10	Pass

D.O. performance checking

	Instrument Readings (mg/L)	Acceptance Criteria	Comment
Zero DO solution	0.08	$<0.1\text{mg}/\text{L}$	Pass

Winkler Titration value (mg/L)	Instrument Readings (mg/L)	Acceptance Criteria	Comment
7.98	8.14	Difference between Titration value and instrument reading $<0.2\text{mg}/\text{L}$	Pass

Turbidity performance checking

Turbidity stock solution	Instrument Readings (NTU)	Acceptance Criteria	Comment
10 NTU	9.96	9.0-11.0	Pass
50 NTU	49.28	45.0-55.0	Pass
100 NTU	98.9	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:** 08.24.2023

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: Zhang Lu **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.

**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 (March 2024)

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

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 (March 2024)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1-Mar	2-Mar
					<u>Water Quality Monitoring</u> River Beas, River Indus and near Siu Hang San Tsuen Stream	
3-Mar	4-Mar	5-Mar	6-Mar	7-Mar	8-Mar	9-Mar
	<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-Mar	11-Mar	12-Mar	13-Mar	14-Mar	15-Mar	16-Mar
	<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-Mar	18-Mar	19-Mar	20-Mar	21-Mar	22-Mar	23-Mar
	<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-Mar	25-Mar	26-Mar	27-Mar	28-Mar	29-Mar	30-Mar
	<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			
31-Mar						

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 (March 2024)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1-Mar	2-Mar
3-Mar	4-Mar	5-Mar	6-Mar	7-Mar	8-Mar	9-Mar
	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: 08:00	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: 09:00 Low tide: Start time: 13:00		
10-Mar	11-Mar	12-Mar	13-Mar	14-Mar	15-Mar	16-Mar
	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: 10:00 Low tide: Start time: 15:30		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: 08:00		
17-Mar	18-Mar	19-Mar	20-Mar	21-Mar	22-Mar	23-Mar
				Monitoring of Measures to Minimise Disturbance to Water Birds in Ng Tung River <u>T1 T2</u> High tide: Start time: 09:00 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: 09:00 Low tide: Start time: 13:00	
24-Mar	25-Mar	26-Mar	27-Mar	28-Mar	29-Mar	30-Mar
	Monitoring of Measures to Minimise Disturbance to Water Birds in Sheung Yue River and Long Valley <u>T3 T5#</u> High tide: Start time: 09:00 Low tide: Start time: 14:00			Monitoring of Measures to Minimise Disturbance to Water Birds in Ng Tung River <u>T1 T2</u> High tide: Start time: 10:00 Low tide: Start time: 16:00		
31-Mar						

#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 March 2024

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

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 (April 2024)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1-Apr	2-Apr	3-Apr	4-Apr	5-Apr	6-Apr
		<p><u>1hr TSP* X3</u> KTN-DMS4(B), FLN-DMS5</p> <p><u>24hr TSP*</u> KTN-DMS4(B), FLN-DMS5A</p> <p><u>Noise</u> CP-KTN-NMS2, CP-KTN-NMS3, CP-KTN-NMS5, CP-KTN-NMS6</p> <p><u>24hr TSP</u> FLN-DMS1, FLN-DMS3</p>	<p><u>1hr TSP* X3</u> FLN-DMS1, FLN-DMS3</p> <p><u>Noise</u> CP-FLN-NMS1, CP-FLN-NMS2</p> <p><u>24hr RSP (Arsenic)</u> KTN-DMS4A</p>			
7-Apr	8-Apr	9-Apr	10-Apr	11-Apr	12-Apr	13-Apr
	<p><u>1hr TSP* X3</u> KTN-DMS4(B), FLN-DMS5</p> <p><u>24hr TSP*</u> KTN-DMS4(B), FLN-DMS5A</p> <p><u>24hr TSP</u> FLN-DMS1, FLN-DMS3</p>	<p><u>1hr TSP* X3</u> FLN-DMS1, FLN-DMS3</p> <p><u>Noise</u> CP-FLN-NMS1, CP-FLN-NMS2</p> <p><u>24hr RSP (Arsenic)</u> KTN-DMS4A</p>		<p><u>1hr TSP* X3</u> KTN-DMS4(B), FLN-DMS5</p> <p><u>24hr TSP*</u> KTN-DMS4(B), FLN-DMS5A</p> <p><u>Noise</u> CP-KTN-NMS2, CP-KTN-NMS3, CP-KTN-NMS5, CP-KTN-NMS6</p> <p><u>24hr TSP</u> FLN-DMS1, FLN-DMS3</p>	<p><u>1hr TSP* X3</u> FLN-DMS1, FLN-DMS3</p>	
14-Apr	15-Apr	16-Apr	17-Apr	18-Apr	19-Apr	20-Apr
			<p><u>1hr TSP* X3</u> KTN-DMS4(B), FLN-DMS5</p> <p><u>24hr TSP*</u> KTN-DMS4(B), FLN-DMS5A</p> <p><u>Noise</u> CP-KTN-NMS2, CP-KTN-NMS3, CP-KTN-NMS5, CP-KTN-NMS6</p> <p><u>24hr TSP</u> FLN-DMS1, FLN-DMS3</p>	<p><u>1hr TSP* X3</u> FLN-DMS1, FLN-DMS3</p> <p><u>Noise</u> CP-FLN-NMS1, CP-FLN-NMS2</p>	<p><u>24hr RSP (Arsenic)</u> KTN-DMS4A</p>	
21-Apr	22-Apr	23-Apr	24-Apr	25-Apr	26-Apr	27-Apr
		<p><u>1hr TSP* X3</u> KTN-DMS4(B), FLN-DMS5</p> <p><u>24hr TSP*</u> KTN-DMS4(B), FLN-DMS5A</p> <p><u>Noise</u> CP-KTN-NMS2, CP-KTN-NMS3, CP-KTN-NMS5, CP-KTN-NMS6</p> <p><u>24hr TSP</u> FLN-DMS1, FLN-DMS3</p>	<p><u>1hr TSP* X3</u> FLN-DMS1, FLN-DMS3</p> <p><u>Noise</u> CP-FLN-NMS1, CP-FLN-NMS2</p>	<p><u>24hr RSP (Arsenic)</u> KTN-DMS4A</p>		
28-Apr	29-Apr	30-Apr				
	<p><u>1hr TSP* X3</u> KTN-DMS4(B), FLN-DMS5</p> <p><u>24hr TSP*</u> KTN-DMS4(B), FLN-DMS5A</p> <p><u>Noise</u> CP-KTN-NMS2, CP-KTN-NMS3, CP-KTN-NMS5, CP-KTN-NMS6</p> <p><u>24hr TSP</u> FLN-DMS1, FLN-DMS3</p>	<p><u>1hr TSP* X3</u> FLN-DMS1, FLN-DMS3</p> <p><u>Noise</u> CP-FLN-NMS1, CP-FLN-NMS2</p> <p><u>24hr RSP (Arsenic)</u> KTN-DMS4A</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 (April 2024)**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1-Apr	2-Apr	3-Apr	4-Apr	5-Apr	6-Apr
		Water Quality Monitoring River Beas, River Indus and near Siu Hang San Tsuen Stream			Water Quality Monitoring River Beas, River Indus and near Siu Hang San Tsuen Stream	
7-Apr	8-Apr	9-Apr	10-Apr	11-Apr	12-Apr	13-Apr
	Water Quality Monitoring River Beas, River Indus and near Siu Hang San Tsuen Stream		Water Quality Monitoring River Beas, River Indus and near Siu Hang San Tsuen Stream		Water Quality Monitoring River Beas, River Indus and near Siu Hang San Tsuen Stream	
14-Apr	15-Apr	16-Apr	17-Apr	18-Apr	19-Apr	20-Apr
	Water Quality Monitoring River Beas, River Indus and near Siu Hang San Tsuen Stream		Water Quality Monitoring River Beas, River Indus and near Siu Hang San Tsuen Stream		Water Quality Monitoring River Beas, River Indus and near Siu Hang San Tsuen Stream	
21-Apr	22-Apr	23-Apr	24-Apr	25-Apr	26-Apr	27-Apr
	Water Quality Monitoring River Beas, River Indus and near Siu Hang San Tsuen Stream		Water Quality Monitoring River Beas, River Indus and near Siu Hang San Tsuen Stream		Water Quality Monitoring River Beas, River Indus and near Siu Hang San Tsuen Stream	
28-Apr	29-Apr	30-Apr				
		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 (April 2024)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1-Apr	2-Apr	3-Apr	4-Apr	5-Apr	6-Apr
		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: 07:00			Monitoring of Measures to Minimise Disturbance to Water Birds in Sheung Yue River and Long Valley <u>T3 T5</u> High tide: Start time: 15:45 Low tide: Start time: 12:30	
7-Apr	8-Apr	9-Apr	10-Apr	11-Apr	12-Apr	13-Apr
	Monitoring of Measures to Minimise Disturbance to Water Birds in Sheung Yue River and Long Valley <u>T3 T5</u> High tide: Start time: 09:00 Low tide: Start time: 14:00	Monitoring of Measures to Minimise Disturbance to Water Birds in Ng Tung River <u>T1 T2</u> High tide: Start time: 10:00 Low tide: Start time: 15:00	Monitoring of Measures to Minimise Impacts on Ecological Sensitive Habitats from Disturbance and Pollution <u>T3, T4, T5</u>			
14-Apr	15-Apr	16-Apr	17-Apr	18-Apr	19-Apr	20-Apr
	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: 07:00		Monitoring of Measures to Minimise Impacts to Ma Tso Lung and Siu Hang San Tsuen Stream <u>MS 01 - MS 15</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: 08:00 Low tide: Start time: 12:00	
21-Apr	22-Apr	23-Apr	24-Apr	25-Apr	26-Apr	27-Apr
	Monitoring of Measures to Minimise Disturbance to Water Birds in Sheung Yue River and Long Valley <u>T3 T5</u> High tide: Start time: 09:00 Low tide: Start time: 14:00	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 Ng Tung River <u>T1 T2</u> High tide: Start time: 10:00 Low tide: Start time: 15:00		
28-Apr	29-Apr	30-Apr				
	Monitoring of Measures to Minimise Disturbance to Water Birds in Ng Tung River <u>T1 T2</u> High tide: Start time: 10:00 Low tide: Start time: 07:00					

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

Item	Activity	Monitoring Stations/Transects
1	Monitoring of Measures to Minimise Disturbance to Water Birds in Ng Tung River, Sheung Yue River, and Long Valley	T1. Ng Tung River T2. Ng Tung River T3. Sheung Yue River T5. Long Valley
2	Monitoring of Measures to Minimise Impacts to Aquatic Fauna in Ma Tso Lung Stream and Siu Hang San Tsuen Stream	MS_01, MS_02, MS_03, MS_04, MS_05, MS_06, MS_07, MS_08, MS_09, MS_10, MS_11, MS_12, MS_13, MS_14, MS_15
3	Monitoring of Measures to Minimise Impacts on Ecological Sensitive Habitats from Disturbance and Pollution	T1. Ma Tso Lung riparian zone and associated wetland habitats T1. Green belt areas E1-8,D1-8 and G1-3 in KTN NDA T1. AGR one C2-4 and C2-2 in KTN NDA T1. Areas north of Ng Tung River T3. Area west of Siu Hang San Tsuen Stream T4. South side of Fanling Highway and Castle Peak Road in the vicinity of Pak Shek Au T5. Area west and east of the southern limit of the FLN NDA work area T6. Areas in the western part of KTN

Contract No. NDO 04/2019
Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas
Tentative Weekly Site Inspection Schedule for April 2024

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

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 ($\mu\text{g}/\text{m}^3$)
4-Mar-24	9:00	Cloudy	51.6
4-Mar-24	10:00	Cloudy	64.3
4-Mar-24	11:00	Cloudy	56.0
8-Mar-24	9:00	Cloudy	88.1
8-Mar-24	10:00	Cloudy	76.5
8-Mar-24	11:00	Cloudy	84.4
14-Mar-24	13:00	Cloudy	153.1
14-Mar-24	14:00	Cloudy	131.4
14-Mar-24	15:00	Cloudy	136.0
20-Mar-24	8:45	Sunny	133.9
20-Mar-24	9:45	Sunny	126.6
20-Mar-24	10:45	Sunny	144.2
26-Mar-24	13:00	Cloudy	117.2
26-Mar-24	14:00	Cloudy	104.7
26-Mar-24	15:00	Cloudy	107.6
28-Mar-24	13:00	Cloudy	152.1
28-Mar-24	14:00	Cloudy	156.3
28-Mar-24	15:00	Cloudy	120.1
		Minimum	51.6
		Maximum	156.3
		Average	111.3

Location FLN-DMS3 - House near Tong Hang			
Date	Time	Weather	Particulate Concentration ($\mu\text{g}/\text{m}^3$)
4-Mar-24	13:00	Cloudy	61.0
4-Mar-24	14:00	Cloudy	66.7
4-Mar-24	15:00	Cloudy	70.6
8-Mar-24	13:00	Cloudy	74.1
8-Mar-24	14:00	Cloudy	81.1
8-Mar-24	15:00	Cloudy	88.7
14-Mar-24	9:00	Cloudy	98.2
14-Mar-24	10:00	Cloudy	90.9
14-Mar-24	11:00	Cloudy	102.9
20-Mar-24	13:10	Sunny	104.0
20-Mar-24	14:10	Sunny	110.9
20-Mar-24	15:10	Sunny	123.3
26-Mar-24	13:00	Cloudy	88.3
26-Mar-24	14:00	Cloudy	105.6
26-Mar-24	15:00	Cloudy	82.9
28-Mar-24	13:00	Cloudy	105.8
28-Mar-24	14:00	Cloudy	114.2
28-Mar-24	15:00	Cloudy	94.7
		Minimum	61.0
		Maximum	123.3
		Average	92.4

Appendix E - 1-hour TSP Monitoring Results

Location FLN-DMS5 - Noble Hill			
Date	Time	Weather	Particulate Concentration ($\mu\text{g}/\text{m}^3$)
1-Mar-24	13:00	Cloudy	63.3
1-Mar-24	14:00	Cloudy	57.3
1-Mar-24	15:00	Cloudy	68.0
7-Mar-24	9:00	Cloudy	73.9
7-Mar-24	10:00	Cloudy	78.2
7-Mar-24	11:00	Cloudy	87.6
13-Mar-24	9:00	Cloudy	130.1
13-Mar-24	10:00	Cloudy	146.2
13-Mar-24	11:00	Cloudy	154.1
19-Mar-24	9:00	Windy	42.2
19-Mar-24	10:00	Windy	44.4
19-Mar-24	11:00	Windy	38.7
25-Mar-24	9:00	Sunny	38.0
25-Mar-24	10:00	Sunny	33.1
25-Mar-24	11:00	Sunny	38.4
27-Mar-24	13:00	Fine	80.2
27-Mar-24	14:00	Fine	71.4
27-Mar-24	15:00	Fine	83.1
		Minimum	33.1
		Maximum	154.1
		Average	73.8

Location KTN-DMS4(B) - Temporary Structure at Pak Shek Au			
Date	Time	Weather	Particulate Concentration ($\mu\text{g}/\text{m}^3$)
1-Mar-24	13:00	Cloudy	72.3
1-Mar-24	14:00	Cloudy	79.2
1-Mar-24	15:00	Cloudy	57.1
7-Mar-24	13:00	Cloudy	61.3
7-Mar-24	14:00	Cloudy	64.9
7-Mar-24	15:00	Cloudy	62.8
13-Mar-24	9:00	Cloudy	119.3
13-Mar-24	10:00	Cloudy	158.5
13-Mar-24	11:00	Cloudy	161.9
19-Mar-24	13:00	Cloudy	49.3
19-Mar-24	14:00	Cloudy	77.1
19-Mar-24	15:00	Cloudy	48.7
25-Mar-24	13:00	Sunny	65.3
25-Mar-24	14:00	Sunny	59.2
25-Mar-24	15:00	Sunny	44.0
27-Mar-24	13:00	Cloudy	84.5
27-Mar-24	14:00	Cloudy	60.5
27-Mar-24	15:00	Cloudy	67.8
		Minimum	44.0
		Maximum	161.9
		Average	77.4

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			
1-Mar-24	Cloudy	288.6	2.9435	3.0396	0.0961	9075.1	9099.1	24.0	1.20	1.21	1.20	1734.8	55.4
7-Mar-24	Cloudy	294.5	2.8952	3.0128	0.1176	9099.1	9123.1	24.0	1.18	1.19	1.19	1707.5	68.9
13-Mar-24	Cloudy	289.1	2.9043	3.1164	0.2121	9123.1	9147.1	24.0	1.21	1.20	1.20	1732.7	122.4
19-Mar-24	Sunny	293.4	2.9210	3.0101	0.0891	9147.2	9171.2	24.0	1.19	1.19	1.19	1715.9	51.9
25-Mar-24	Sunny	297.5	2.9276	3.0467	0.1191	9171.2	9195.2	24.0	1.20	1.21	1.21	1736.4	68.6
27-Mar-24	Cloudy	296.6	2.9433	3.1121	0.1688	9195.2	9219.2	24.0	1.21	1.21	1.21	1741.8	96.9
												Min	51.9
												Max	122.4
												Average	77.4

Location FLN-DMS3 - House near Tong Hang

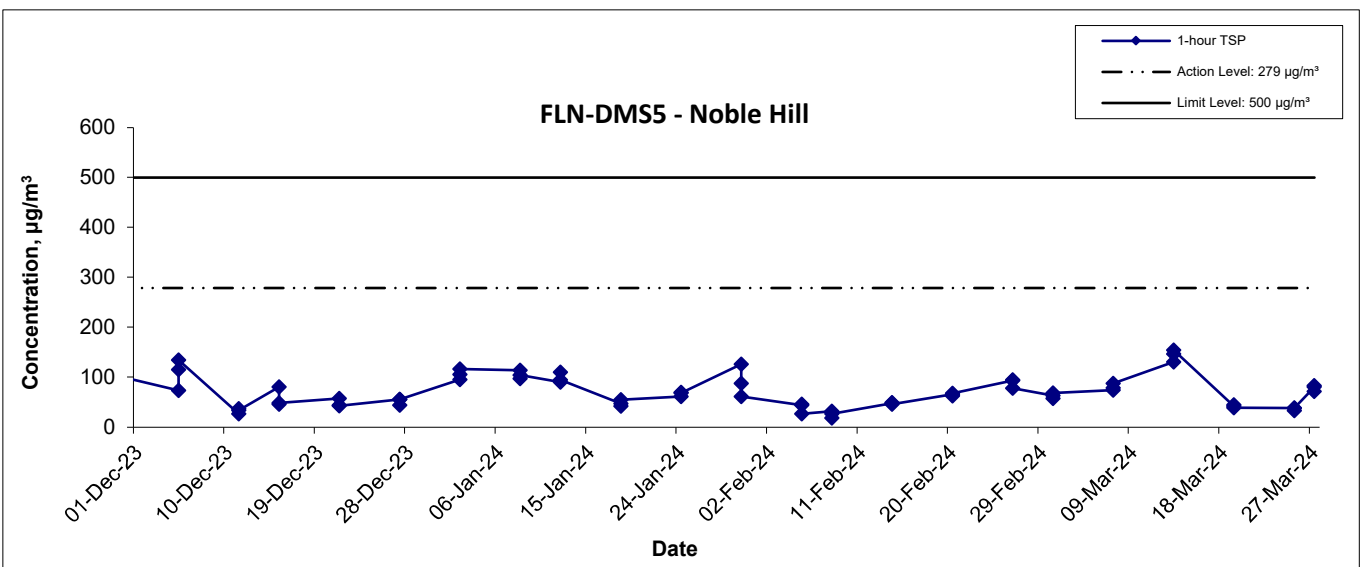
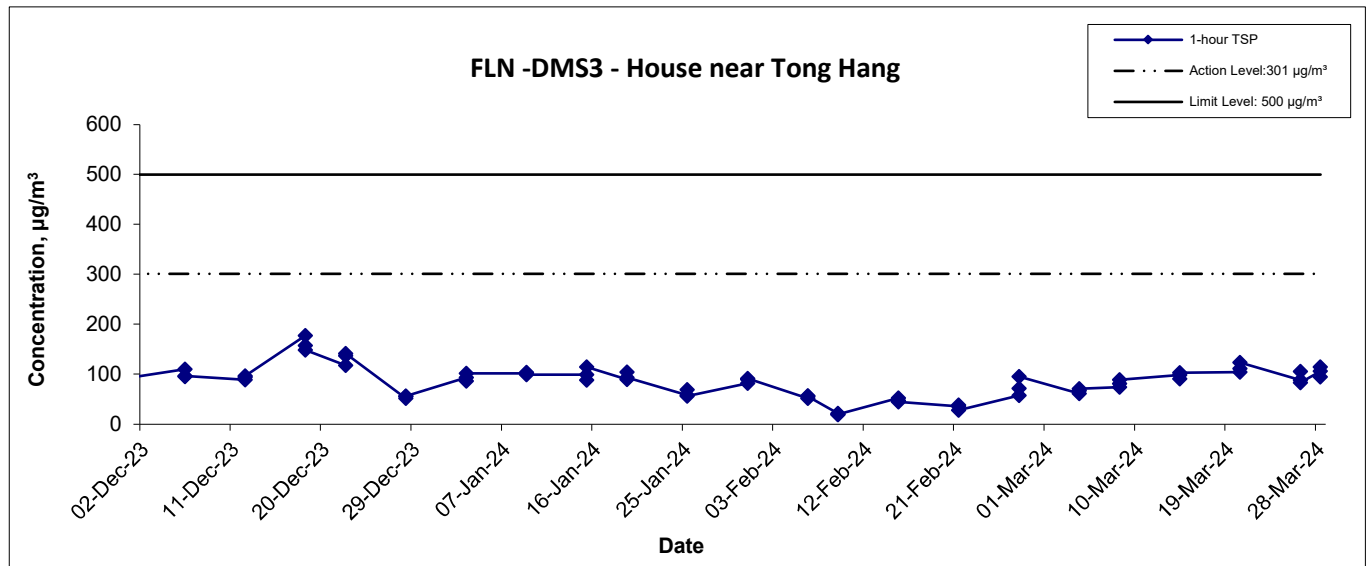
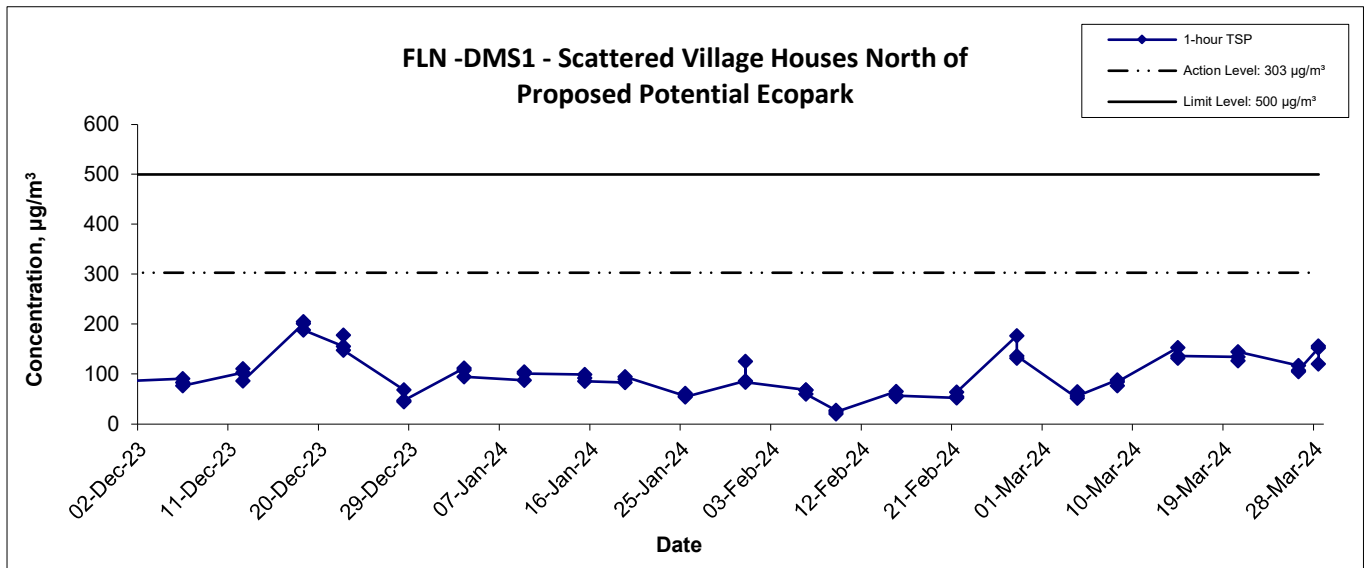
Start Date	Weather Condition	Air Temp. (K)	Filter Weight (g)		Particulate weight (g)	Elapse Time		Sampling Time(hrs.)	Flow Rate (m ³ /min.)		Av. flow (m ³ /min)	Total vol. (m ³)	Conc. (µg/m ³)
			Initial	Final		Initial	Final		Initial	Final			
1-Mar-24	Cloudy	288.6	2.9995	3.1878	0.1883	10261.7	10285.7	24.0	1.20	1.21	1.21	1736.9	108.4
7-Mar-24	Cloudy	294.5	2.9096	3.0280	0.1184	10285.7	10309.7	24.0	1.18	1.20	1.19	1711.5	69.2
13-Mar-24	Cloudy	289.1	2.9163	3.1132	0.1969	10309.7	10333.7	24.0	1.21	1.20	1.20	1735.0	113.5
19-Mar-24	Sunny	293.4	2.8616	2.9609	0.0993	10333.7	10357.7	24.0	1.19	1.20	1.19	1719.4	57.8
25-Mar-24	Sunny	297.5	2.9289	3.0005	0.0716	10357.7	10381.7	24.0	1.21	1.21	1.21	1743.0	41.1
27-Mar-24	Cloudy	296.6	2.9411	3.0169	0.0758	10381.7	10405.7	24.0	1.21	1.21	1.21	1748.2	43.4
												Min	41.1
												Max	113.5
												Average	72.2

Appendix E - 24-hour TSP Monitoring Results

Location FLN-DMS5A - Good View New Village			
Date	Time	Weather	Particulate Concentration ($\mu\text{g}/\text{m}^3$)
1-Mar-24	9:00	Cloudy	51.6
7-Mar-24	9:00	Cloudy	132.1
13-Mar-24	9:00	Cloudy	136.0
19-Mar-24	9:30	Cloudy	70.6
25-Mar-24	9:30	Sunny	53.6
27-Mar-24	8:30	Cloudy	82.7
		Minimum	51.6
		Maximum	136.0
		Average	87.8

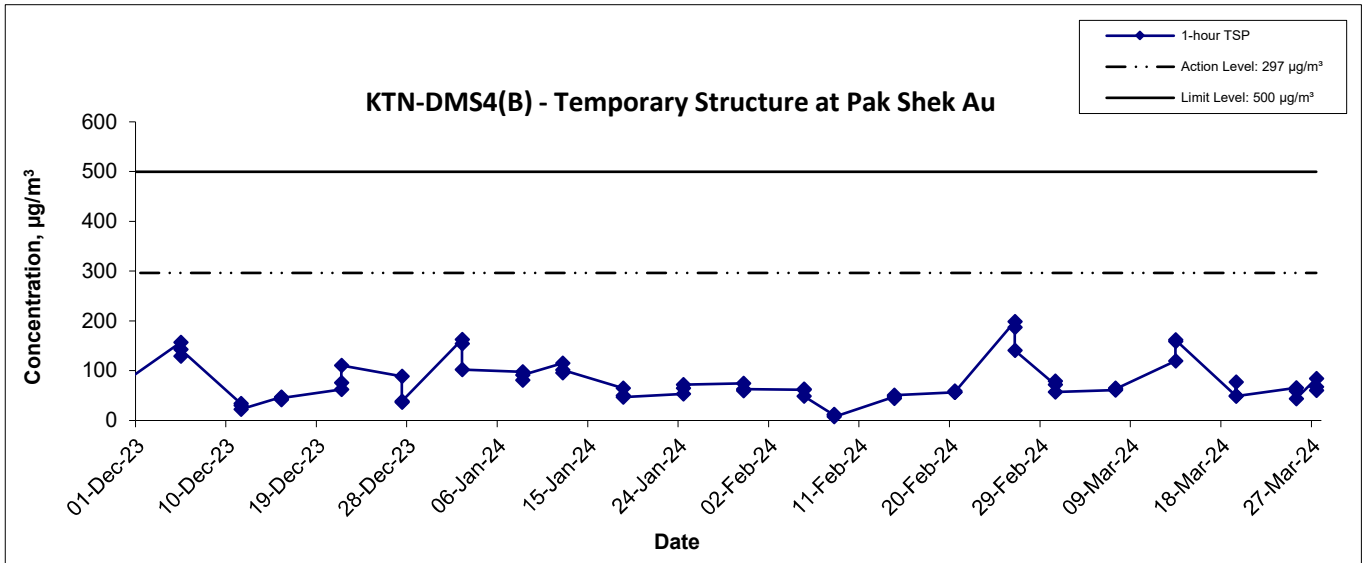
Location KTN-DMS4(B) - Temporary Structure at Pak Shek Au			
Date	Time	Weather	Particulate Concentration ($\mu\text{g}/\text{m}^3$)
1-Mar-24	9:00	Cloudy	51.8
7-Mar-24	9:00	Cloudy	73.6
13-Mar-24	9:00	Cloudy	125.8
19-Mar-24	9:10	Cloudy	38.0
25-Mar-24	10:00	Sunny	47.5
27-Mar-24	9:00	Cloudy	74.1
		Minimum	38.0
		Maximum	125.8
		Average	68.5


1-hr TSP Concentration Levels



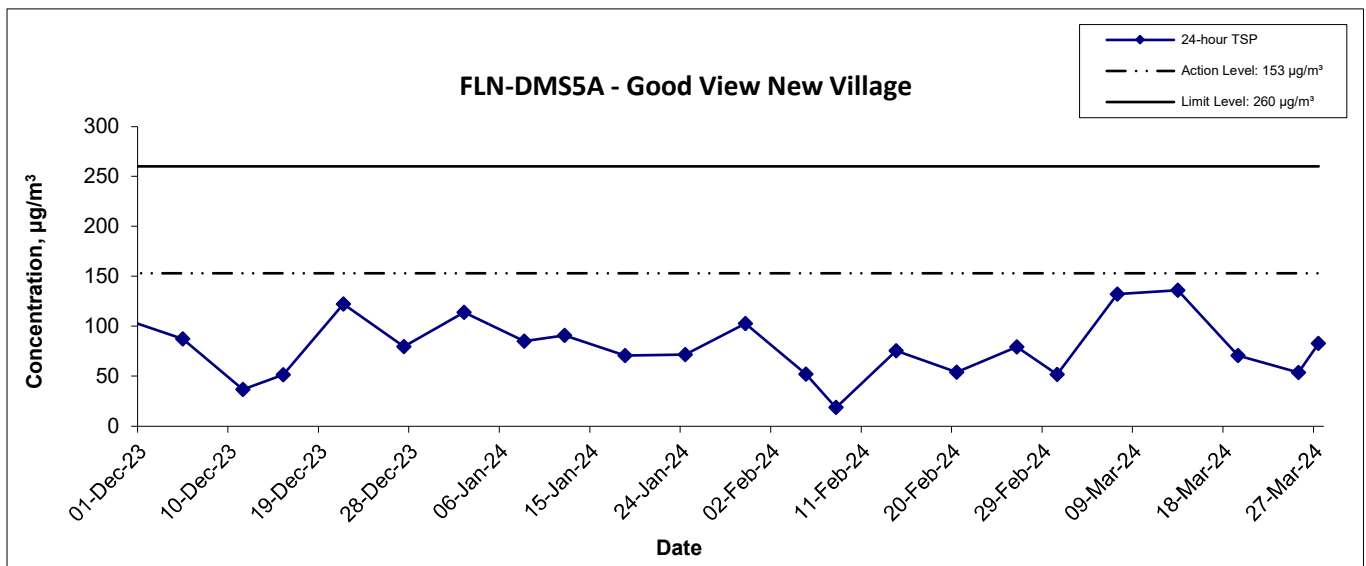
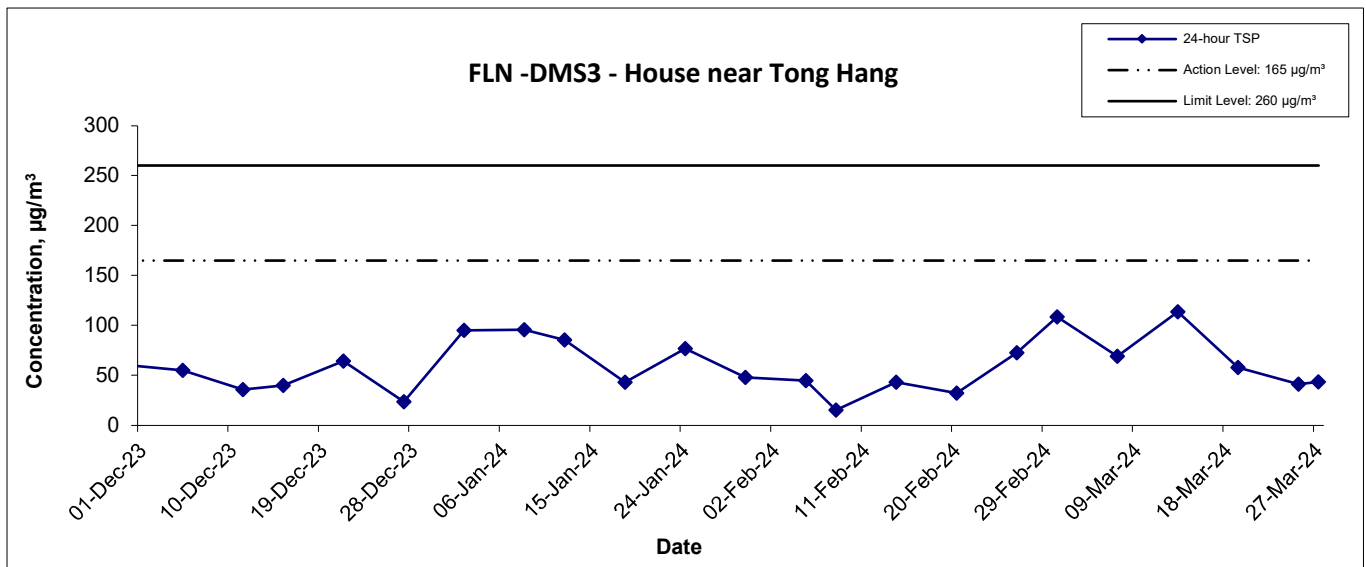
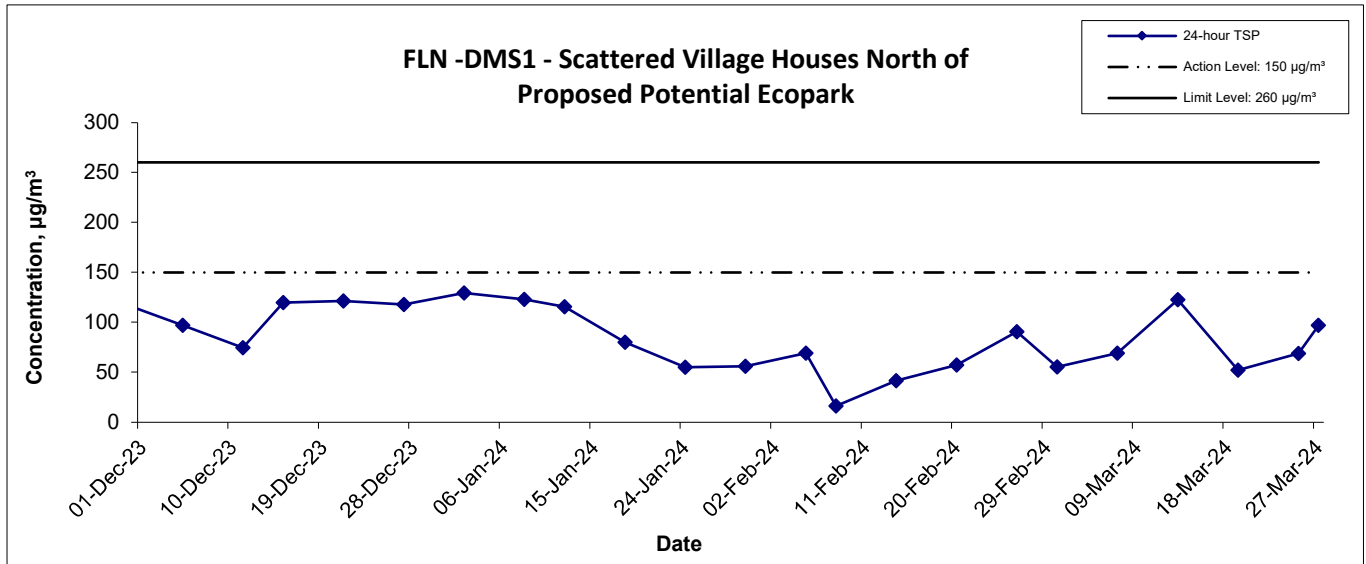
Title Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas Graphical Presentation of 1-hour TSP Monitoring Results	Scale	Project No.	
	Date	Appendix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


1-hr TSP Concentration Levels



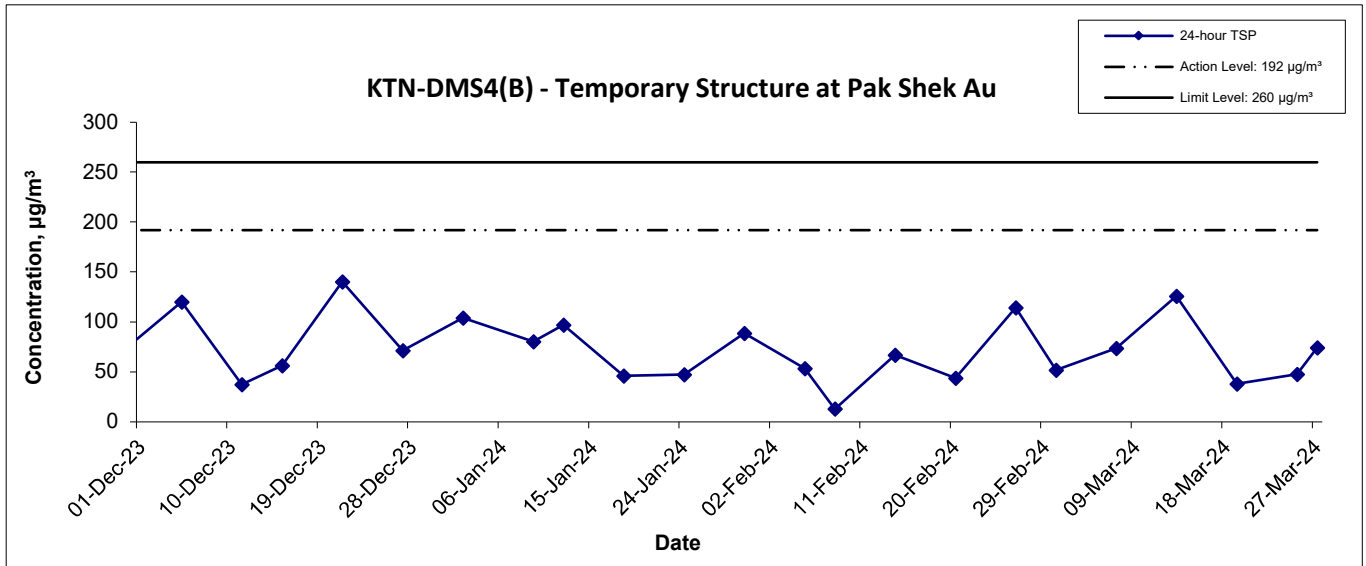
Title Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas Graphical Presentation of 1-hour TSP Monitoring Results	Scale	Project No.	 consulting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

24-hr TSP Concentration Levels

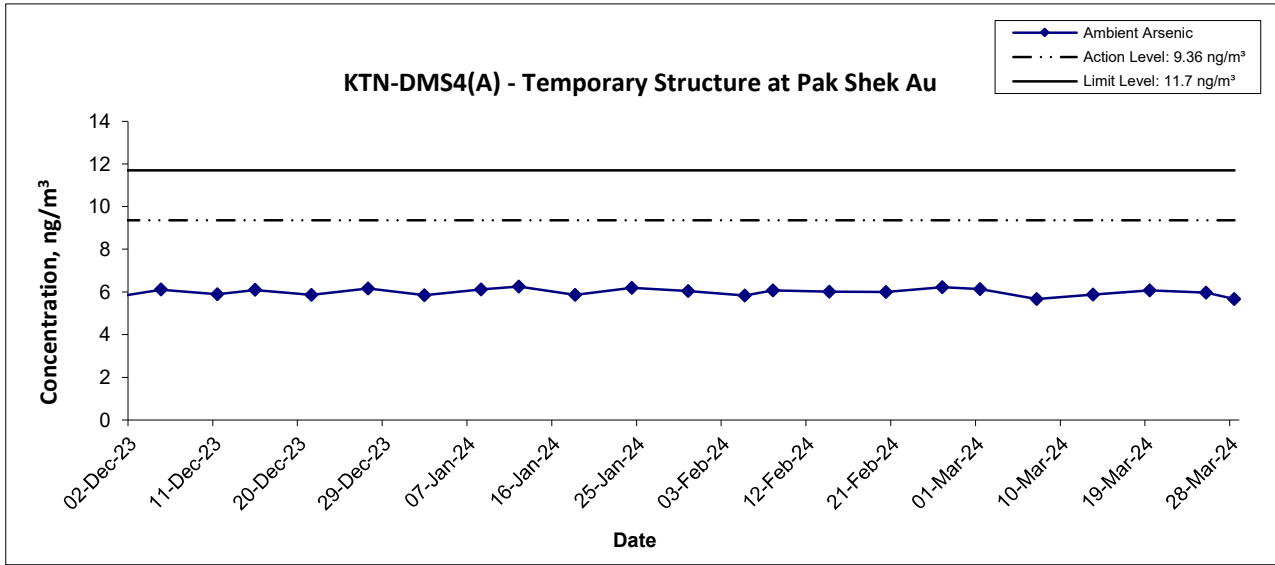



Title Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas Graphical Presentation of 24-hour TSP Monitoring Results	Scale	Project No.	 consulting . testing . research
	Date	Appendix	
	N.T.S	WMA20002	
	Mar 24	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)
1-Mar-24	9.7	1582.1	6.13
7-Mar-24	9.1	1604.1	5.67
13-Mar-24	9.3	1583.7	5.87
19-Mar-24	9.7	1596.9	6.07
25-Mar-24	9.6	1609.7	5.96
28-Mar-24	9.1	1604.9	5.67

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 N.T.S	Project No. WMA20002	 consulting . testing . research
	Date Mar 24	Appendix E	

TEST REPORT**APPLICANT:** Wellab (EM&A)
RM 1808, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong KongReport No.: 39914
Date of Issue: 2024-03-08
Date Received: 2024-03-04
Date Tested: 2024-03-04
Date Completed: 2024-03-08**ATTN:** Ms Ivy Tam

Page: 1 of 1

Sample Description : 1 sample as received from customer said to be quartz filter
Laboratory No. : 39914
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	230525/038
Sample No.	39914-1
Arsenic (µg)	9.7

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.:	QC39914
Date of Issue:	2024-03-08
Date Received:	2024-03-04
Date Tested:	2024-03-04
Date Completed:	2024-03-08

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 (%)	114	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 (%)	106	70-130

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 39914

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


PATRICK TSE
General Manager

TEST REPORT

Report No.:	QC39914
Date of Issue:	2024-03-08
Date Received:	2024-03-04
Date Tested:	2024-03-04
Date Completed:	2024-03-08
Page:	2 of 2

QC report:

Matrix Spike

Parameter	Matrix Spike	Acceptance
Arsenic (%)	12	75-125

Filter Duplicate

Parameter	Filter Duplicate	Acceptance
Arsenic (%)	8	RPD ≤ 20%

Serial dilution check

Parameter	Serial dilution check	Acceptance
Arsenic (%)	104	90-110

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 39914

*****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.: 39915
Date of Issue: 2024-03-14
Date Received: 2024-03-08
Date Tested: 2024-03-08
Date Completed: 2024-03-14

ATTN: Ms Ivy Tam

Page: 1 of 1

Sample Description : 1 sample as received from customer said to be quartz filter
Laboratory No. : 39915
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	230525/039
Sample No.	39915-1
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.:	QC39915
Date of Issue:	2024-03-14
Date Received:	2024-03-08
Date Tested:	2024-03-08
Date Completed:	2024-03-14

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 (%)	108	80-120

Calibration check

Parameter	CCV	Acceptance
Arsenic (%)	100	90-110

Interference check solution A

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

Interference check solution AB

Parameter	ICS AB	Acceptance
Arsenic (%)	106	70-130

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 39915

PREPARED AND CHECKED BY:

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


PATRICK TSE
General Manager

TEST REPORT

Report No.:	QC39915
Date of Issue:	2024-03-14
Date Received:	2024-03-08
Date Tested:	2024-03-08
Date Completed:	2024-03-14
Page:	2 of 2

QC report:
Matrix Spike

Parameter	Matrix Spike	Acceptance
Arsenic (%)	110	75-125

Filter Duplicate

Parameter	Filter Duplicate	Acceptance
Arsenic (%)	15	RPD \leq 20%

Serial dilution check

Parameter	Serial dilution check	Acceptance
Arsenic (%)	95	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 39915

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

TEST REPORT**APPLICANT:** Wellab (EM&A)
RM 1808, Technology Park,
18 On Lai Street,
Shatin, N.T., Hong KongReport No.: 40023
Date of Issue: 2024-03-20
Date Received: 2024-03-14
Date Tested: 2024-03-14
Date Completed: 2024-03-20**ATTN:** Ms Ivy Tam

Page: 1 of 1

Sample Description : 1 sample as received from customer said to be quartz filter
Laboratory No. : 40023
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	230525/040
Sample No.	40023-1
Arsenic (µg)	9.3

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 KongReport No.: QC40023
Date of Issue: 2024-03-20
Date Received: 2024-03-14
Date Tested: 2024-03-14
Date Completed: 2024-03-20

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 (%)	89	80-120

Calibration check

Parameter	CCV	Acceptance
Arsenic (%)	94	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 (%)	112	70-130

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 40023

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


PATRICK TSE
 General Manager

TEST REPORT

Report No.:	QC40023
Date of Issue:	2024-03-20
Date Received:	2024-03-14
Date Tested:	2024-03-14
Date Completed:	2024-03-20

Page: 2 of 2

QC report:**Matrix Spike**

Parameter	Matrix Spike	Acceptance
Arsenic (%)	103	75-125

Filter Duplicate

Parameter	Filter Duplicate	Acceptance
Arsenic (%)	4	RPD \leq 20%

Serial dilution check

Parameter	Serial dilution check	Acceptance
Arsenic (%)	91	90-110

Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 40023

*****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.:	40024
Date of Issue:	2024-03-26
Date Received:	2024-03-20
Date Tested:	2024-03-20
Date Completed:	2024-03-26

ATTN: Ms Ivy Tam

Page: 1 of 1

Sample Description : 1 sample as received from customer said to be quartz filter
 Laboratory No. : 40024
 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	230525/041
Sample No.	40024-1
Arsenic (µg)	9.7

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.: QC40024
Date of Issue: 2024-03-26
Date Received: 2024-03-20
Date Tested: 2024-03-20
Date Completed: 2024-03-26

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 (%)	104	80-120

Calibration check

Parameter	CCV	Acceptance
Arsenic (%)	93	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 (%)	88	70-130

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 40024

PREPARED AND CHECKED BY:

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


PATRICK TSE
General Manager

TEST REPORT

Report No.:	QC40024
Date of Issue:	2024-03-26
Date Received:	2024-03-20
Date Tested:	2024-03-20
Date Completed:	2024-03-26

Page: 2 of 2

QC report:**Matrix Spike**

Parameter	Matrix Spike	Acceptance
Arsenic (%)	96	75-125

Filter Duplicate

Parameter	Filter Duplicate	Acceptance
Arsenic (%)	12	RPD \leq 20%

Serial dilution check

Parameter	Serial dilution check	Acceptance
Arsenic (%)	97	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 40024

*****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.:	40025
Date of Issue:	2024-04-03
Date Received:	2024-03-26
Date Tested:	2024-03-26
Date Completed:	2024-04-03

ATTN: Ms Ivy Tam

Page: 1 of 1

Sample Description : 1 sample as received from customer said to be quartz filter
 Laboratory No. : 40025
 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	230525/042
Sample No.	40025-1
Arsenic (µg)	9.6

Remarks: 1) < = less than

2) Results for the test material reported as received

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

PREPARED AND CHECKED BY:

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


PATRICK TSE
 General Manager

TEST REPORT

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

Report No.:	QC40025
Date of Issue:	2024-04-03
Date Received:	2024-03-26
Date Tested:	2024-03-26
Date Completed:	2024-04-03
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 (%)	111	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

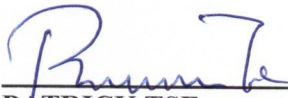
Interference check solution AB

Parameter	ICS AB	Acceptance
Arsenic (%)	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 40025

PREPARED AND CHECKED BY:

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


PATRICK TSE
General Manager

TEST REPORT

Report No.:	QC40025
Date of Issue:	2024-04-03
Date Received:	2024-03-26
Date Tested:	2024-03-26
Date Completed:	2024-04-03
Page:	2 of 2

QC report:**Matrix Spike**

Parameter	Matrix Spike	Acceptance
Arsenic (%)	89	75-125

Filter Duplicate

Parameter	Filter Duplicate	Acceptance
Arsenic (%)	2	RPD \leq 20%

Serial dilution check

Parameter	Serial dilution check	Acceptance
Arsenic (%)	103	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 40025

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

TEST REPORT

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

Report No.: 40026
Date of Issue: 2024-04-08
Date Received: 2024-04-03
Date Tested: 2024-04-03
Date Completed: 2024-04-08

ATTN: Ms Ivy Tam

Page: 1 of 1

Sample Description : 1 sample as received from customer said to be quartz filter
Laboratory No. : 40026
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	230525/043
Sample No.	40026-1
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.:	QC40026
Date of Issue:	2024-04-08
Date Received:	2024-04-03
Date Tested:	2024-04-03
Date Completed:	2024-04-08

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 (%)	108	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 (%)	90	70-130

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 40026

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


PATRICK TSE
General Manager

TEST REPORT

Report No.:	QC40026
Date of Issue:	2024-04-08
Date Received:	2024-04-03
Date Tested:	2024-04-03
Date Completed:	2024-04-08

Page: 2 of 2

QC report:**Matrix Spike**

Parameter	Matrix Spike	Acceptance
Arsenic (%)	112	75-125

Filter Duplicate

Parameter	Filter Duplicate	Acceptance
Arsenic (%)	6	RPD \leq 20%

Serial dilution check

Parameter	Serial dilution check	Acceptance
Arsenic (%)	98	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 40026

*****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}
8-Mar-24	Cloudy	13:40	67.2	70.7	60.1	67.4	69.9
		13:45	65.9	68.4	59.6		
		13:50	67.4	69.5	61.0		
		13:55	68.6	72.4	59.2		
		14:00	68.4	73.0	59.7		
14:05	66.1	67.6	59.5				
14-Mar-24	Cloudy	13:10	64.9	69.1	56.6	67.7	
		13:15	69.5	71.8	57.1		
		13:20	68.1	71.6	59.9		
		13:25	67.7	70.7	60.0		
		13:30	66.9	70.0	59.3		
13:35	68.0	71.7	60.9				
20-Mar-24	Sunny	10:45	65.5	68.9	59.1	67.3	
		10:50	68.5	71.3	60.8		
		10:55	64.9	68.0	56.8		
		11:00	66.7	70.5	60.4		
		11:05	69.8	73.1	60.9		
11:10	66.6	70.1	59.0				
26-Mar-24	Cloudy	14:30	67.2	70.3	59.5	68.9	
		14:35	68.6	72.4	62.5		
		14:40	69.2	72.6	62.2		
		14:45	68.0	71.0	62.7		
		14:50	70.6	72.0	62.9		
14:55	69.0	72.9	61.3				

Location CP-FLN-NMS2 - Scattered Village House in Tong Hang (Existing)							
Date	Weather	Time	Unit: dB (A) (5-min)			Average	Baseline Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
8-Mar-24	Cloudy	15:00	67.1	67.6	66.6	67.0	59.6
		15:05	66.9	67.4	66.5		
		15:10	67.1	67.8	66.4		
		15:15	67.0	67.6	66.5		
		15:20	66.8	67.3	66.2		
15:25	66.9	67.5	66.3				
14-Mar-24	Cloudy	11:20	56.9	57.4	56.4	56.9	
		11:25	56.6	57.0	56.2		
		11:30	56.9	57.3	56.3		
		11:35	56.6	57.0	56.1		
		11:40	57.0	57.6	56.2		
11:45	57.3	57.4	56.2				
20-Mar-24	Sunny	13:20	57.4	58.9	55.7	63.6	
		13:25	63.0	65.9	57.0		
		13:30	64.8	66.0	63.8		
		13:35	64.6	65.3	63.7		
		13:40	64.3	65.0	63.8		
13:45	64.3	65.0	63.6				
26-Mar-24	Cloudy	15:20	68.5	69.3	67.7	68.7	
		15:25	68.5	69.1	67.7		
		15:30	68.7	69.1	67.7		
		15:35	68.7	69.1	67.8		
		15:40	68.8	69.7	67.9		
15:45	68.7	69.5	67.9				

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}
7-Mar-24	Cloudy	09:50	56.2	59.4	45.8	56.0	58.6
		09:55	57.5	61.4	47.0		
		10:00	58.6	62.5	45.1		
		10:05	52.4	54.7	44.7		
		10:10	53.6	58.1	45.2		
10:15	54.2	58.1	46.1				
13-Mar-24	Cloudy	10:20	57.7	59.4	55.9	57.8	
		10:25	56.7	58.2	55.6		
		10:30	58.4	58.7	55.4		
		10:35	59.5	60.2	55.4		
		10:40	57.1	58.5	55.5		
10:45	56.4	58.2	54.7				
19-Mar-24	Cloudy	09:10	58.8	61.2	47.7	62.0	
		09:15	62.1	65.9	50.1		
		09:20	67.4	71.1	50.2		
		09:25	58.5	60.3	48.7		
		09:30	56.0	59.2	52.3		
09:35	56.4	59.4	51.4				
25-Mar-24	Sunny	13:00	53.1	57.1	45.7	53.5	
		13:05	51.5	55.8	45.7		
		13:10	55.6	58.2	46.4		
		13:15	55.2	59.0	47.5		
		13:20	51.0	53.7	46.9		
13:25	52.3	56.0	46.7				

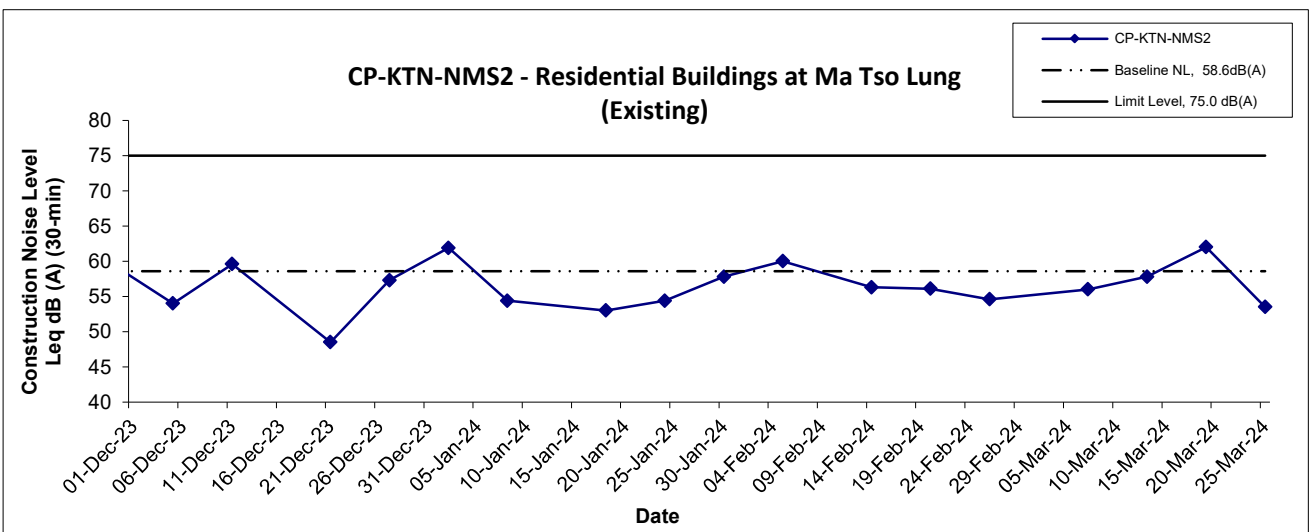
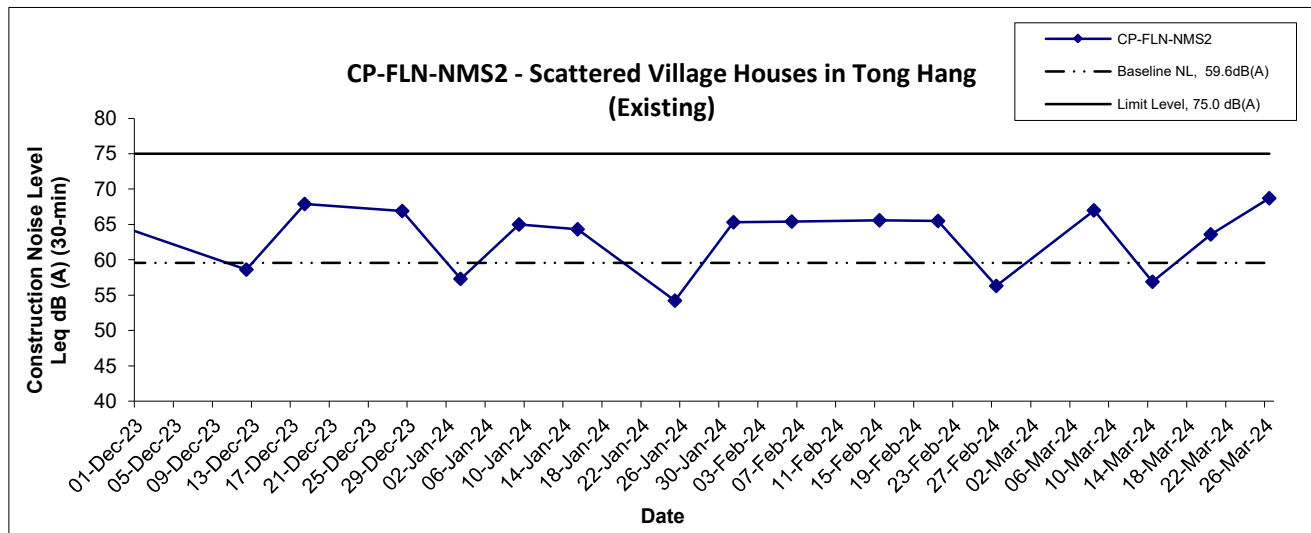
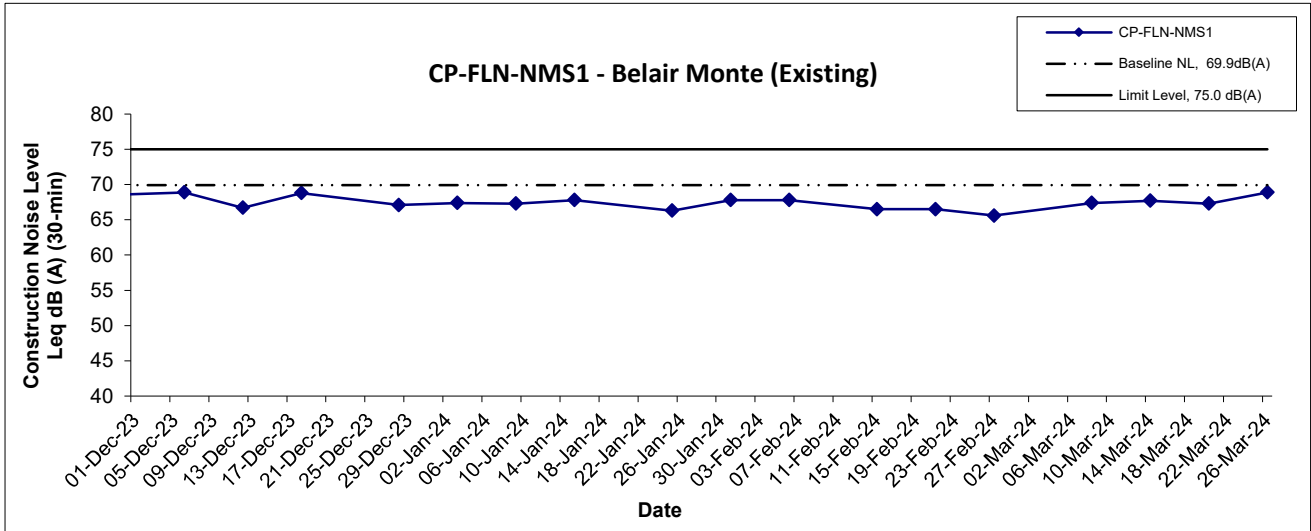
Location CP-KTN-NMS3 - Fung Kong Garden (Existing)							
Date	Weather	Time	Unit: dB (A) (5-min)			Average	Baseline Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
7-Mar-24	Cloudy	10:00	59.5	60.8	58.5	61.3	51.6
		10:05	60.0	61.3	58.4		
		10:10	60.6	63.0	58.1		
		10:15	60.0	61.6	58.6		
		10:20	60.6	63.3	58.5		
10:25	64.6	66.7	58.1				
13-Mar-24	Cloudy	11:05	55.6	58.4	52.9	54.5	
		11:10	53.6	56.4	49.7		
		11:15	55.9	59.9	50.1		
		11:20	54.5	58.4	49.1		
		11:25	54.3	57.1	50.4		
11:30	52.5	54.8	49.9				
19-Mar-24	Cloudy	09:55	49.0	50.8	47.2	49.7	
		10:00	48.0	49.3	46.8		
		10:05	52.9	52.5	44.7		
		10:10	48.7	49.6	46.9		
		10:15	48.4	49.6	47.1		
10:20	48.8	50.2	47.5				
25-Mar-24	Sunny	13:45	61.1	63.6	56.3	59.5	
		13:50	58.6	62.9	55.8		
		13:55	59.5	59.8	55.1		
		14:00	59.5	59.8	54.3		
		14:05	59.0	59.6	55.2		
14:10	58.9	60.1	55.0				

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}
7-Mar-24	Cloudy	11:30	53.2	54.4	51.1	55.1	57.2
		11:35	55.5	57.9	52.0		
		11:40	57.8	61.1	52.0		
		11:45	53.3	55.0	51.3		
		11:50	53.5	54.6	51.0		
11:55	55.3	57.0	50.8				
13-Mar-24	Cloudy	13:50	59.9	60.7	56.9	59.2	
		13:55	59.0	61.1	56.9		
		14:00	59.1	60.8	57.2		
		14:05	59.9	61.7	57.9		
		14:10	58.0	59.4	56.4		
14:15	59.1	60.5	57.6				
19-Mar-24	Sunny	13:10	58.2	59.5	53.2	56.2	
		13:15	55.8	58.3	51.7		
		13:20	55.3	57.8	51.4		
		13:25	53.1	56.1	49.5		
		13:30	54.2	56.8	50.0		
13:35	58.1	60.8	53.7				
25-Mar-24	Sunny	15:45	63.3	65.1	54.7	62.0	
		15:50	56.9	59.1	53.7		
		15:55	61.9	62.6	54.3		
		16:00	61.5	63.6	57.7		
		16:05	63.6	64.7	58.9		
16:10	62.3	64.7	58.7				

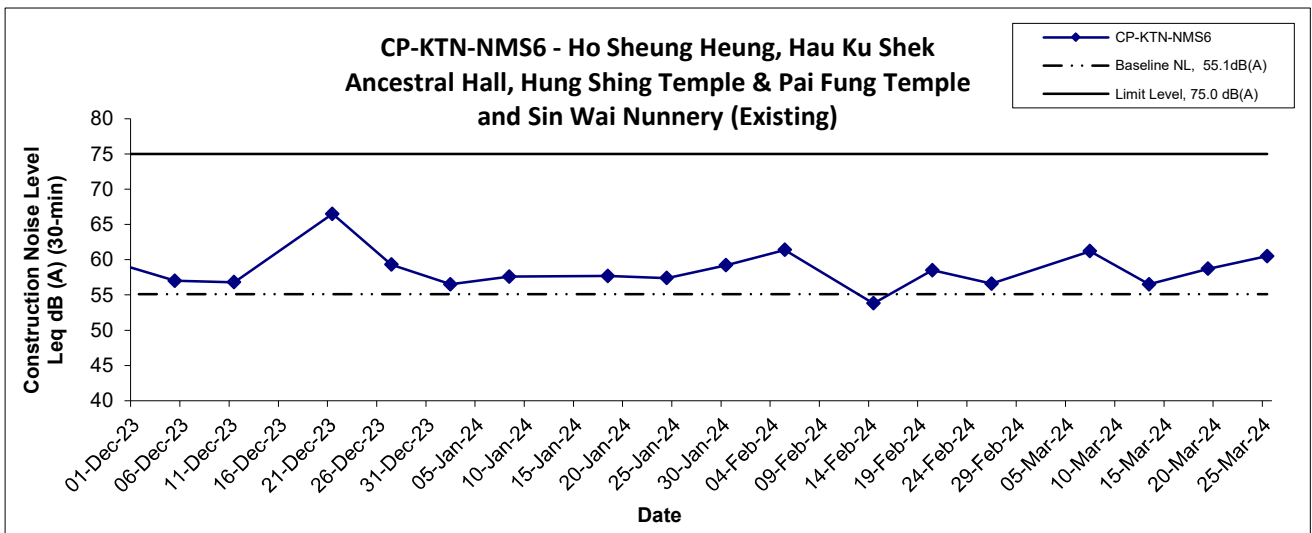
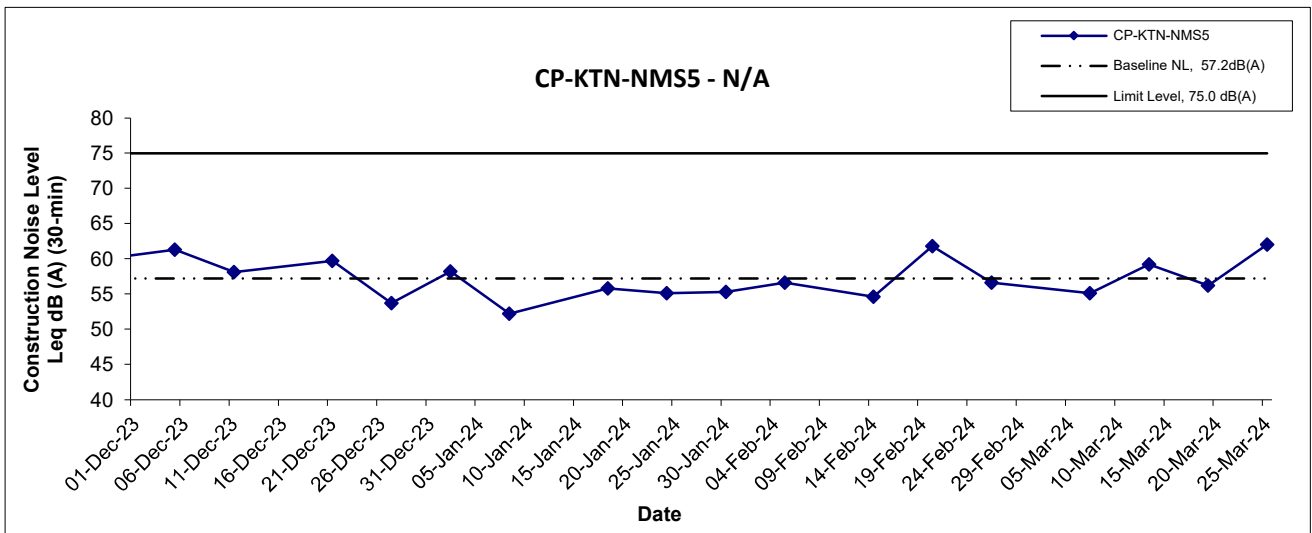
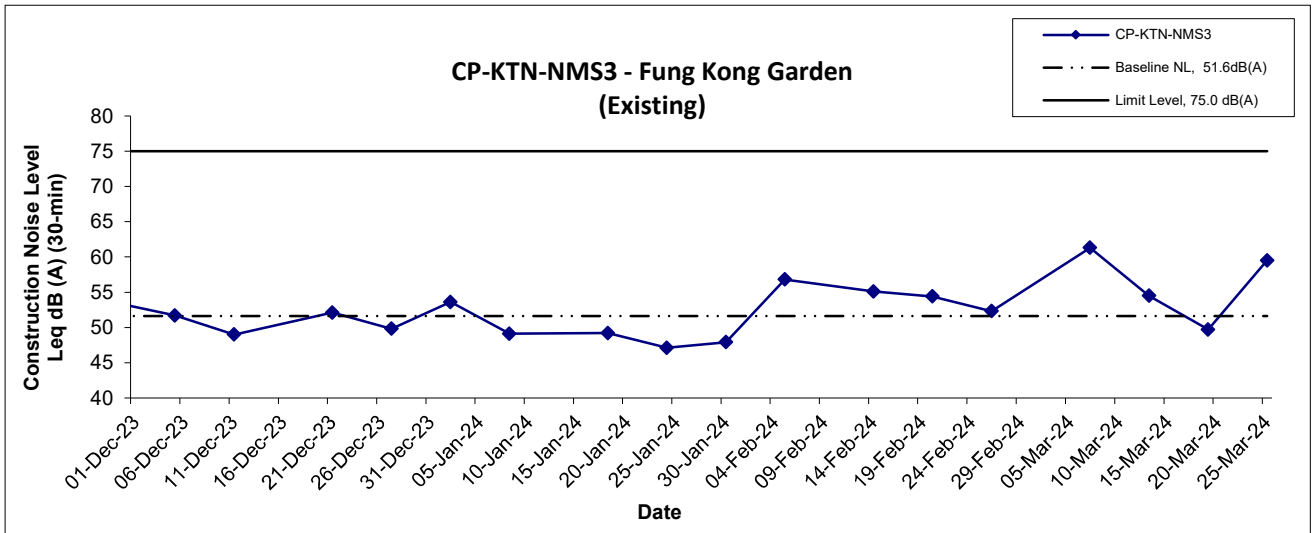
Location CP-KTN-NMS6 - Ho Sheung Heung, Hau Ku Shek Ancestral Hall, Hung Shing Temple & Pai Fung Temple and Sin Wai Nunnery (Existing)							
Date	Weather	Time	Unit: dB (A) (5-min)			Average	Baseline Level
			L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
7-Mar-24	Cloudy	10:40	60.1	63.9	53.6	61.2	55.1
		10:45	58.5	61.6	54.1		
		10:50	61.3	64.8	54.4		
		10:55	59.4	62.5	54.1		
		11:00	59.8	63.4	54.2		
11:05	64.9	66.7	59.1				
13-Mar-24	Cloudy	13:00	56.0	57.6	54.2	56.5	
		13:05	57.6	58.5	54.4		
		13:10	55.0	55.9	54.1		
		13:15	55.2	56.3	54.1		
		13:20	57.5	58.4	54.4		
13:25	57.2	58.1	54.3				
19-Mar-24	Cloudy	11:05	55.2	58.9	46.6	58.7	
		11:10	59.5	62.4	49.1		
		11:15	55.6	58.5	49.7		
		11:20	60.6	63.0	49.3		
		11:25	57.5	58.6	49.0		
11:30	60.5	60.6	50.3				
25-Mar-24	Cloudy	10:15	61.4	65.1	54.4	60.5	
		10:20	59.3	60.7	57.9		
		10:25	59.7	61.6	57.9		
		10:30	60.5	62.8	58.0		
		10:35	61.1	63.0	58.2		
10:40	60.6	63.5	56.2				

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 N.T.S	Project No. WMA20002	
	Date Mar 24	Appendix F	

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	
	Date Mar 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-Mar-24	Cloudy	10:06	Middle	0.1	20.1 20.1	20.1	7.9 7.9	7.9	0.2 0.2	0.2	72.2 72.0	72.1	6.5 6.5	6.5	5.2 5.1	5.2	5 4	4.5	2 2	2.0
4-Mar-24	Cloudy	09:34	Middle	0.1	14.8 14.8	14.8	7.7 7.6	7.7	0.1 0.1	0.1	67.5 67.3	67.4	6.8 6.8	6.8	7.3 7.2	7.3	4 4	4.0	15 12	13.5
6-Mar-24	Cloudy	09:15	Middle	0.1	14.6 14.6	14.6	7.6 7.6	7.6	0.2 0.2	0.2	59.8 59.6	59.7	6.1 6.1	6.1	8.3 8.3	8.3	3 3	3.0	9 11	10.0
8-Mar-24	Cloudy	10:10	Middle	0.1	21.8 21.8	21.8	7.7 7.7	7.7	0.6 0.6	0.6	74.6 74.2	74.4	6.5 6.5	6.5	9.1 9.1	9.1	5 6	5.5	11 9	10.0
11-Mar-24	Cloudy	09:11	Middle	0.1	21.0 21.0	21.0	7.6 7.6	7.6	0.2 0.2	0.2	70.1 69.9	70.0	6.2 6.2	6.2	10.4 10.3	10.4	7 8	7.5	2 2	2.0
13-Mar-24	Sunny	09:06	Middle	0.2	19.4 19.4	19.4	7.5 7.5	7.5	0.1 0.1	0.1	66.9 66.8	66.9	6.2 6.1	6.2	4.6 4.5	4.6	4 2	3.0	6 7	6.5
15-Mar-24	Cloudy	12:45	Middle	0.1	21.3 21.3	21.3	7.9 7.9	7.9	0.2 0.2	0.2	63.8 64.0	63.9	5.7 5.7	5.7	10.9 11.3	11.1	11 10	10.5	11 9	10.0
18-Mar-24	Cloudy	11:17	Middle	0.2	23.4 23.4	23.4	7.1 7.1	7.1	0.1 0.1	0.1	68.9 69.1	69.0	5.9 5.9	5.9	10.0 9.9	10.0	18 17	17.5	7 8	7.5
20-Mar-24	Cloudy	15:12	Middle	0.1	21.4 21.4	21.4	7.2 7.2	7.2	0.2 0.2	0.2	79.6 79.2	79.4	7.0 7.0	7.0	9.4 9.4	9.4	9 9	9.0	11 9	10.0
22-Mar-24	Cloudy	11:47	Middle	0.2	23.2 23.2	23.2	7.2 7.2	7.2	0.1 0.1	0.1	56.1 56.1	56.1	4.8 4.8	4.8	8.1 8.3	8.2	6 6	6.0	12 10	11.0
25-Mar-24	Sunny	10:00	Middle	0.2	25.5 25.5	25.5	7.4 7.4	7.4	0.1 0.1	0.1	76.3 76.3	76.3	6.3 6.3	6.3	4.9 5.1	5.0	7 8	7.5	11 9	10.0
27-Mar-24	Fine	12:19	Middle	0.2	25.4 25.4	25.4	8.3 8.3	8.3	0.2 0.2	0.2	82.5 82.4	82.5	6.8 6.8	6.8	5.1 5.1	5.1	10 10	10.0	13 11	12.0

Contract No. NDO 04/2019

Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas

Water Quality Monitoring Results

Location: 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-Mar-24	Cloudy	10:21	Middle	0.4	19.0 19.0	19.0	8.0 8.0	8.0	0.1 0.1	0.1	83.6 83.4	83.5	7.8 7.7	7.8	9.8 9.8	9.8	5 5	5.0	3 3	3.0
4-Mar-24	Cloudy	09:54	Middle	0.3	15.5 15.5	15.5	7.9 7.9	7.9	0.1 0.1	0.1	80.7 80.6	80.7	8.1 8.0	8.1	18.7 18.4	18.6	7 8	7.5	2 3	2.5
6-Mar-24	Cloudy	09:27	Middle	0.4	15.7 15.7	15.7	7.8 7.8	7.8	0.1 0.1	0.1	72.5 72.3	72.4	7.2 7.2	7.2	12.4 12.4	12.4	10 12	11.0	10 10	10.0
8-Mar-24	Cloudy	10:25	Middle	1.1	21.3 21.2	21.3	7.5 7.5	7.5	0.3 0.3	0.3	70.6 71.0	70.8	6.3 6.3	6.3	19.3 19.3	19.3	16 18	17.0	2 3	2.5
11-Mar-24	Cloudy	09:25	Middle	1	21.4 21.4	21.4	7.6 7.6	7.6	0.3 0.3	0.3	76.0 75.8	75.9	6.7 6.7	6.7	20.4 20.3	20.4	70 71	70.5	1 2	1.5
13-Mar-24	Sunny	09:20	Middle	0.1	20.1 20.1	20.1	7.7 7.7	7.7	0.1 0.1	0.1	82.2 82.1	82.2	7.5 7.5	7.5	15.7 15.8	15.8	11 12	11.5	5 4	4.5
15-Mar-24	Cloudy	12:59	Middle	0.6	21.7 21.7	21.7	7.7 7.7	7.7	0.3 0.3	0.3	72.1 72.3	72.2	6.3 6.4	6.4	33.4 33.2	33.3	32 30	31.0	1 1	1.0
18-Mar-24	Cloudy	11:29	Middle	0.3	22.9 22.9	22.9	7.2 7.2	7.2	0.2 0.2	0.2	74.0 72.5	73.3	6.4 6.2	6.3	26.1 25.8	26.0	32 30	31.0	4 4	4.0
20-Mar-24	Cloudy	15:35	Middle	0.4	21.2 21.2	21.2	7.4 7.4	7.4	0.3 0.3	0.3	70.8 70.4	70.6	6.3 6.2	6.3	13.0 13.1	13.1	7 6	6.5	9 8	8.5
22-Mar-24	Cloudy	11:30	Middle	0.3	23.7 23.7	23.7	7.3 7.3	7.3	0.1 0.1	0.1	73.5 73.7	73.6	6.2 6.2	6.2	22.0 21.5	21.8	12 13	12.5	11 12	11.5
25-Mar-24	Sunny	10:19	Middle	0.4	25.8 25.8	25.8	7.3 7.3	7.3	0.2 0.2	0.2	78.3 78.7	78.5	6.4 6.4	6.4	46.1 45.9	46.0	36 38	37.0	7 7	7.0
27-Mar-24	Fine	12:37	Middle	0.5	25.8 25.8	25.8	8.3 8.3	8.3	0.3 0.3	0.3	79.2 79.0	79.1	6.4 6.4	6.4	27.1 27.4	27.3	31 31	31.0	12 10	11.0

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

Location: NTR-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-Mar-24	Cloudy	11:26	Middle	0.3	19.8 19.8	19.8	7.6 7.6	7.6	0.2 0.2	0.2	85.6 85.6	85.6	7.8 7.8	7.8	6.3 6.3	6.3	4 3	3.5
4-Mar-24	Cloudy	11:04	Middle	0.2	15.3 15.3	15.3	7.8 7.8	7.8	0.2 0.2	0.2	85.8 85.6	85.7	8.6 8.6	8.6	10.0 10.1	10.1	6 7	6.5
6-Mar-24	Cloudy	10:36	Middle	0.2	15.6 15.6	15.6	7.8 7.8	7.8	0.2 0.2	0.2	75.0 74.9	75.0	7.5 7.5	7.5	6.8 6.8	6.8	6 7	6.5
8-Mar-24	Cloudy	11:41	Middle	0.2	23.6 23.6	23.6	7.4 7.4	7.4	0.1 0.1	0.1	110.3 110.4	110.4	9.4 9.4	9.4	8.5 8.5	8.5	8 10	9.0
11-Mar-24	Cloudy	10:21	Middle	0.2	23.7 23.7	23.7	7.4 7.4	7.4	0.1 0.1	0.1	93.7 93.8	93.8	7.9 7.9	7.9	7.9 8.0	8.0	12 11	11.5
13-Mar-24	Sunny	10:38	Middle	0.2	20.8 20.8	20.8	7.3 7.3	7.3	0.1 0.1	0.1	104.7 104.8	104.8	9.4 9.4	9.4	10.9 10.8	10.9	12 12	12.0
15-Mar-24	Cloudy	14:29	Middle	0.2	21.5 21.5	21.5	7.6 7.6	7.6	0.1 0.1	0.1	100.7 100.8	100.8	8.9 8.9	8.9	8.3 8.3	8.3	8 8	8.0
18-Mar-24	Cloudy	10:46	Middle	0.2	22.0 22.0	22.0	7.2 7.2	7.2	0.1 0.1	0.1	96.5 96.5	96.5	8.4 8.4	8.4	12.6 12.6	12.6	10 10	10.0
20-Mar-24	Cloudy	16:35	Middle	0.2	21.8 21.8	21.8	7.6 7.5	7.6	0.1 0.1	0.1	101.9 102.0	102.0	9.0 9.0	9.0	6.8 6.8	6.8	6 6	6.0
22-Mar-24	Cloudy	10:29	Middle	0.2	22.4 22.4	22.4	7.3 7.3	7.3	0.1 0.1	0.1	109.3 109.3	109.3	9.5 9.5	9.5	4.8 4.8	4.8	3 3	3.0
25-Mar-24	Sunny	11:51	Middle	0.2	26.3 26.3	26.3	7.3 7.3	7.3	0.1 0.1	0.1	115.8 116.0	115.9	9.3 9.4	9.4	5.2 5.2	5.2	9 9	9.0
27-Mar-24	Fine	13:55	Middle	0.2	25.5 25.5	25.5	7.9 7.9	7.9	0.1 0.1	0.1	113.2 113.2	113.2	9.3 9.3	9.3	12.5 12.6	12.6	8 9	8.5

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

Location: NTR-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-Mar-24	Cloudy	10:55	Middle	0.3	19.2 19.2	19.2	7.6 7.6	7.6	0.1 0.1	0.1	63.6 63.5	63.6	5.9 5.9	5.9	5.8 5.8	5.8	<2.5 <2.5	<2.5
4-Mar-24	Cloudy	10:32	Middle	0.3	14.8 14.8	14.8	7.6 7.6	7.6	0.2 0.2	0.2	72.2 72.1	72.2	7.3 7.3	7.3	7.9 7.9	7.9	5 6	5.5
6-Mar-24	Cloudy	10:13	Middle	0.3	14.9 14.9	14.9	7.4 7.4	7.4	0.2 0.2	0.2	71.2 71.0	71.1	7.2 7.2	7.2	7.0 7.0	7.0	7 6	6.5
8-Mar-24	Cloudy	11:14	Middle	0.2	20.8 20.8	20.8	7.3 7.3	7.3	0.1 0.1	0.1	80.8 80.8	80.8	7.2 7.2	7.2	7.4 7.5	7.5	4 5	4.5
11-Mar-24	Cloudy	09:55	Middle	0.3	20.8 20.8	20.8	7.3 7.3	7.3	0.1 0.1	0.1	80.6 80.6	80.6	7.2 7.2	7.2	8.8 8.8	8.8	8 8	8.0
13-Mar-24	Sunny	09:57	Middle	0.6	20.5 20.5	20.5	7.4 7.4	7.4	0.1 0.1	0.1	67.8 67.9	67.9	6.1 6.1	6.1	12.0 12.0	12.0	12 10	11.0
15-Mar-24	Cloudy	13:19	Middle	0.7	20.7 20.7	20.7	7.6 7.6	7.6	0.1 0.1	0.1	67.5 67.9	67.7	6.1 6.1	6.1	6.9 6.9	6.9	7 8	7.5
18-Mar-24	Cloudy	09:36	Middle	0.5	22.8 22.8	22.8	7.3 7.3	7.3	0.2 0.2	0.2	73.7 73.6	73.7	6.3 6.3	6.3	10.3 10.2	10.3	9 10	9.5
20-Mar-24	Cloudy	16:11	Middle	0.3	20.1 20.1	20.1	7.9 7.9	7.9	0.1 0.1	0.1	82.8 82.6	82.7	7.5 7.5	7.5	7.1 7.1	7.1	6 5	5.5
22-Mar-24	Cloudy	10:54	Middle	0.3	22.1 22.1	22.1	7.8 7.9	7.9	0.1 0.1	0.1	67.2 67.5	67.4	5.9 5.9	5.9	327.1 326.8	327.0	330 380	355.0
25-Mar-24	Sunny	11:01	Middle	0.2	26.2 26.2	26.2	7.6 7.6	7.6	0.1 0.1	0.1	110.5 110.6	110.6	8.9 8.9	8.9	163.9 176.2	170.1	145 126	135.5
27-Mar-24	Fine	13:02	Middle	0.4	24.2 24.2	24.2	8.6 8.6	8.6	0.1 0.1	0.1	96.0 96.0	96.0	8.1 8.1	8.1	24.5 24.1	24.3	31 28	29.5

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: SHST-IS2

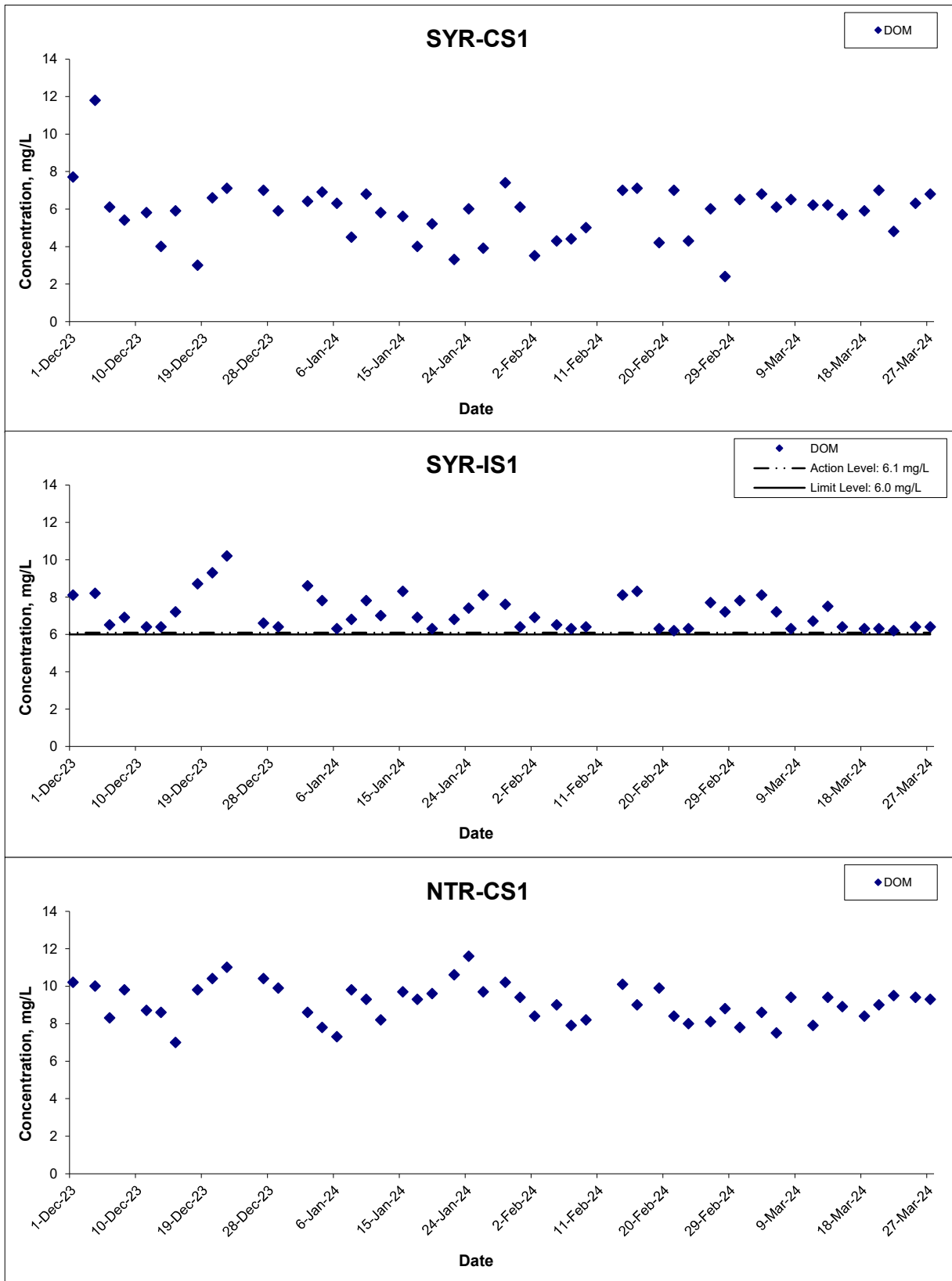
Date	Weather Condition	Start Time	Sampling Depth (m)		Temperature (°C)		pH		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)		Suspended Solids (mg/L)	
					Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
1-Mar-24	Cloudy	10:41	Middle	0.2	18.6 18.6	18.6	7.8 7.8	7.8	0.1 0.1	0.1	76.4 76.3	76.4	7.1 7.1	7.1	5.3 5.3	5.3	3 3	3.0
4-Mar-24	Cloudy	10:22	Middle	0.2	15.1 15.1	15.1	7.7 7.7	7.7	0.1 0.1	0.1	73.9 73.7	73.8	7.4 7.4	7.4	7.1 7.1	7.1	4 5	4.5
6-Mar-24	Cloudy	09:55	Middle	0.2	15.1 15.1	15.1	7.6 7.6	7.6	0.1 0.1	0.1	78.9 78.7	78.8	7.9 7.9	7.9	6.1 6.1	6.1	6 5	5.5
8-Mar-24	Cloudy	10:52	Middle	0.2	21.4 21.4	21.4	7.5 7.5	7.5	0.1 0.1	0.1	80.6 80.5	80.6	7.1 7.1	7.1	7.1 7.0	7.1	7 7	7.0
11-Mar-24	Cloudy	09:44	Middle	0.2	20.9 20.9	20.9	7.4 7.4	7.4	0.1 0.1	0.1	80.9 80.7	80.8	7.2 7.2	7.2	8.6 8.6	8.6	7 7	7.0
13-Mar-24	Sunny	09:46	Middle	0.2	18.8 18.8	18.8	7.3 7.3	7.3	0.1 0.1	0.1	81.0 81.6	81.3	7.5 7.6	7.6	10.0 10.0	10.0	4 3	3.5
15-Mar-24	Cloudy	13:41	Middle	0.2	20.4 20.3	20.4	7.8 7.8	7.8	0.1 0.1	0.1	80.0 80.1	80.1	7.2 7.2	7.2	5.6 5.6	5.6	3 <2.5	2.8
18-Mar-24	Cloudy	09:51	Middle	0.2	21.4 21.4	21.4	7.2 7.2	7.2	0.1 0.1	0.1	82.4 82.0	82.2	7.3 7.3	7.3	5.1 5.1	5.1	<2.5 3	2.8
20-Mar-24	Cloudy	15:55	Middle	0.2	21.1 21.1	21.1	7.5 7.5	7.5	0.2 0.2	0.2	81.7 81.6	81.7	7.3 7.3	7.3	6.7 6.7	6.7	4 4	4.0
22-Mar-24	Cloudy	11:04	Middle	0.2	21.9 21.9	21.9	7.3 7.3	7.3	0.1 0.1	0.1	82.8 82.7	82.8	7.3 7.2	7.3	4.9 4.9	4.9	<2.5 <2.5	<2.5
25-Mar-24	Sunny	11:14	Middle	0.2	24.2 24.2	24.2	7.2 7.2	7.2	0.1 0.1	0.1	85.8 86.1	86.0	7.2 7.2	7.2	5.7 5.7	5.7	3 4	3.5
27-Mar-24	Fine	13:15	Middle	0.2	23.6 23.6	23.6	8.3 8.3	8.3	0.1 0.1	0.1	86.7 86.5	86.6	7.4 7.3	7.4	10.1 10.5	10.3	7 7	7.0

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

Location: 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-Mar-24	Cloudy	11:38	Middle	0.3	19.6 19.6	19.6	7.8 7.8	7.8	0.1 0.1	0.1	95.8 95.9	95.9	8.8 8.8	8.8	6.2 6.2	6.2	7 8	7.5
4-Mar-24	Cloudy	11:16	Middle	0.2	15.6 15.6	15.6	7.8 7.8	7.8	0.1 0.1	0.1	88.4 88.5	88.5	8.8 8.8	8.8	11.5 11.4	11.5	11 10	10.5
6-Mar-24	Cloudy	10:45	Middle	0.2	15.6 15.6	15.6	8.0 8.0	8.0	0.1 0.1	0.1	90.2 89.9	90.1	9.0 8.9	9.0	6.1 6.1	6.1	10 9	9.5
8-Mar-24	Cloudy	11:52	Middle	0.2	22.7 22.7	22.7	7.7 7.7	7.7	0.1 0.1	0.1	100.3 100.3	100.3	8.7 8.7	8.7	9.7 9.7	9.7	10 11	10.5
11-Mar-24	Cloudy	10:33	Middle	0.2	22.9 22.9	22.9	7.6 7.6	7.6	0.1 0.1	0.1	102.6 103.5	103.1	8.8 8.9	8.9	7.4 7.4	7.4	9 10	9.5
13-Mar-24	Sunny	10:20	Middle	0.2	20.0 20.0	20.0	7.5 7.5	7.5	0.1 0.1	0.1	96.6 96.8	96.7	8.8 8.8	8.8	9.0 8.9	9.0	11 13	12.0
15-Mar-24	Cloudy	14:19	Middle	0.2	21.1 21.1	21.1	7.8 7.8	7.8	0.1 0.1	0.1	100.3 99.9	100.1	8.9 8.9	8.9	9.8 9.5	9.7	11 10	10.5
18-Mar-24	Cloudy	10:28	Middle	0.2	21.8 21.8	21.8	7.4 7.4	7.4	0.2 0.2	0.2	101.7 102.2	102.0	8.9 9.0	9.0	13.3 13.3	13.3	13 11	12.0
20-Mar-24	Cloudy	16:43	Middle	0.2	21.6 21.6	21.6	7.4 7.4	7.4	0.1 0.1	0.1	98.8 98.8	98.8	8.7 8.7	8.7	7.0 6.9	7.0	3 3	3.0
22-Mar-24	Cloudy	10:13	Middle	0.2	21.7 21.7	21.7	7.6 7.6	7.6	0.1 0.1	0.1	99.3 99.9	99.6	8.7 8.8	8.8	7.5 7.5	7.5	5 6	5.5
25-Mar-24	Sunny	11:44	Middle	0.2	25.5 25.5	25.5	7.6 7.6	7.6	0.1 0.1	0.1	106.3 106.8	106.6	8.7 8.7	8.7	55.8 54.9	55.4	116 117	116.5
27-Mar-24	Fine	13:49	Middle	0.2	24.3 24.3	24.3	8.3 8.3	8.3	0.1 0.1	0.1	103.9 104.2	104.1	8.7 8.7	8.7	13.4 13.2	13.3	9 8	8.5

Dissolved Oxygen (Middle)



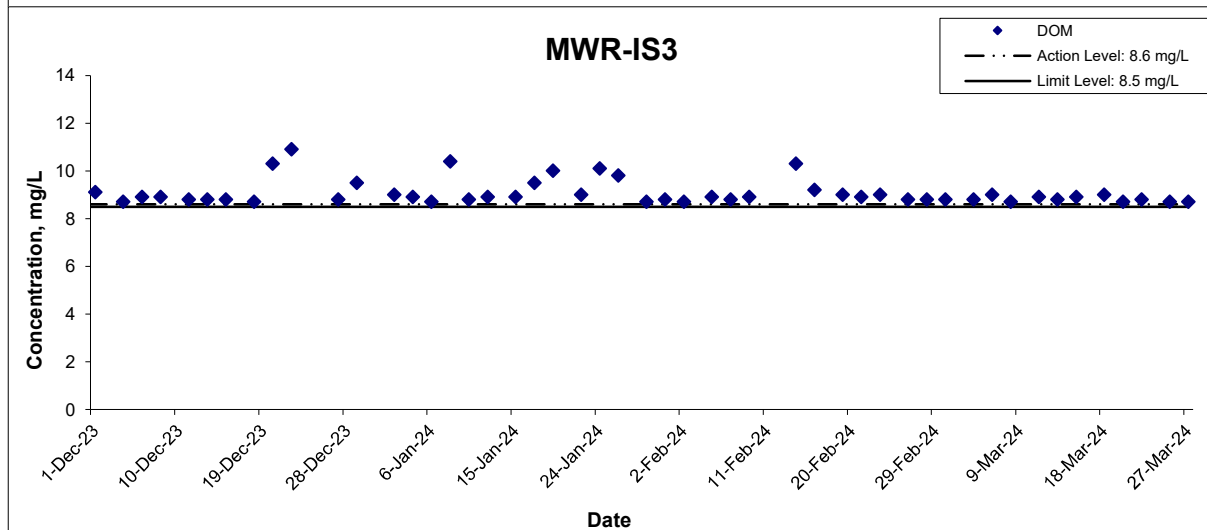
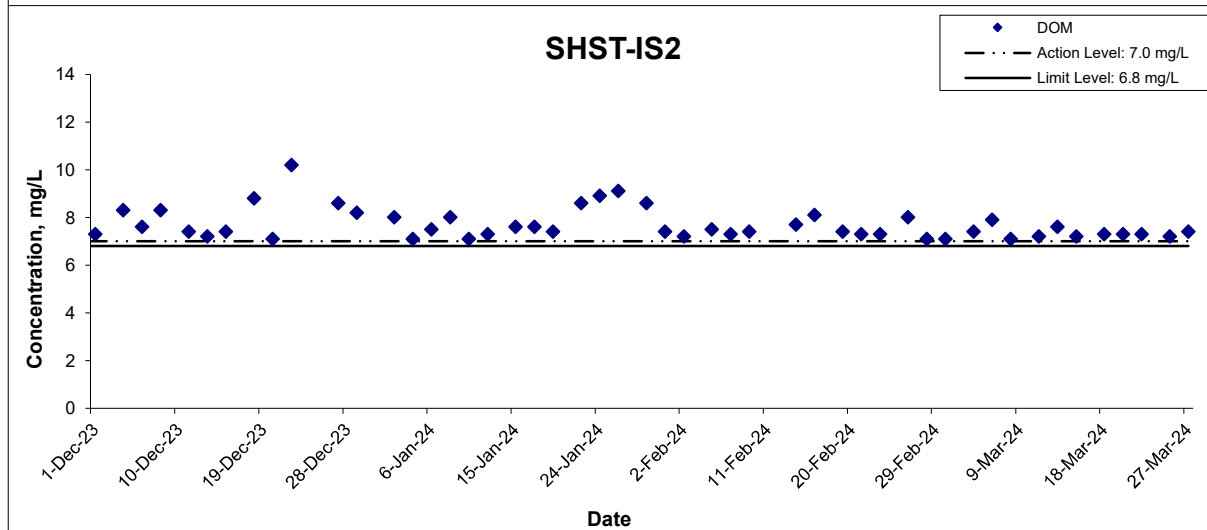
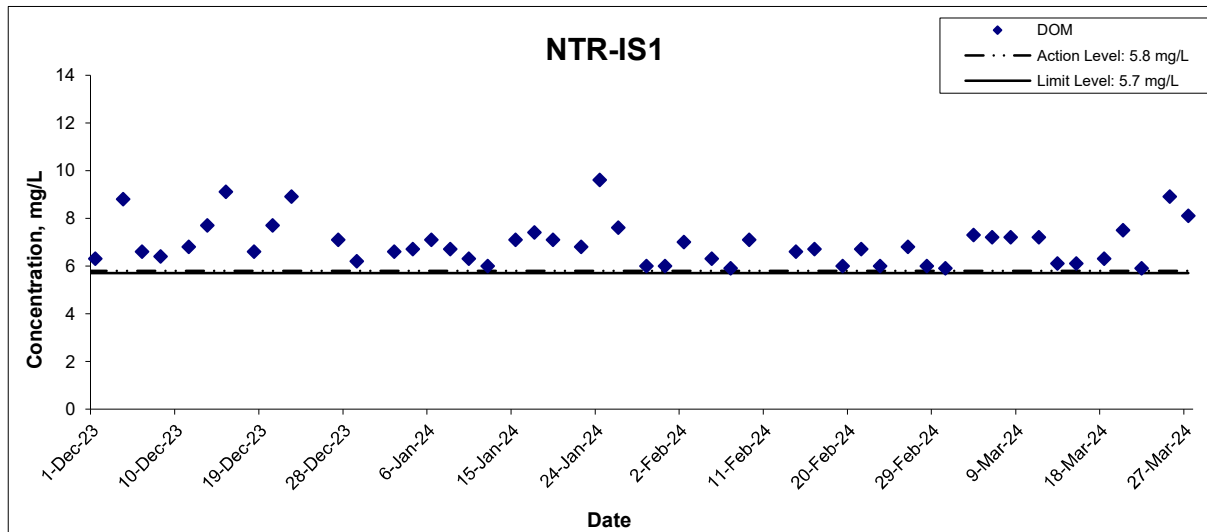
Title
 Contract No. NDO 04/2019
 Advance and First Stage Works of Kwu Tung North and Fanling
 North New Development Areas
 Graphical Presentation of Water Quality Monitoring
 Results

Scale
 N.T.S
Date
 Mar 24

Project No.
 WMA20002
Appendix
 G

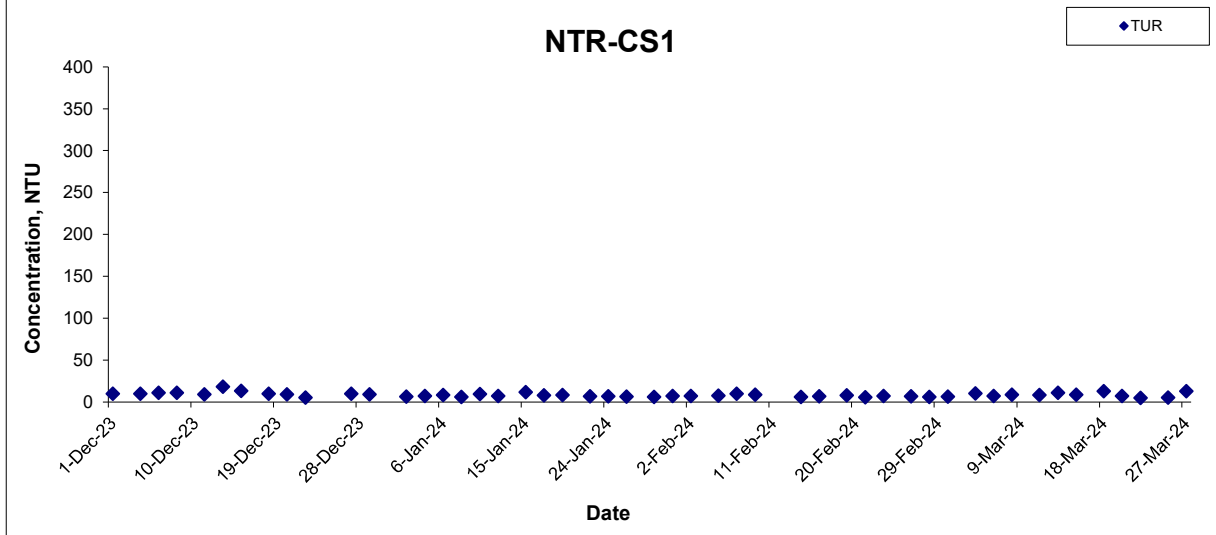
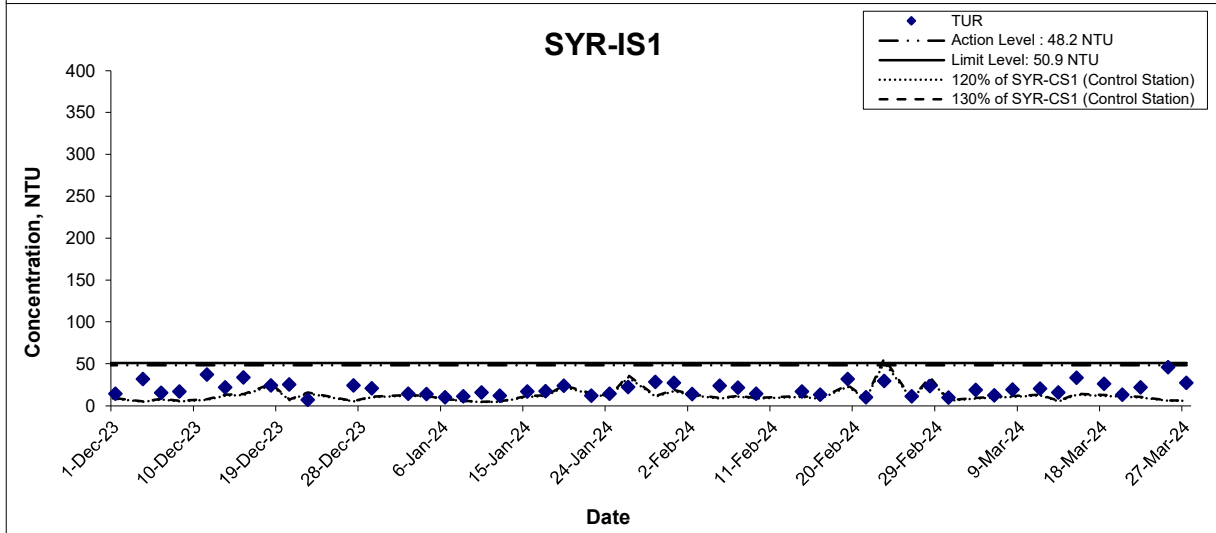
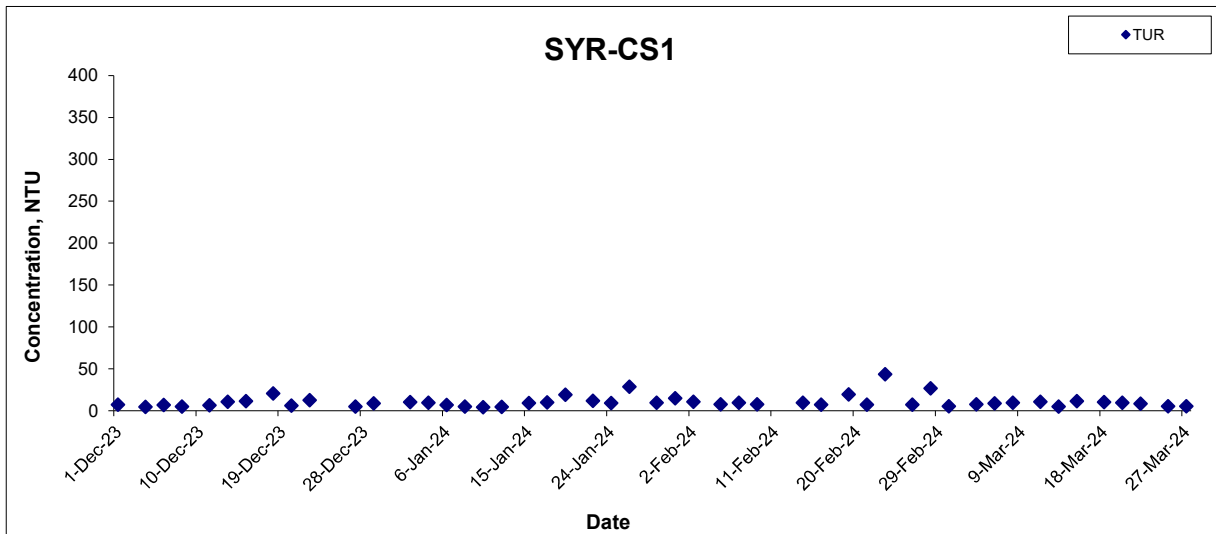


Dissolved Oxygen (Middle)



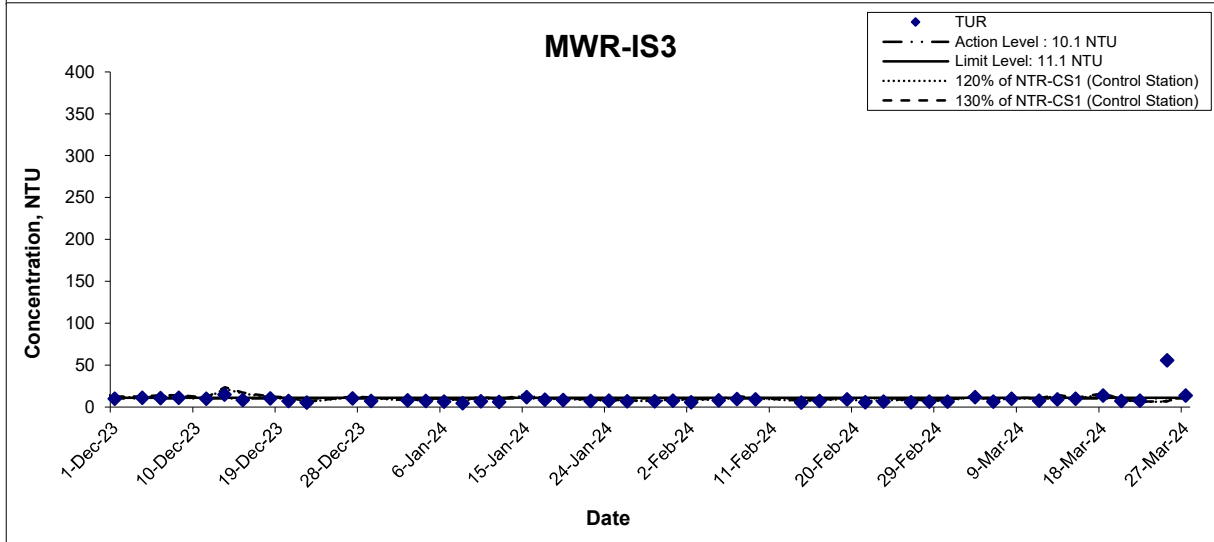
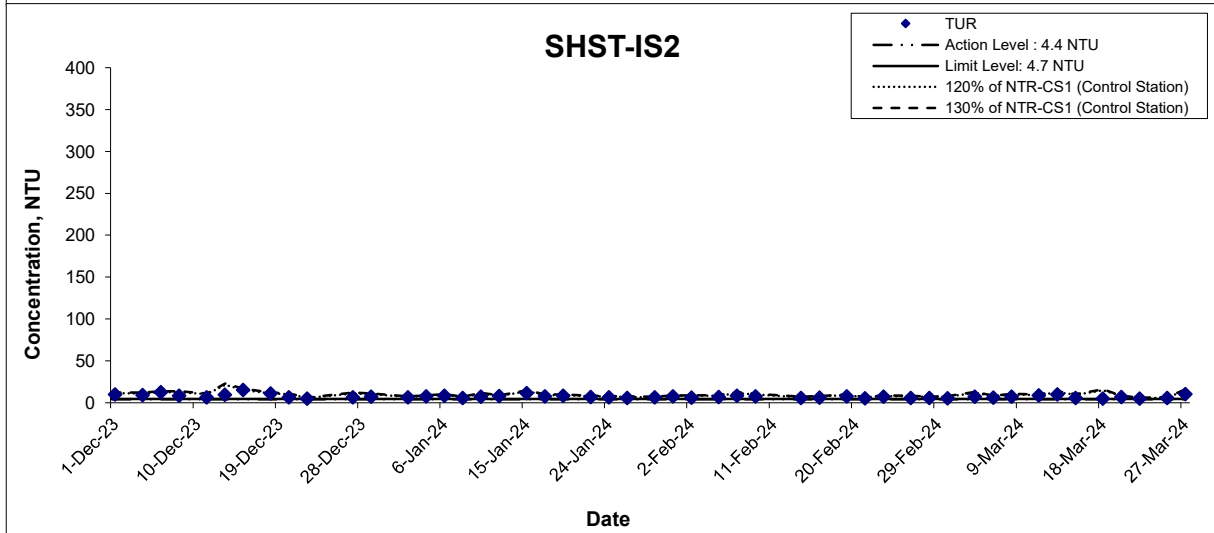
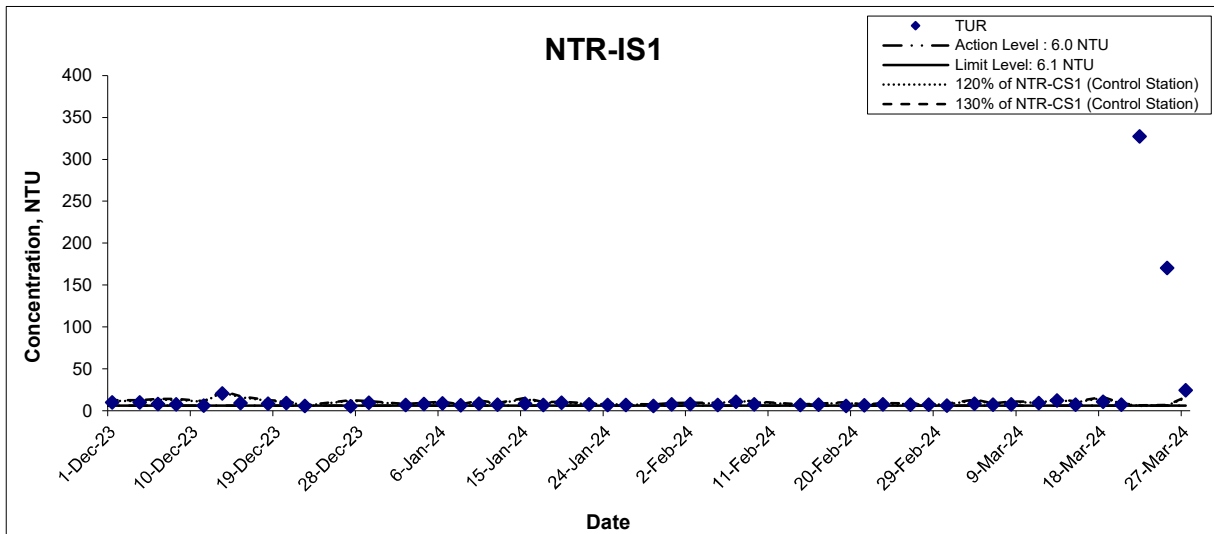
Title Contract No. NDO 04/2019 Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas Graphical Presentation of Water Quality Monitoring Results	Scale N.T.S	Project No. WMA20002	consulting . testing . research
	Date Mar 24	Appendix G	

Turbidity (Depth-averaged)



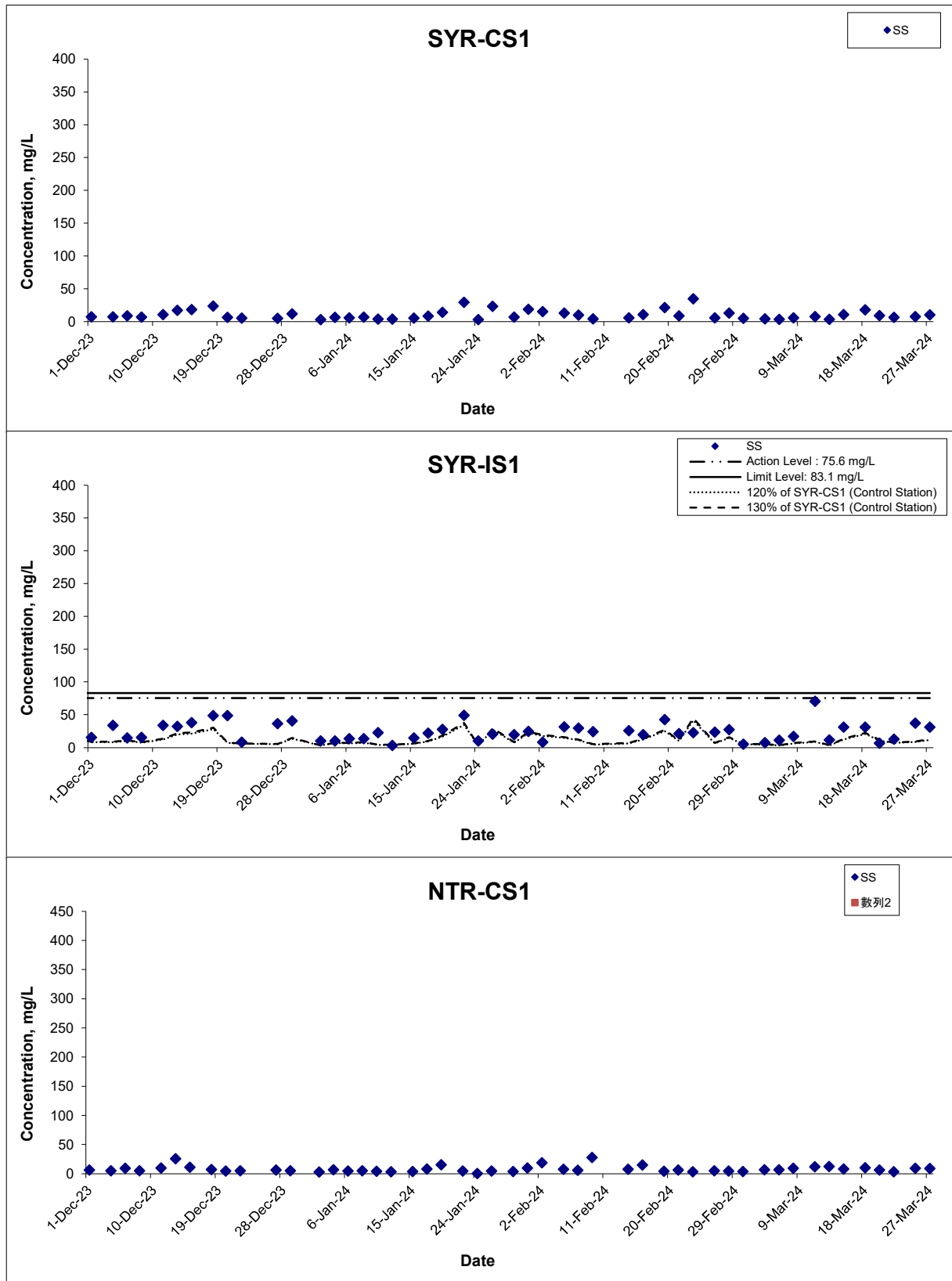
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	Date Mar 24	Appendix G	

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 Mar 24	Appendix G	

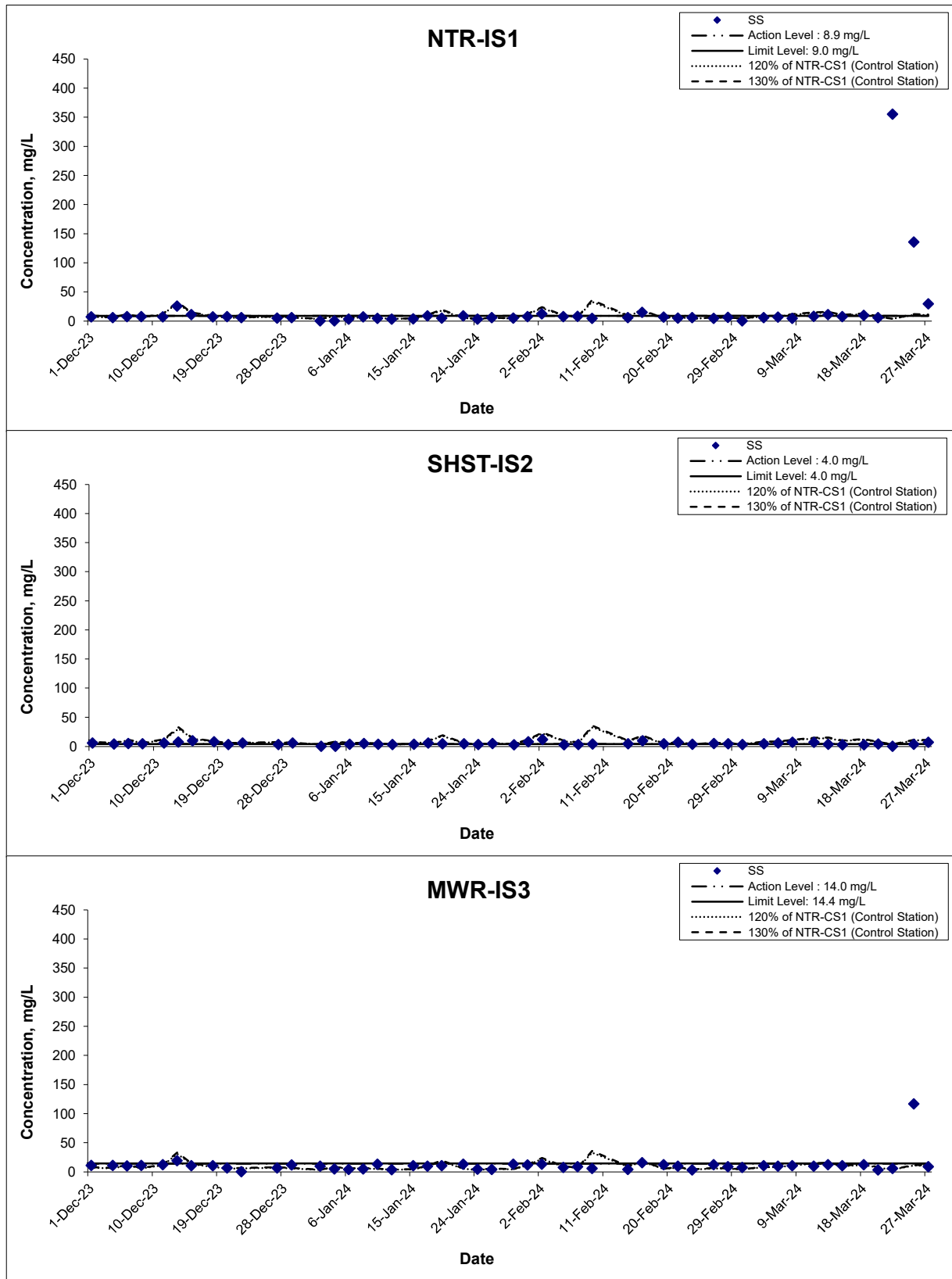
Suspended Solids (Depth-averaged)



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	Mar 24	Appendix	G	

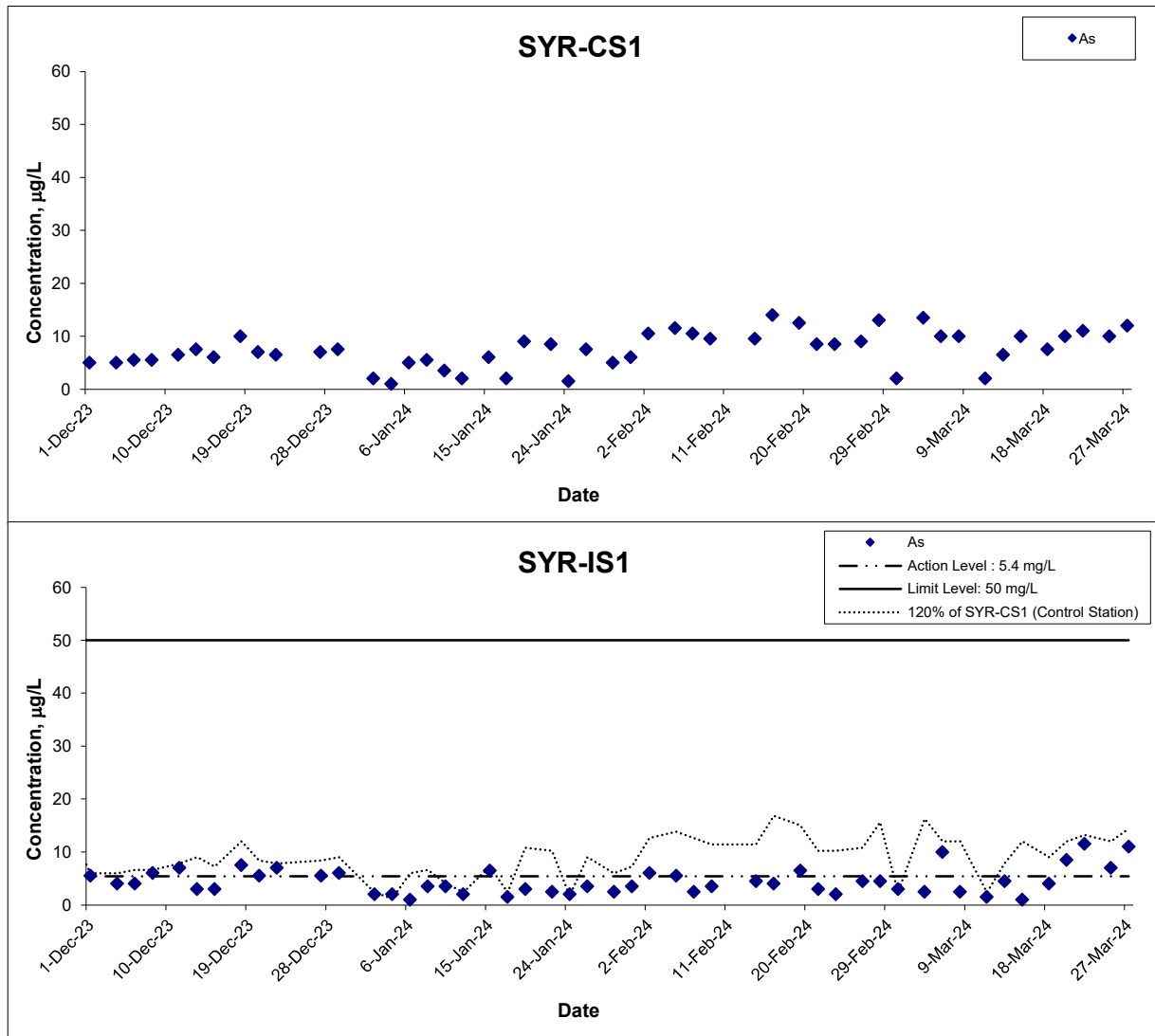
Suspended Solids (Depth-averaged)



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	Mar 24	Appendix G	

Arsenic (Depth-averaged)



Title Contract No. NDO 04/2019 Advance and First Stage Works of Kwu Tung North and Fanling North New Development Areas Graphical Presentation of Water Quality Monitoring Results	Scale N.T.S	Project No. WMA20002	consulting . testing . research
	Date Mar 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.:	39777
Date of Issue:	2024-03-07
Date Received:	2024-03-01
Date Tested:	2024-03-01
Date Completed:	2024-03-07

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 4 liquid samples as received from client said to be water
 Laboratory No. : 39777
 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. : WMA20002/240301
 Sampling Date : 2024-03-01

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.	39777-2	39777-3	39777-5	39777-6
Total Suspended Solids dried at 103-105°C (mg/L)	5	4	5	5
Arsenic (µg/L)	2	2	3	3

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.:	39777A
Date of Issue:	2024-03-07
Date Received:	2024-03-01
Date Tested:	2024-03-01
Date Completed:	2024-03-07

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 8 liquid samples as received from client said to be water
 Laboratory No. : 39777A
 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. : WMA20002/240301
 Sampling Date : 2024-03-01

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.	39777-8	39777-9	39777-12	39777-12
Total Suspended Solids dried at 103-105°C (mg/L)	4	3	<2.5	<2.5

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	39777-14	39777-15	39777-17	39777-18
Total Suspended Solids dried at 103-105°C (mg/L)	3	3	7	8

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.:	39791
Date of Issue:	2024-03-08
Date Received:	2024-03-04
Date Tested:	2024-03-04
Date Completed:	2024-03-08

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 4 liquid samples as received from client said to be water
 Laboratory No. : 39791
 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. : WMA20002/240304
 Sampling Date : 2024-03-04

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.	39791-2	39791-3	39791-5	39791-6
Total Suspended Solids dried at 103-105°C (mg/L)	4	4	7	8
Arsenic (µg/L)	15	12	2	3

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.: 39791A
Date of Issue: 2024-03-08
Date Received: 2024-03-04
Date Tested: 2024-03-04
Date Completed: 2024-03-08**ATTN:** Mr. Marco Ma

Page: 1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 39791A
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. : WMA20002/240304
Sampling Date : 2024-03-04**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.	39791-8	39791-9	39791-12	39791-12
Total Suspended Solids dried at 103-105°C (mg/L)	6	7	5	6

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	39791-14	39791-15	39791-17	39791-18
Total Suspended Solids dried at 103-105°C (mg/L)	4	5	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.:	39801
Date of Issue:	2024-03-12
Date Received:	2024-03-06
Date Tested:	2024-03-06
Date Completed:	2024-03-12

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 39801
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. : WMA20002/240306
Sampling Date : 2024-03-06

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.	39801-2	39801-3	39801-5	39801-6
Total Suspended Solids dried at 103-105°C (mg/L)	3	3	10	12
Arsenic (µg/L)	9	11	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.:	39801A
Date of Issue:	2024-03-12
Date Received:	2024-03-06
Date Tested:	2024-03-06
Date Completed:	2024-03-12

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 39801A
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. : WMA20002/240306
Sampling Date : 2024-03-06

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.	39801-8	39801-9	39801-12	39801-12
Total Suspended Solids dried at 103-105°C (mg/L)	6	7	7	6

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	39801-14	39801-15	39801-17	39801-18
Total Suspended Solids dried at 103-105°C (mg/L)	6	5	10	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.:	39812
Date of Issue:	2024-03-14
Date Received:	2024-03-08
Date Tested:	2024-03-08
Date Completed:	2024-03-14

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 39812
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. : WMA20002/240308
Sampling Date : 2024-03-08

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.	39812-2	39812-3	39812-5	39812-6
Total Suspended Solids dried at 103-105°C (mg/L)	5	6	16	18
Arsenic (µg/L)	11	9	2	3

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.:	39812A
Date of Issue:	2024-03-14
Date Received:	2024-03-08
Date Tested:	2024-03-08
Date Completed:	2024-03-14

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 39812A
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. : WMA20002/240308
Sampling Date : 2024-03-08

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.	39812-8	39812-9	39812-12	39812-12
Total Suspended Solids dried at 103-105°C (mg/L)	8	10	4	5

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	39812-14	39812-15	39812-17	39812-18
Total Suspended Solids dried at 103-105°C (mg/L)	7	7	10	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.: 39840
Date of Issue: 2024-03-15
Date Received: 2024-03-11
Date Tested: 2024-03-11
Date Completed: 2024-03-15**ATTN:** Mr. Marco Ma

Page: 1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 39840
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. : WMA20002/240311
Sampling Date : 2024-03-11**Tests Requested & Methodology:**

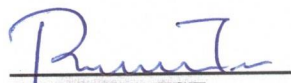
Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L
2	Arsenic	In-house method SOP022 (ICP-AES) and SOP076 (ICP-MS)	1 µg/L

Results:

Sample ID	SYR-CS1-a	SYR-CS1-b	SYR-IS1-a	SYR-IS1-b
Sample No.	39840-2	39840-3	39840-5	39840-6
Total Suspended Solids dried at 103-105°C (mg/L)	7	8	30	31
Arsenic (µg/L)	2	2	1	2

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.:	39840A
Date of Issue:	2024-03-15
Date Received:	2024-03-11
Date Tested:	2024-03-11
Date Completed:	2024-03-15

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 8 liquid samples as received from client said to be water
 Laboratory No. : 39840A
 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. : WMA20002/240311
 Sampling Date : 2024-03-11

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.	39840-8	39840-9	39840-12	39840-12
Total Suspended Solids dried at 103-105°C (mg/L)	12	11	8	8

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	39840-14	39840-15	39840-17	39840-18
Total Suspended Solids dried at 103-105°C (mg/L)	7	7	9	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.: 39850
Date of Issue: 2024-03-19
Date Received: 2024-03-13
Date Tested: 2024-03-13
Date Completed: 2024-03-19**ATTN:** Mr. Marco Ma

Page: 1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 39850
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. : WMA20002/240313
Sampling Date : 2024-03-13**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.	39850-2	39850-3	39850-5	39850-6
Total Suspended Solids dried at 103-105°C (mg/L)	4	3	11	12
Arsenic (µg/L)	6	7	5	4 ^U

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.:	39850A
Date of Issue:	2024-03-19
Date Received:	2024-03-13
Date Tested:	2024-03-13
Date Completed:	2024-03-19

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 8 liquid samples as received from client said to be water
 Laboratory No. : 39850A
 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. : WMA20002/240313
 Sampling Date : 2024-03-13

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.	39850-8	39850-9	39850-12	39850-12
Total Suspended Solids dried at 103-105°C (mg/L)	12	12	12	10


Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	39850-14	39850-15	39850-17	39850-18
Total Suspended Solids dried at 103-105°C (mg/L)	4	3	11	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.:	39860
Date of Issue:	2024-03-21
Date Received:	2024-03-15
Date Tested:	2024-03-15
Date Completed:	2024-03-21

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 39860
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. : WMA20002/240315
Sampling Date : 2024-03-15

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.	39860-2	39860-3	39860-5	39860-6
Total Suspended Solids dried at 103-105°C (mg/L)	11	10	32	30
Arsenic (µg/L)	11	9	1	1

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.:	39860A
Date of Issue:	2024-03-21
Date Received:	2024-03-15
Date Tested:	2024-03-15
Date Completed:	2024-03-21

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 39860A
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. : WMA20002/240315
Sampling Date : 2024-03-15

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.	39860-8	39860-9	39860-12	39860-12
Total Suspended Solids dried at 103-105°C (mg/L)	8	8	7	8


Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	39860-14	39860-15	39860-17	39860-18
Total Suspended Solids dried at 103-105°C (mg/L)	3	<2.5	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.: 39883
Date of Issue: 2024-03-22
Date Received: 2024-03-18
Date Tested: 2024-03-18
Date Completed: 2024-03-22**ATTN:** Mr. Marco Ma

Page: 1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 39883
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. : WMA20002/240318
Sampling Date : 2024-03-18**Tests Requested & Methodology:**

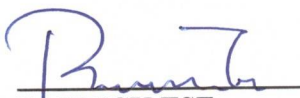
Item	Parameters	Ref. Method	Limit of reporting
1	Total Suspended Solids dried at 103-105°C	APHA 17ed 2540 D	2.5 mg/L
2	Arsenic	In-house method SOP022 (ICP-AES) and SOP076 (ICP-MS)	1 µg/L

Results:

Sample ID	SYR-CS1-a	SYR-CS1-b	SYR-IS1-a	SYR-IS1-b
Sample No.	39883-2	39883-3	39883-5	39883-6
Total Suspended Solids dried at 103-105°C (mg/L)	18	17	32	30
Arsenic (µg/L)	7	8	4	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.:	39883A
Date of Issue:	2024-03-22
Date Received:	2024-03-18
Date Tested:	2024-03-18
Date Completed:	2024-03-22

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 39883A
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. : WMA20002/240318
Sampling Date : 2024-03-18

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.	39883-8	39883-9	39883-12	39883-12
Total Suspended Solids dried at 103-105°C (mg/L)	10	10	9	10

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	39883-14	39883-15	39883-17	39883-18
Total Suspended Solids dried at 103-105°C (mg/L)	<2.5	3	13	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.:	39893
Date of Issue:	2024-03-26
Date Received:	2024-03-20
Date Tested:	2024-03-20
Date Completed:	2024-03-26

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 39893
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. : WMA20002/240320
Sampling Date : 2024-03-20

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:

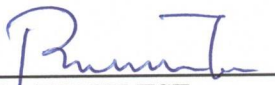
Sample ID	SYR-CS1-a	SYR-CS1-b	SYR-IS1-a	SYR-IS1-b
Sample No.	39893-2	39893-3	39893-5	39893-6
Total Suspended Solids dried at 103-105°C (mg/L)	9	9	7	6
Arsenic (µg/L)	11	9	9	8

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.:	39893A
Date of Issue:	2024-03-26
Date Received:	2024-03-20
Date Tested:	2024-03-20
Date Completed:	2024-03-26

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 8 liquid samples as received from client said to be water
 Laboratory No. : 39893A
 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. : WMA20002/240320
 Sampling Date : 2024-03-20

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.	39893-8	39893-9	39893-12	39893-12
Total Suspended Solids dried at 103-105°C (mg/L)	6	6	6	5

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	39893-14	39893-15	39893-17	39893-18
Total Suspended Solids dried at 103-105°C (mg/L)	4	4	3	3

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.:	39903
Date of Issue:	2024-03-27
Date Received:	2024-03-22
Date Tested:	2024-03-22
Date Completed:	2024-03-27

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 39903
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. : WMA20002/240322
Sampling Date : 2024-03-22

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.	39903-2	39903-3	39903-5	39903-6
Total Suspended Solids dried at 103-105°C (mg/L)	6	6	12	13
Arsenic (µg/L)	12	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.:	39903A
Date of Issue:	2024-03-27
Date Received:	2024-03-22
Date Tested:	2024-03-22
Date Completed:	2024-03-27

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 39903A
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. : WMA20002/240322
Sampling Date : 2024-03-22

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.	39903-8	39903-9	39903-12	39903-12
Total Suspended Solids dried at 103-105°C (mg/L)	3	3	330	380

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	39903-14	39903-15	39903-17	39903-18
Total Suspended Solids dried at 103-105°C (mg/L)	<2.5	<2.5	5	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.: 39929
Date of Issue: 2024-03-27
Date Received: 2024-03-25
Date Tested: 2024-03-25
Date Completed: 2024-03-27**ATTN:** Mr. Marco Ma

Page: 1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 39929
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. : WMA20002/240325
Sampling Date : 2024-03-25**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.	39929-2	39929-3	39929-5	39929-6
Total Suspended Solids dried at 103-105°C (mg/L)	7	8	36	38
Arsenic (µg/L)	11	9	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.:	39929A
Date of Issue:	2024-03-27
Date Received:	2024-03-25
Date Tested:	2024-03-25
Date Completed:	2024-03-27

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 39929A
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. : WMA20002/240325
Sampling Date : 2024-03-25

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.	39929-8	39929-9	39929-12	39929-12
Total Suspended Solids dried at 103-105°C (mg/L)	9	9	145	126

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	39929-14	39929-15	39929-17	39929-18
Total Suspended Solids dried at 103-105°C (mg/L)	3	4	116	117

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.:	39939
Date of Issue:	2024-04-02
Date Received:	2024-03-27
Date Tested:	2024-03-27
Date Completed:	2024-04-02

ATTN: Mr. Marco Ma

Page: 1 of 1

Sample Description : 4 liquid samples as received from client said to be water
Laboratory No. : 39939
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. : WMA20002/240327
Sampling Date : 2024-03-27

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.	39939-2	39939-3	39939-5	39939-6
Total Suspended Solids dried at 103-105°C (mg/L)	10	10	31	31
Arsenic (µg/L)	13	11	12	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.: 39939A
Date of Issue: 2024-04-02
Date Received: 2024-03-27
Date Tested: 2024-03-27
Date Completed: 2024-04-02**ATTN:** Mr. Marco Ma

Page: 1 of 1

Sample Description : 8 liquid samples as received from client said to be water
Laboratory No. : 39939A
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. : WMA20002/240327
Sampling Date : 2024-03-27**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.	39939-8	39939-9	39939-12	39939-12
Total Suspended Solids dried at 103-105°C (mg/L)	8	9	31	28

Sample ID	SHST-IS2-a	SHST-IS2-b	MWR-IS3-a	MWR-IS3-b
Sample No.	39939-14	39939-15	39939-17	39939-18
Total Suspended Solids dried at 103-105°C (mg/L)	7	7	9	8

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.:	QC39777
Date of Issue:	2024-03-07
Date Received:	2024-03-01
Date Tested:	2024-03-01
Date Completed:	2024-03-07

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 (%)	100	101	80-120
Arsenic (%)	115	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 (%)	4	2	RPD≤5%
Arsenic (%)	15	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 39777.

*****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.:	QC39791
Date of Issue:	2024-03-08
Date Received:	2024-03-04
Date Tested:	2024-03-04
Date Completed:	2024-03-08

Page: 1 of 1

ATTN: Mr. Marco Ma
QC report
Method Blank

Parameter	Method Blank 1	Method Blank 2	Acceptance
Total Suspended Solids (mg/L)	<0.5	<0.5	<0.5
Arsenic (µg/L)	<0.2	N/A	<0.2

Method QC

Parameter	MQC1	MQC2	Acceptance
Total Suspended Solids (%)	98	102	80-120
Arsenic (%)	94	N/A	80-120

Sample Spike

Parameter	Sample Spike 1	Sample Spike 2	Acceptance
Total Suspended Solids (%)	N/A	N/A	N/A
Arsenic (%)	85	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	4	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 39791.

*****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.:	QC39801
Date of Issue:	2024-03-12
Date Received:	2024-03-06
Date Tested:	2024-03-06
Date Completed:	2024-03-12

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 (%)	95	91	80-120
Arsenic (%)	112	N/A	80-120

Sample Spike

Parameter	Sample Spike 1	Sample Spike 2	Acceptance
Total Suspended Solids (%)	N/A	N/A	N/A
Arsenic (%)	102	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	2	3	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 39801.

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

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


PATRCIK TSE
General Manager

TEST REPORT

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

Report No.:	QC39812
Date of Issue:	2024-03-14
Date Received:	2024-03-08
Date Tested:	2024-03-08
Date Completed:	2024-03-14

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 (%)	96	110	80-120
Arsenic (%)	100	N/A	80-120

Sample Spike

Parameter	Sample Spike 1	Sample Spike 2	Acceptance
Total Suspended Solids (%)	N/A	N/A	N/A
Arsenic (%)	101	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	2	2	RPD≤5%
Arsenic (%)	16	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 39812.

*****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.:	QC39840
Date of Issue:	2024-03-15
Date Received:	2024-03-11
Date Tested:	2024-03-11
Date Completed:	2024-03-15
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 (%)	113	115	80-120
Arsenic (%)	113	N/A	80-120

Sample Spike

Parameter	Sample Spike 1	Sample Spike 2	Acceptance
Total Suspended Solids (%)	N/A	N/A	N/A
Arsenic (%)	109	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	3	1	RPD≤5%
Arsenic (%)	10	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 39840.

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

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


PATRCIK TSE
 General Manager

TEST REPORT**APPLICANT:** Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.Report No.: QC39850
Date of Issue: 2024-03-19
Date Received: 2024-03-13
Date Tested: 2024-03-13
Date Completed: 2024-03-19

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

Method QC

Parameter	MQC1	MQC2	Acceptance
Total Suspended Solids (%)	88	98	80-120
Arsenic (%)	83	N/A	80-120

Sample Spike

Parameter	Sample Spike 1	Sample Spike 2	Acceptance
Total Suspended Solids (%)	N/A	N/A	N/A
Arsenic (%)	115	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	3	1	RPD \leq 5%
Arsenic (%)	13	N/A	RPD \leq 20%

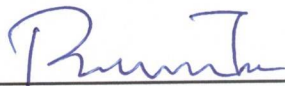
Remarks: 1) < = less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 39850.

*****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.:	QC39860
Date of Issue:	2024-03-21
Date Received:	2024-03-15
Date Tested:	2024-03-15
Date Completed:	2024-03-21

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 (%)	89	85	80-120
Arsenic (%)	116	N/A	80-120

Sample Spike

Parameter	Sample Spike 1	Sample Spike 2	Acceptance
Total Suspended Solids (%)	N/A	N/A	N/A
Arsenic (%)	82	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	2	4	RPD≤5%
Arsenic (%)	13	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 39860.

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

PREPARED AND CHECKED BY:

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


PATRCIK TSE
 General Manager

TEST REPORT**APPLICANT:** Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.Report No.: QC39883
Date of Issue: 2024-03-22
Date Received: 2024-03-18
Date Tested: 2024-03-18
Date Completed: 2024-03-22**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 (%)	90	95	80-120
Arsenic (%)	87	N/A	80-120

Sample Spike

Parameter	Sample Spike 1	Sample Spike 2	Acceptance
Total Suspended Solids (%)	N/A	N/A	N/A
Arsenic (%)	115	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	3	2	RPD \leq 5%
Arsenic (%)	14	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 39883.

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

PREPARED AND CHECKED BY:

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


PATRCIK TSE
 General Manager

TEST REPORT

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

Report No.: QC39893
Date of Issue: 2024-03-26
Date Received: 2024-03-20
Date Tested: 2024-03-20
Date Completed: 2024-03-26

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 (%)	109	110	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 (%)	105	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	1	1	RPD≤5%
Arsenic (%)	9	N/A	RPD≤20%

Remarks: 1) < = less than
2) N/A = Not applicable
3) This report is the summary of quality control data for report number 39893.

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

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


PATRCIK TSE
General Manager

TEST REPORT

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

Report No.: QC39903
Date of Issue: 2024-03-28
Date Received: 2024-03-22
Date Tested: 2024-03-22
Date Completed: 2024-03-28

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 (µg/L)	<0.2	N/A	<0.2

Method QC

Parameter	MQC1	MQC2	Acceptance
Total Suspended Solids (%)	91	109	80-120
Arsenic (%)	87	N/A	80-120

Sample Spike

Parameter	Sample Spike 1	Sample Spike 2	Acceptance
Total Suspended Solids (%)	N/A	N/A	N/A
Arsenic (%)	104	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	2	4	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 39903.

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

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


PATRCIK TSE
General Manager

TEST REPORT

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

Report No.:	QC39929
Date of Issue:	2024-04-03
Date Received:	2024-03-25
Date Tested:	2024-03-25
Date Completed:	2024-04-03

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 (%)	103	107	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 (%)	94	N/A	80-120

Sample Duplicate

Parameter	Sample Duplicate 1	Sample Duplicate 2	Acceptance
Total Suspended Solids (%)	1	4	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 39929.

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

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


PATRCIK TSE
General Manager

TEST REPORT**APPLICANT:** Wellab Limited (EM&A Department)
Rm 1714, Technology Park,
18 On Lai Street,
Shatin, N.T.Report No.: QC39939
Date of Issue: 2024-04-02
Date Received: 2024-03-27
Date Tested: 2024-03-27
Date Completed: 2024-04-02**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 (%)	87	103	80-120
Arsenic (%)	104	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	2	RPD \leq 5%
Arsenic (%)	4	N/A	RPD \leq 20%

Remarks: 1) \leq less than

2) N/A = Not applicable

3) This report is the summary of quality control data for report number 39939.

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

PREPARED AND CHECKED BY:

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


PATRICIK 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 O ₂ >19%	甲烷 CH ₄ <10% LEL	二氧化碳 CO ₂ <0.5%
26-3-2024 16:47	CZ PT 1		20.50	0.00	0.00
26-3-2024 16:43	CZ container 1		20.50	0.00	0.00
26-3-2024 16:45	CZ container 2		20.50	0.00	0.00
26-3-2024 16:45	CZ container 3		20.60	0.00	0.00
26-3-2024 16:50	CZ container 4		20.50	0.00	0.00
26-3-2024 16:50	CZ container 5		20.40	0.00	0.00

Prepared by : Y L Chan (Safety Officer)

Date : 26-3-2024

**APPENDIX K
BUILT HERITAGE MONITORING
RESULTS**

No construction vibration monitoring was conducted for built heritage when no pile driving operation was conducted within assessment area of the construction works.

APPENDIX L
ECOLOGICAL MONITORING RESULTS

Appendix L1a. Avifauna Species Recorded for Water Birds Monitoring, 7 & 4 March 2024, High Tide

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		7/3/2024 (T1 & T2), 4/3/2024 (T3 & T5)						
					Weather Condition		Overcast, Fine						
					Tidal Condition		High						
					Tide Level (m)		1.57, 1.94						
					Start Time		0900, 1300						
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					Heard
			WAL	DAL	SWH	P							
Alexandrine Parakeet	<i>Psittacula eupatria</i>	亞歷山大鸚鵡	RR	NT, Cap. 586					1			1	2
Amur Stonechat	<i>Saxicola stejnegeri</i>	黑喉石鵲	WV				2		1				
Asian Koel	<i>Eudynamys scolopacea</i>	噪鵲	R		1	1						2	
Barn Swallow	<i>Hirundo rustica</i>	家燕	PM, Sv										5
Black Kite	<i>Milvus migrans</i>	黑鳶	R, WV	Cap.586, LC		1							3
Black-collared Starling	<i>Gracupica nigricollis</i>	黑領椋鳥	R		5	2			5				
Black-winged Stilt	<i>Himantopus himantopus</i>	黑翅長腳鵲	PM	RC			10	18		40	15		
Chinese Pond Heron	<i>Ardeola bacchus</i>	池鷺	R	PRC(RC)		4	5	1	2				
Cinereous Tit	<i>Parus cinereus</i>	蒼背山雀	R									1	
Collared Crow	<i>Corvus torquatus</i>	白頸鴉	UR	LC, VU			3						
Common Greenshank	<i>Tringa nebularia</i>	青腳鵲	PM, WV	RC			1			1			
Common Kestrel	<i>Falco tinnunculus</i>	紅隼	CaM, WV	Cap. 586									1
Common Kingfisher	<i>Alcedo atthis</i>	普通翠鳥	R			1							
Common Myna	<i>Acridotheres tristis</i>	家八哥	UR						2				

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		7/3/2024 (T1 & T2), 4/3/2024 (T3 & T5)							
					Weather Condition		Overcast, Fine							
					Tidal Condition		High							
					Tide Level (m)		1.57, 1.94							
					Start Time		0900, 1300							
					Abundance									
					Transect Walk									
					T1	T2	T3	T5						
			WAL	DAL	SWH	P	Heard	Flight						
Common Sandpiper	<i>Actitis hypoleucos</i>	磯鵲	WV, PM			1	2			1				
Common Tailorbird	<i>Orthotomus sutorius</i>	長尾縫葉鶯	R		5									
Crested Myna	<i>Acridotheres cristatellus</i>	八哥	R			2							6	
Daurian Redstart	<i>Phoenicurus auroreus</i>	北紅尾鴝	WV		1									
Dusky Warbler	<i>Phylloscopus fuscatus</i>	褐柳鶯	PM, WV		2				1					
Eastern Cattle Egret	<i>Bubulcus coromandus</i>	牛背鶯	R, PM	(LC)				4					1	
Eastern Yellow Wagtail	<i>Motacilla tschutschensis</i>	東黃鵲鶯	PM, WV				1	3						
Eurasian Teal	<i>Anas crecca</i>	綠翅鴨	WV	RC						6				
Great Cormorant	<i>Phalacrocorax carbo</i>	普通鸕鶿	CWV	PRC	3	1								
Great Egret	<i>Ardea alba</i>	大白鶯	R, WV	PRC(RC)	1	6	3						2	
Green Sandpiper	<i>Tringa ochropus</i>	白腰草鶯	UPM, WV				3							
Grey Heron	<i>Ardea cinerea</i>	蒼鶯	WV	PRC			6						1	
Grey-headed Lapwing	<i>Vanellus cinereus</i>	灰頭麥雞	WV, PM	LC				1						
House Swift	<i>Apus nipalensis</i>	小白腰雨燕	SpM, R										50	
Little Bunting	<i>Emberiza pusilla</i>	小鷓	CPM, WV						6					
Little Egret	<i>Egretta garzetta</i>	小白鶯	R	PRC(RC)		13	3	2					2	
Little Ringed Plover	<i>Charadrius dubius</i>	金眶鶯	WV, PM	LC			1			3				

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		7/3/2024 (T1 & T2), 4/3/2024 (T3 & T5)							
					Weather Condition		Overcast, Fine							
					Tidal Condition		High							
					Tide Level (m)		1.57, 1.94							
					Start Time		0900, 1300							
					Abundance									
					Transect Walk									
					T1	T2	T3	T5						
			WAL	DAL	SWH	P	Heard	Flight						
Marsh Sandpiper	<i>Tringa stagnatilis</i>	澤鵞	PM, WV	RC			3			1				
Masked Laughingthrush	<i>Pterorhinus perspicillatus</i>	黑臉噪鵲	R		2	1			7					
Olive-backed Pipit	<i>Anthus hodgsoni</i>	樹鵲	WV		2	4	3							
Oriental Magpie	<i>Pica serica</i>	喜鵲	R		2									
Oriental Magpie-Robin	<i>Copsychus saularis</i>	鵲鳩	R						1					
Pied Avocet	<i>Recurvirostra avosetta</i>	反嘴鵞	WV	RC						34				
Plain Prinia	<i>Prinia inornata</i>	純色鷓鴣	R						3					
Red-billed Starling	<i>Spodiopsar sericeus</i>	絲光椋鳥	WV	GC					1					
Red-rumped Swallow	<i>Cecropis daurica</i>	金腰燕	UPM										2	
Red-throated Pipit	<i>Anthus cervinus</i>	紅喉鵲	CPM, WV	RC				5						
Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	紅耳鵲	R		5	1								
Rock Dove	<i>Columba livia</i>	原鵠	R			17								
Scaly-breasted Munia	<i>Lonchura punctulata</i>	斑文鳥	R					5						
Spotted Dove	<i>Streptopelia chinensis</i>	珠頸斑鳩	R		3	5			2				6	
Swinhoe's White-eye	<i>Zosterops simplex</i>	暗綠繡眼鳥	R		5				2					
White Wagtail	<i>Motacilla alba</i>	白鵲鳩	PM, WV			2	4		4					
White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	白胸苦惡鳥	R				1	6					2	

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		7/3/2024 (T1 & T2), 4/3/2024 (T3 & T5)									
					Weather Condition		Overcast, Fine									
					Tidal Condition		High									
					Tide Level (m)		1.57, 1.94									
					Start Time		0900, 1300									
					Abundance											
					Transect Walk											
					T1	T2	T3	T5								
			WAL	DAL	SWH	P	Heard	Flight								
White-throated Kingfisher	<i>Halcyon smyrnensis</i>	白胸翡翠	R	(LC)				1								
Wood Sandpiper	<i>Tringa glareola</i>	林鷸	PM, WV	LC			9	1	19			8				
Yellow-browed Warbler	<i>Phylloscopus inornatus</i>	黃眉柳鶯	WV, SpM		1											
Total No. of Species					14	16	16	10	16	8	1	3	14			
Total No. of Conservation Interest Species					2	5	9	7	5	7	1	1	8			

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
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, 7 & 4 March 2024, Low Tide

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		7/3/2024 (T1 & T2), 4/3/2024 (T3 & T5)						
					Weather Condition		Overcast, Fine						
					Tidal Condition		Low						
					Tide Level (m)		1.41, 1.29						
					Start Time		1300, 0800						
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					Heard
			WAL	DAL	SWH	P							
Alexandrine Parakeet	<i>Psittacula eupatria</i>	亞歷山大鸚鵡	RR	NT, Cap. 586	3							4	
Amur Stonechat	<i>Saxicola stejnegeri</i>	黑喉石鵲	WV					2					
Asian Koel	<i>Eudynamis scolopacea</i>	噪鵲	R		1	1							
Black Kite	<i>Milvus migrans</i>	黑鳶	R, WV	Cap.586, LC	2	1							2
Black-collared Starling	<i>Gracupica nigricollis</i>	黑領椋鳥	R		2	1		4					2
Black-winged Stilt	<i>Himantopus himantopus</i>	黑翅長腳鵲	PM	RC				13		107			
Chinese Bulbul	<i>Pycnonotus sinensis</i>	白頭鶇	R		1								
Chinese Pond Heron	<i>Ardeola bacchus</i>	池鷺	R	PRC(RC)	2	6	3	1	4	4			
Cinereous Tit	<i>Parus cinereus</i>	蒼背山雀	R			1							
Collared Crow	<i>Corvus torquatus</i>	白頸鴉	UR	LC, VU		1	1						1
Common Greenshank	<i>Tringa nebularia</i>	青腳鵲	PM, WV	RC				4					
Common Kestrel	<i>Falco tinnunculus</i>	紅隼	CaM, WV	Cap. 586									1
Common Myna	<i>Acridotheres tristis</i>	家八哥	UR					2					
Common Sandpiper	<i>Actitis hypoleucos</i>	磯鵲	WV, PM			1	2						1
Common Snipe	<i>Gallinago gallinago</i>	扇尾沙錐	WV, PM					3					

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		7/3/2024 (T1 & T2), 4/3/2024 (T3 & T5)						
					Weather Condition		Overcast, Fine						
					Tidal Condition		Low						
					Tide Level (m)		1.41, 1.29						
					Start Time		1300, 0800						
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
			WAL	DAL	SWH	P							
Common Tailorbird	<i>Orthotomus sutorius</i>	長尾縫葉鶯	R				1						
Crested Myna	<i>Acridotheres cristatellus</i>	八哥	R						8				
Eastern Cattle Egret	<i>Bubulcus coromandus</i>	牛背鷺	R, PM	(LC)						7			
Eastern Yellow Wagtail	<i>Motacilla tschutschensis</i>	東黃鵪鶉	PM, WV										20
Eurasian Tree Sparrow	<i>Passer montanus</i>	樹麻雀	R						2				
Great Egret	<i>Ardea alba</i>	大白鷺	R, WV	PRC(RC)					3	5			1
Green Sandpiper	<i>Tringa ochropus</i>	白腰草鶻	UPM, WV				1			2			
Grey Heron	<i>Ardea cinerea</i>	蒼鷺	WV	PRC					1	1			1
Little Bunting	<i>Emberiza pusilla</i>	小鵪鶉	CPM, WV								3		
Little Egret	<i>Egretta garzetta</i>	小白鷺	R	PRC(RC)			2	3	4		2		
Marsh Sandpiper	<i>Tringa stagnatilis</i>	澤鶻	PM, WV	RC							2		
Masked Laughingthrush	<i>Pterorhinus perspicillatus</i>	黑臉噪鶻	R				2	1			2		
Olive-backed Pipit	<i>Anthus hodgsoni</i>	樹鶻	WV						2		21		
Oriental Magpie	<i>Pica serica</i>	喜鵲	R						1				
Oriental Magpie-Robin	<i>Copsychus saularis</i>	鵪鶉	R							1			
Pied Avocet	<i>Recurvirostra avosetta</i>	反嘴鶻	WV	RC							44		
Plain Prinia	<i>Prinia inornata</i>	純色鷓鴣	R								1		1

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		7/3/2024 (T1 & T2), 4/3/2024 (T3 & T5)							
					Weather Condition		Overcast, Fine							
					Tidal Condition		Low							
					Tide Level (m)		1.41, 1.29							
					Start Time		1300, 0800							
					Abundance									
					Transect Walk									
					T1	T2	T3	T5						
			WAL	DAL	SWH	P	Heard	Flight						
Red-throated Pipit	<i>Anthus cervinus</i>	紅喉鵲	CPM, WV	RC					20					
Rock Dove	<i>Columba livia</i>	原鴿	R			5								
Spotted Dove	<i>Streptopelia chinensis</i>	珠頸斑鳩	R		1	1		10						
Swinhoe's White-eye	<i>Zosterops simplex</i>	暗綠繡眼鳥	R		1									
White Wagtail	<i>Motacilla alba</i>	白鵲鴿	PM, WV			3		2				2		
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						
Wood Sandpiper	<i>Tringa glareola</i>	林鵲	PM, WV	LC			17		20			8		
Yellow-browed Warbler	<i>Phylloscopus inornatus</i>	黃眉柳鶯	WV, SpM		1	1								
Total No. of Species					13	18	7	6	12	9	0	2	10	
Total No. of Conservation Interest Species					4	6	5	4	2	8	0	1	6	

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		7/3/2024 (T1 & T2), 4/3/2024 (T3 & T5)										
					Weather Condition		Overcast, Fine										
					Tidal Condition		Low										
					Tide Level (m)		1.41, 1.29										
					Start Time		1300, 0800										
					Abundance												
					Transect Walk												
					T1			T2			T3			T5			
					WAL			DAL			SWH			P		Heard	

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)
RC=Regional Concern; LC=Local Concern; PRC=Potential Regional Concern; GC=Global Concern; PGC=Potential Global Concern. Letters in parentheses indicate that the assessment is on the basis of restrictedness in breeding and/or roosting sites rather than in general occurrence (Fellowes et al. (2002)
WAL: Wet Agricultural Land
DAL: Dry Agricultural Land
SWH: Shallow Water Habitat
P: Pond

Appendix L1c. Avifauna Species Recorded for Water Birds Monitoring, 14 & 12 March 2024, High Tide

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		14/3/2024 (T1 & T2), 12/3/2024 (T3 & T5)								
					Weather Condition		Sunny, Sunny								
					Tidal Condition		High								
					Tide Level (m)		2.07, 1.72								
					Start Time		1100, 1000								
					Abundance										
					Transect Walk										
					T1	T2	T3	T5					Heard	Flight	
			WAL	DAL	SWH	P									
Alexandrine Parakeet	<i>Psittacula eupatria</i>	亞歷山大鸚鵡	RR	NT, Cap. 586									1		
Amur Stonechat	<i>Saxicola stejnegeri</i>	黑喉石鵲	WV				3		4						
Asian Koel	<i>Eudynamys scolopacea</i>	噪鵲	R		1	1						1			
Barn Swallow	<i>Hirundo rustica</i>	家燕	PM, Sv										2		
Black Kite	<i>Milvus migrans</i>	黑鳶	R, WV	Cap.586, LC		1							3		
Black-collared Starling	<i>Gracupica nigricollis</i>	黑領椋鳥	R		2	4	1		3			1			
Black-winged Stilt	<i>Himantopus himantopus</i>	黑翅長腳鵲	PM	RC			7	35	7	93			7		
Chestnut-eared Bunting	<i>Emberiza fucata</i>	栗耳鵲	SPM	LC					1						
Chinese Bulbul	<i>Pycnonotus sinensis</i>	白頭鵲	R						1						
Chinese Pond Heron	<i>Ardeola bacchus</i>	池鷺	R	PRC(RC)	1	3	5	1	5				1		
Cinereous Tit	<i>Parus cinereus</i>	蒼背山雀	R		1	1			1			1			
Collared Crow	<i>Corvus torquatus</i>	白頸鵲	UR	LC, VU					.						
Common Greenshank	<i>Tringa nebularia</i>	青腳鵲	PM, WV	RC			2	1		2			1		
Common Kestrel	<i>Falco tinnunculus</i>	紅隼	CaM, WV	Cap. 586									1		
Common Sandpiper	<i>Actitis hypoleucos</i>	磯鵲	WV, PM				3								
Common Snipe	<i>Gallinago gallinago</i>	扇尾沙錐	WV, PM					4	5						

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		14/3/2024 (T1 & T2), 12/3/2024 (T3 & T5)						
					Weather Condition		Sunny, Sunny						
					Tidal Condition		High						
					Tide Level (m)		2.07, 1.72						
					Start Time		1100, 1000						
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					Heard
			WAL	DAL	SWH	P							
Common Tailorbird	<i>Orthotomus sutorius</i>	長尾縫葉鶯	R		1	3	1		1				
Crested Serpent Eagle	<i>Spilornis cheela</i>	蛇鵰	UR	Cap.586, (VU)									2
Daurian Redstart	<i>Phoenicurus auroreus</i>	北紅尾鴝	WV						2				
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)					25	4			4
Eastern Yellow Wagtail	<i>Motacilla tschutschensis</i>	東黃鸝鶯	PM, WV						25				26
Great Cormorant	<i>Phalacrocorax carbo</i>	普通鸕鶿	CWV	PRC		1							
Great Egret	<i>Ardea alba</i>	大白鶯	R, WV	PRC(RC)	2	2	2		1				1
Green Sandpiper	<i>Tringa ochropus</i>	白腰草鶯	UPM, WV				3			3			
Grey Heron	<i>Ardea cinerea</i>	蒼鶯	WV	PRC		1	4						
Grey-headed Lapwing	<i>Vanellus cinereus</i>	灰頭麥雞	WV, PM	LC						2			
Large-billed Crow	<i>Corvus macrorhynchos</i>	大嘴烏鴉	R			1							
Little Bunting	<i>Emberiza pusilla</i>	小鶯	CPM, WV						1				
Little Egret	<i>Egretta garzetta</i>	小白鶯	R	PRC(RC)		7	7		2				2
Little Ringed Plover	<i>Charadrius dubius</i>	金眶鶯	WV, PM	LC					8				1
Long-tailed Shrike	<i>Lanius schach</i>	棕背伯勞	R						1				
Marsh Sandpiper	<i>Tringa stagnatilis</i>	澤鶯	PM, WV	RC						4			

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		14/3/2024 (T1 & T2), 12/3/2024 (T3 & T5)							
					Weather Condition		Sunny, Sunny							
					Tidal Condition		High							
					Tide Level (m)		2.07, 1.72							
					Start Time		1100, 1000							
					Abundance									
					Transect Walk									
					T1	T2	T3	T5					Heard	Flight
			WAL	DAL	SWH	P								
Masked Laughingthrush	<i>Pterorhinus perspicillatus</i>	黑臉噪鵲	R				2	3						
Northern Shoveler	<i>Spatula clypeata</i>	琵嘴鴨	WV	RC									24	
Olive-backed Pipit	<i>Anthus hodgsoni</i>	樹鵲	WV						3					
Oriental Magpie	<i>Pica serica</i>	喜鵲	R				1							
Oriental Magpie-Robin	<i>Copsychus saularis</i>	鵲鴝	R				2		1					
Pied Avocet	<i>Recurvirostra avosetta</i>	反嘴鵲	WV	RC						38				
Pied Kingfisher	<i>Ceryle rudis</i>	斑魚狗	UR	(LC)				1						
Plain Prinia	<i>Prinia inornata</i>	純色鷓鴣	R						1	1		2		
Red-billed Blue Magpie	<i>Urocissa erythrorhyncha</i>	紅咀藍鵲	R					2						
Red-throated Pipit	<i>Anthus cervinus</i>	紅喉鵲	CPM, WV	RC						4				
Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	紅耳鵲	R				2			1		1		
Richard's Pipit	<i>Anthus richardi</i>	理氏鵲	WV, PM							3				
Rock Dove	<i>Columba livia</i>	原鵲	R					9					32	
Scaly-breasted Munia	<i>Lonchura punctulata</i>	斑文鳥	R							61			1	
Spotted Dove	<i>Streptopelia chinensis</i>	珠頸斑鳩	R				1	1	1		3			
Swinhoe's White-eye	<i>Zosterops simplex</i>	暗綠繡眼鳥	R				1		1					
White Wagtail	<i>Motacilla alba</i>	白鵲鴝	PM, WV					3	3		7			

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		14/3/2024 (T1 & T2), 12/3/2024 (T3 & T5)									
					Weather Condition		Sunny, Sunny									
					Tidal Condition		High									
					Tide Level (m)		2.07, 1.72									
					Start Time		1100, 1000									
					Abundance											
					Transect Walk											
					T1	T2	T3	T5					Heard	Flight		
			WAL	DAL	SWH	P										
White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	白胸苦惡鳥	R				1									
Wood Sandpiper	<i>Tringa glareola</i>	林鵲	PM, WV	LC			11		8							
Yellow-bellied Prinia	<i>Prinia flaviventris</i>	黃腹鷓鴣	R					1				1				
Yellow-browed Warbler	<i>Phylloscopus inornatus</i>	黃眉柳鶯	WV, SpM		1	1										
Total No. of Species					13	18	17	6	26	8	0	6	16			
Total No. of Conservation Interest Species					2	7	6	4	8	7	0	0	12			

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; USV - Uncommon Summer visitor; SpM – Spring migrant; UR – Uncommon resident; SWV –CWV - Common Winter 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)
VU: Vulnerable 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, 14 & 12 March 2024, Low Tide

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		14/3/2024 (T1 & T2), 12/3/2024 (T3 & T5)							
					Weather Condition		Sunny, Sunny							
					Tidal Condition		Low							
					Tide Level (m)		0.64, 1.49							
					Start Time		0800, 1530							
					Abundance									
					Transect Walk									
					T1	T2	T3	T5					Heard	Flight
			WAL	DAL	SWH	P								
Asian Koel	<i>Eudynamys scolopacea</i>	噪鵲	R				1	2				1		
Barn Swallow	<i>Hirundo rustica</i>	家燕	PM, Sv				2						5	
Black Kite	<i>Milvus migrans</i>	黑鳶	R, WV	Cap.586, LC									2	
Black-collared Starling	<i>Gracupica nigricollis</i>	黑領棕鳥	R				4	1		4				
Black-winged Kite	<i>Elanus caeruleus</i>	黑翅鳶	OV	LC, (VU)									1	
Black-winged Stilt	<i>Himantopus himantopus</i>	黑翅長腳鵲	PM	RC					14	3	103			
Chinese Pond Heron	<i>Ardeola bacchus</i>	池鷺	R	PRC(RC)			2	2	4	4	2			
Cinereous Tit	<i>Parus cinereus</i>	蒼背山雀	R					3				1		
Collared Crow	<i>Corvus torquatus</i>	白頸鴉	UR	LC, VU					2					
Common Greenshank	<i>Tringa nebularia</i>	青腳鵲	PM, WV	RC					2		3			
Common Kestrel	<i>Falco tinnunculus</i>	紅隼	CaM, WV	Cap. 586									1	
Common Moorhen	<i>Gallinula chloropus</i>	黑水雞	R								2			
Common Myna	<i>Acridotheres tristis</i>	家八哥	UR						2	2				
Common Sandpiper	<i>Actitis hypoleucos</i>	磯鵲	WV, PM					1	2	1				
Common Snipe	<i>Gallinago gallinago</i>	扇尾沙錐	WV, PM						10				5	

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		14/3/2024 (T1 & T2), 12/3/2024 (T3 & T5)							
					Weather Condition		Sunny, Sunny							
					Tidal Condition		Low							
					Tide Level (m)		0.64, 1.49							
					Start Time		0800, 1530							
					Abundance									
					Transect Walk									
					T1	T2	T3	T5						
			WAL	DAL	SWH	P	Heard	Flight						
Common Tailorbird	<i>Orthotomus sutorius</i>	長尾縫葉鶯	R				4	1						
Crested Myna	<i>Acridotheres cristatellus</i>	八哥	R						30	5			9	
Eastern Yellow Wagtail	<i>Motacilla tschutschensis</i>	東黃鶺鴒	PM, WV						13	8			8	
Eurasian Teal	<i>Anas crecca</i>	綠翅鴨	WV	RC							3			
Eurasian Tree Sparrow	<i>Passer montanus</i>	樹麻雀	R						25					
Great Egret	<i>Ardea alba</i>	大白鷺	R, WV	PRC(RC)	1	2	3						1	
Greater Coucal	<i>Centropus sinensis</i>	褐翅鴉鵂	R	(VU)									1	
Green Sandpiper	<i>Tringa ochropus</i>	白腰草鶺鴒	UPM, WV			1	2						1	
Grey Heron	<i>Ardea cinerea</i>	蒼鷺	WV	PRC		1	1						1	
Grey-headed Lapwing	<i>Vanellus cinereus</i>	灰頭麥雞	WV, PM	LC						1				
Little Egret	<i>Egretta garzetta</i>	小白鷺	R	PRC(RC)		10	6	2		2			2	
Little Ringed Plover	<i>Charadrius dubius</i>	金眶鸕	WV, PM	LC			1			8				
Marsh Sandpiper	<i>Tringa stagnatilis</i>	澤鶺鴒	PM, WV	RC						2				
Masked Laughingthrush	<i>Pterorhinus perspicillatus</i>	黑臉噪鶺鴒	R		2	4								
Northern Shoveler	<i>Spatula clypeata</i>	琵嘴鴨	WV	RC							6			
Olive-backed Pipit	<i>Anthus hodgsoni</i>	樹鶺鴒	WV		1				3					
Oriental Magpie	<i>Pica serica</i>	喜鶺鴒	R		4									

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		14/3/2024 (T1 & T2), 12/3/2024 (T3 & T5)							
					Weather Condition		Sunny, Sunny							
					Tidal Condition		Low							
					Tide Level (m)		0.64, 1.49							
					Start Time		0800, 1530							
					Abundance									
					Transect Walk									
					T1	T2	T3	T5						
			WAL	DAL	SWH	P	Heard	Flight						
Oriental Magpie-Robin	<i>Copsychus saularis</i>	鵲鴝	R			1								
Pied Avocet	<i>Recurvirostra avoetia</i>	反嘴鹮	WV	RC					14	26				
Plain Prinia	<i>Prinia inornata</i>	純色鷓鴣	R					2						
Red-throated Pipit	<i>Anthus cervinus</i>	紅喉鵯	CPM, WV	RC				5	3					
Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	紅耳鶇	R		2	3								
Richard's Pipit	<i>Anthus richardi</i>	理氏鵯	WV, PM					2						
Rock Dove	<i>Columba livia</i>	原鴿	R		1	1			21					
Scaly-breasted Munia	<i>Lonchura punctulata</i>	斑文鳥	R			2			6			10		
Spotted Dove	<i>Streptopelia chinensis</i>	珠頸斑鳩	R		2	1			8			8		
Swinhoe's White-eye	<i>Zosterops simplex</i>	暗綠繡眼鳥	R						2					
White Wagtail	<i>Motacilla alba</i>	白鶺鴒	PM, WV			3	3		5					
White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	白胸苦惡鳥	R					1	1					
White-throated Kingfisher	<i>Halcyon smyrnensis</i>	白胸翡翠	R	(LC)					1					
Wood Sandpiper	<i>Tringa glareola</i>	林鶺鴒	PM, WV	LC				14		2		3		
Yellow-bellied Prinia	<i>Prinia flaviventris</i>	黃腹鷓鴣	R		2									
Yellow-browed Warbler	<i>Phylloscopus inornatus</i>	黃眉柳鶯	WV, SpM			1								
Total No. of Species					13	17	12	10	16	10	4	2	15	

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		14/3/2024 (T1 & T2), 12/3/2024 (T3 & T5)						
					Weather Condition		Sunny, Sunny						
					Tidal Condition		Low						
					Tide Level (m)		0.64, 1.49						
					Start Time		0800, 1530						
					Abundance								
					Transect Walk								
					T1	T2	T3	T5				Heard	Flight
WAL	DAL	SWH	P										
Total No. of Conservation Interest Species					2	4	7	5	3	9	4	0	8

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;; SpM – Spring migrant; Sv – Summer Visitor; UR – Uncommon resident; SWV – Scarce winter visitor; CWV - Common Winter Visitor; 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)
(VU): Vulnerable in China Red Data Book 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 L1e. Avifauna Species Recorded for Water Birds Monitoring, 21 & 22 March 2024, High Tide

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		21/3/2024 (T1 & T2), 22/3/2024 (T3 & T5)						
					Weather Condition		Sunny, Sunny						
					Tidal Condition		High						
					Tide Level (m)		1.64, 1.67						
					Start Time		0900, 0900						
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					Heard
			WAL	DAL	SWH	P							
Amur Stonechat	<i>Saxicola stejnegeri</i>	黑喉石鵯	WV					5					
Asian Koel	<i>Eudynamys scolopacea</i>	噪鵯	R		1	2	1				1		
Barn Swallow	<i>Hirundo rustica</i>	家燕	PM, Sv		1								
Black Kite	<i>Milvus migrans</i>	黑鳶	R, WV	(RC), Cap. 586		3							
Black-collared Starling	<i>Gracupica nigricollis</i>	黑領椋鳥	R		2	4	4		2			1	
Black-winged Stilt	<i>Himantopus himantopus</i>	黑翅長腳鷸	PM	RC			11	24	4	94		2	
Chinese Pond Heron	<i>Ardeola bacchus</i>	池鷺	R	PRC(RC)		4		4	2			2	
Cinereous Tit	<i>Parus cinereus</i>	蒼背山雀	R		2	6			1				
Collared Crow	<i>Corvus torquatus</i>	白頸鴉	UR	LC, VU		1							
Common Greenshank	<i>Tringa nebularia</i>	青腳鷸	PM, WV	RC			2	5		3			
Common Moorhen	<i>Gallinula chloropus</i>	黑水雞	R						2				
Common Sandpiper	<i>Actitis hypoleucos</i>	磯鷸	WV, PM		2		3						
Common Snipe	<i>Gallinago gallinago</i>	扇尾沙錐	WV, PM					4				7	
Common Tailorbird	<i>Orthotomus sutorius</i>	長尾縫葉鶯	R		2	1							
Crested Myna	<i>Acridotheres cristatellus</i>	八哥	R				1					2	
Dusky Warbler	<i>Phylloscopus fuscatus</i>	褐柳鶯	PM, WV				1						

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		21/3/2024 (T1 & T2), 22/3/2024 (T3 & T5)						
					Weather Condition		Sunny, Sunny						
					Tidal Condition		High						
					Tide Level (m)		1.64, 1.67						
					Start Time		0900, 0900						
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
			WAL	DAL	SWH	P	Heard	Flight					
Eastern Buzzard	<i>Buteo japonicus</i>	普通鵟	WV	Cap.586		1							
Eastern Cattle Egret	<i>Bubulcus coromandus</i>	牛背鵞	R, PM	(LC)		4		30	4				
Eastern Yellow Wagtail	<i>Motacilla tschutschensis</i>	東黃鵲鶉	PM, WV					1	4				
Eurasian Teal	<i>Anas crecca</i>	綠翅鴨	WV	RC						3			
Great Egret	<i>Ardea alba</i>	大白鵞	R, WV	PRC(RC)		3							
Greater Coucal	<i>Centropus sinensis</i>	褐翅鴉鶉	R	(VU)					1			1	
Greater Painted-snipe	<i>Rostratula benghalensis</i>	彩鵞	R	LC				2					
Green Sandpiper	<i>Tringa ochropus</i>	白腰草鵞	UPM, WV				6	1		2		5	
Grey-headed Lapwing	<i>Vanellus cinereus</i>	灰頭麥雞	WV, PM	LC						1			
Large Hawk-Cuckoo	<i>Hierococcyx sparveroides</i>	大鷹鴉	Sv			1							
Little Bunting	<i>Emberiza pusilla</i>	小鵞	CPM, WV			2							
Little Egret	<i>Egretta garzetta</i>	小白鵞	R	PRC(RC)	1	6	9	1	1	3		1	
Little Ringed Plover	<i>Charadrius dubius</i>	金眶鵞	WV, PM	LC					2				
Marsh Sandpiper	<i>Tringa stagnatilis</i>	澤鵞	PM, WV	RC						4			
Masked Laughingthrush	<i>Pterorhinus perspicillatus</i>	黑臉噪鵞	R		4	1	2		1			6	
Olive-backed Pipit	<i>Anthus hodgsoni</i>	樹鵞	WV			1	6						
Oriental Magpie-Robin	<i>Copsychus saularis</i>	鵞鵒	R		1	1			1				

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		21/3/2024 (T1 & T2), 22/3/2024 (T3 & T5)							
					Weather Condition		Sunny, Sunny							
					Tidal Condition		High							
					Tide Level (m)		1.64, 1.67							
					Start Time		0900, 0900							
					Abundance									
					Transect Walk									
					T1	T2	T3	T5					Heard	Flight
			WAL	DAL	SWH	P								
Pied Avocet	<i>Recurvirostra avosetta</i>	反嘴鷸	WV	RC				1		36			3	
Pied Kingfisher	<i>Ceryle rudis</i>	斑魚狗	UR	(LC)	2									
Plain Prinia	<i>Prinia inornata</i>	純色鷓鴣	R						2			1		
Red-throated Pipit	<i>Anthus cervinus</i>	紅喉鵯	CPM, WV	RC					1				4	
Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	紅耳鶇	R		1	3	6		1					
Richard's Pipit	<i>Anthus richardi</i>	理氏鵯	WV, PM						2					
Rock Dove	<i>Columba livia</i>	原鴿	R			5	1		13				4	
Scaly-breasted Munia	<i>Lonchura punctulata</i>	斑文鳥	R						10					
Spotted Dove	<i>Streptopelia chinensis</i>	珠頸斑鳩	R		1	3	1		6					
Swinhoe's White-eye	<i>Zosterops simplex</i>	暗綠繡眼鳥	R			2	2							
White Wagtail	<i>Motacilla alba</i>	白鶺鴒	PM, WV			1	2							
White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	白胸苦惡鳥	R						1			1		
White-throated Kingfisher	<i>Halcyon smyrnensis</i>	白胸翡翠	R	(LC)			2							
Wood Sandpiper	<i>Tringa glareola</i>	林鵯	PM, WV	LC			2	2	5	16				
Yellow-bellied Prinia	<i>Prinia flaviventris</i>	黃腹鷓鴣	R				1		1					
Yellow-browed Warbler	<i>Phylloscopus inornatus</i>	黃眉柳鶯	WV, SpM			1								
Total No. of Species					12	22	19	11	23	9	0	5	10	

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		21/3/2024 (T1 & T2), 22/3/2024 (T3 & T5)						
					Weather Condition		Sunny, Sunny						
					Tidal Condition		High						
					Tide Level (m)		1.64, 1.67						
					Start Time		0900, 0900						
					Abundance								
					Transect Walk								
					T1	T2	T3	T5					
								WAL	DAL	SWH	P	Heard	Flight
Total No. of Conservation Interest Species					2	7	5	8	8	8	0	1	5

Note:
R – Resident; WV – Winter visitor; PM – Passage migrant; CPM - Common Passage Migrant; UPM – Uncommon passage migrant; SPM - Scarce Passage Migrant; CaM - Common autumn migrant; SaM - Scarce autumn migrant; USV - Uncommon Summer visitor; SpM – Spring migrant; Sv – Summer Visitor; SSv – Spring & Summer Visitor; UR – Uncommon resident; RR – Rare resident; SWV – Scarce winter visitor; CWV - Common Winter Visitor; M - Spring and Autumn Migrant; OV - Occasional visitor
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
RC=Regional Concern; LC=Local Concern; PRC=Potential Regional Concern; GC=Global Concern; PGC=Potential Global Concern. Letters in parentheses indicate that the assessment is on the basis of restrictedness in breeding and/or roosting sites rather than in general occurrence (Fellowes et al. (2002)
WAL: Wet Agricultural Land
DAL: Dry Agricultural Land
SWH: Shallow Water Habitat
P: Pond

Appendix L1f. Avifauna Species Recorded for Water Birds Monitoring, 21 & 22 March 2024, Low Tide

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		21/3/2024 (T1 & T2), 22/3/2024 (T3 & T5)							
					Weather Condition		Sunny, Sunny							
					Tidal Condition		Low							
					Tide Level (m)		1.43, 1.4							
					Start Time		1300, 1300							
					Abundance									
					Transect Walk									
					T1	T2	T3	T5					Heard	Flight
			WAL	DAL	SWH	P								
Alexandrine Parakeet	<i>Psittacula eupatria</i>	亞歷山大鸚鵡	RR	NT, Cap. 586	1									
Amur Stonechat	<i>Saxicola stejnegeri</i>	黑喉石鵲	WV				1							
Asian Koel	<i>Eudynamys scolopacea</i>	噪鵲	R		1	1								
Barn Swallow	<i>Hirundo rustica</i>	家燕	PM, Sv			2								
Besra	<i>Accipiter virgatus</i>	松雀鷹	R, CPM	Cap.586									1	
Black Kite	<i>Milvus migrans</i>	黑鳶	R, WV	(RC), Cap. 586	1								1	
Black-collared Starling	<i>Gracupica nigricollis</i>	黑領棕鳥	R		5	1			1					
Black-winged Stilt	<i>Himantopus himantopus</i>	黑翅長腳鵲	PM	RC			6	13		119				
Chinese Bulbul	<i>Pycnonotus sinensis</i>	白頭鵲	R						3					
Chinese Pond Heron	<i>Ardeola bacchus</i>	池鷺	R	PRC(RC)	2	2	2	1	7	2				
Cinereous Tit	<i>Parus cinereus</i>	蒼背山雀	R		2									
Collared Crow	<i>Corvus torquatus</i>	白頸鴉	UR	LC, VU	2	1	3							
Common Greenshank	<i>Tringa nebularia</i>	青腳鵲	PM, WV	RC			1	3		4			1	
Common Myna	<i>Acridotheres tristis</i>	家八哥	UR						8					
Common Sandpiper	<i>Actitis hypoleucos</i>	磯鵲	WV, PM				2							
Common Snipe	<i>Gallinago gallinago</i>	扇尾沙錐	WV, PM					6	3	1			2	

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		21/3/2024 (T1 & T2), 22/3/2024 (T3 & T5)									
					Weather Condition		Sunny, Sunny									
					Tidal Condition		Low									
					Tide Level (m)		1.43, 1.4									
					Start Time		1300, 1300									
					Abundance											
					Transect Walk											
					T1	T2	T3	T5					Heard	Flight		
			WAL	DAL	SWH	P										
Common Tailorbird	<i>Orthotomus sutorius</i>	長尾縫葉鶯	R				2	1								
Crested Myna	<i>Acridotheres cristatellus</i>	八哥	R						3				2			
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)					2							
Eastern Yellow Wagtail	<i>Motacilla tschutschensis</i>	東黃鶺鴒	PM, WV					1		16						
Great Cormorant	<i>Phalacrocorax carbo</i>	普通鸕鶿	CWV	PRC			1									
Great Egret	<i>Ardea alba</i>	大白鶯	R, WV	PRC(RC)				4	3		1					
Greater Coucal	<i>Centropus sinensis</i>	褐翅鴉鵂	R	(VU)						1						
Grey Heron	<i>Ardea cinerea</i>	蒼鶯	WV	PRC					1							
Grey-headed Lapwing	<i>Vanellus cinereus</i>	灰頭麥雞	WV, PM	LC							1					
House Swift	<i>Apus nipalensis</i>	小白腰雨燕	SpM, R				1									
Large Hawk-Cuckoo	<i>Hierococyx sparverioides</i>	大鷹鴉	Sv				1	1	1			1				
Little Bunting	<i>Emberiza pusilla</i>	小鵪鶉	CPM, WV					6								
Little Egret	<i>Egretta garzetta</i>	小白鶯	R	PRC(RC)					4	1	2	2	4			
Little Ringed Plover	<i>Charadrius dubius</i>	金眶鸕	WV, PM	LC						1			1			
Marsh Sandpiper	<i>Tringa stagnatilis</i>	澤鶯	PM, WV	RC							1					
Masked Laughingthrush	<i>Pterorhinus perspicillatus</i>	黑臉噪鶯	R					2								

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		21/3/2024 (T1 & T2), 22/3/2024 (T3 & T5)							
					Weather Condition		Sunny, Sunny							
					Tidal Condition		Low							
					Tide Level (m)		1.43, 1.4							
					Start Time		1300, 1300							
					Abundance									
					Transect Walk									
					T1	T2	T3	T5					Heard	Flight
			WAL	DAL	SWH	P								
Olive-backed Pipit	<i>Anthus hodgsoni</i>	樹鵲	WV			3	6							
Oriental Magpie-Robin	<i>Copsychus saularis</i>	鵲鴝	R					1						
Oriental Pratincole	<i>Glareola maldivarum</i>	普通燕鴿	PM	LC									5	
Pied Avocet	<i>Recurvirostra avosetta</i>	反嘴鷗	WV	RC					38					
Plain Prinia	<i>Prinia inornata</i>	純色鷓鴣	R				1					2		
Red-throated Pipit	<i>Anthus cervinus</i>	紅喉鵲	CPM, WV	RC				7						
Red-whiskered Bulbul	<i>Pycnonotus jocosus</i>	紅耳鶇	R			1								
Richard's Pipit	<i>Anthus richardi</i>	理氏鵲	WV, PM				1	1						
Rock Dove	<i>Columba livia</i>	原鴿	R		2	8	5		23					
Scaly-breasted Munia	<i>Lonchura punctulata</i>	斑文鳥	R						30				8	
Spotted Dove	<i>Streptopelia chinensis</i>	珠頸斑鳩	R		2				6					
Swinhoe's White-eye	<i>Zosterops simplex</i>	暗綠繡眼鳥	R		2		2		3					
White Wagtail	<i>Motacilla alba</i>	白鵲鴝	PM, WV				4		3					
White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	白胸苦惡鳥	R				2		1	2			1	
White-throated Kingfisher	<i>Halcyon smyrnensis</i>	白胸翡翠	R	(LC)			2		1	1				
Wood Sandpiper	<i>Tringa glareola</i>	林鵲	PM, WV	LC			4	12	12	24			1	
Total No. of Species					14	14	18	8	22	12	0	2	11	

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		21/3/2024 (T1 & T2), 22/3/2024 (T3 & T5)							
					Weather Condition		Sunny, Sunny							
					Tidal Condition		Low							
					Tide Level (m)		1.43, 1.4							
					Start Time		1300, 1300							
					Abundance									
					Transect Walk									
					T1	T2	T3	T5						
			WAL	DAL	SWH	P	Heard	Flight						
Total No. of Conservation Interest Species					5	3	9	6	7	10	0	0	7	

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)
(VU): Vulnerable 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 & 25 March 2024, High Tide

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		28/3/2024 (T1 & T2), 25/3/2024 (T3 & T5)							
					Weather Condition		Sunny, Sunny							
					Tidal Condition		High							
					Tide Level (m)		2.02, 1.27							
					Start Time		1000, 0900							
					Abundance									
					Transect Walk									
					T1	T2	T3	T5					Heard	Flight
			WAL	DAL	SWH	P								
Alexandrine Parakeet	<i>Psittacula eupatria</i>	亞歷山大鸚鵡	RR	NT, Cap. 586		1							2	
Amur Stonechat	<i>Saxicola stejnegeri</i>	黑喉石鵲	WV										2	
Asian Koel	<i>Eudynamys scolopacea</i>	噪鵲	R		1	1	1					1	1	
Azure-winged Magpie	<i>Cyanopica cyanus</i>	灰喜鵲	R		5									
Black Kite	<i>Milvus migrans</i>	黑鳶	R, WV	(RC), Cap. 586									1	
Black-collared Starling	<i>Gracupica nigricollis</i>	黑領椋鳥	R					2						
Black-winged Stilt	<i>Himantopus himantopus</i>	黑翅長腳鵲	PM	RC			10		61	15				
Chinese Bulbul	<i>Pycnonotus sinensis</i>	白頭鵲	R				1							
Chinese Pond Heron	<i>Ardeola bacchus</i>	池鷺	R	PRC(RC)		12	2	1	2	1			1	
Collared Crow	<i>Corvus torquatus</i>	白頸鴉	UR	LC, VU			2						1	
Common Greenshank	<i>Tringa nebularia</i>	青腳鵲	PM, WV	RC					8					
Common Myna	<i>Acridotheres tristis</i>	家八哥	UR					2						
Common Sandpiper	<i>Actitis hypoleucos</i>	磯鵲	WV, PM				1							
Common Snipe	<i>Gallinago gallinago</i>	扇尾沙錐	WV, PM					4						
Crested Myna	<i>Acridotheres cristatellus</i>	八哥	R			5							4	
Crested Serpent Eagle	<i>Spilornis cheela</i>	蛇鵲	UR	Cap.586, (VU)	2									

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		28/3/2024 (T1 & T2), 25/3/2024 (T3 & T5)							
					Weather Condition		Sunny, Sunny							
					Tidal Condition		High							
					Tide Level (m)		2.02, 1.27							
					Start Time		1000, 0900							
					Abundance									
					Transect Walk									
					T1	T2	T3	T5						
			WAL	DAL	SWH	P	Heard	Flight						
Dusky Warbler	<i>Phylloscopus fuscatus</i>	褐柳鶯	PM, WV					1						
Eastern Buzzard	<i>Buteo japonicus</i>	普通鵟	WV	Cap.586								1		
Eastern Cattle Egret	<i>Bubulcus coromandus</i>	牛背鶯	R, PM	(LC)		1		10	1					
Eastern Yellow Wagtail	<i>Motacilla tschutschensis</i>	東黃鶺鴒	PM, WV				2	3						
Eurasian Teal	<i>Anas crecca</i>	綠翅鴨	WV	RC						3				
Eurasian Tree Sparrow	<i>Passer montanus</i>	樹麻雀	R					13						
Great Egret	<i>Ardea alba</i>	大白鶯	R, WV	PRC(RC)		7	1	1						
Greater Coucal	<i>Centropus sinensis</i>	褐翅鴉鶻	R	(VU)							1			
Green Sandpiper	<i>Tringa ochropus</i>	白腰草鶻	UPM, WV		1				1					
Grey Heron	<i>Ardea cinerea</i>	蒼鶯	WV	PRC			1		1					
Grey-headed Lapwing	<i>Vanellus cinereus</i>	灰頭麥雞	WV, PM	LC					1					
Large Hawk-Cuckoo	<i>Hierococcyx sparveroides</i>	大鷹鴉	Sv			1	1							
Little Egret	<i>Egretta garzetta</i>	小白鶯	R	PRC(RC)		4	4	4		2				
Little Ringed Plover	<i>Charadrius dubius</i>	金眶鸕	WV, PM	LC				1	2					
Marsh Sandpiper	<i>Tringa stagnatilis</i>	澤鶻	PM, WV	RC					1					
Masked Laughingthrush	<i>Pterorhinus perspicillatus</i>	黑臉噪鶻	R					7						
Olive-backed Pipit	<i>Anthus hodgsoni</i>	樹鶻	WV									3		

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		28/3/2024 (T1 & T2), 25/3/2024 (T3 & T5)									
					Weather Condition		Sunny, Sunny									
					Tidal Condition		High									
					Tide Level (m)		2.02, 1.27									
					Start Time		1000, 0900									
					Abundance											
					Transect Walk											
					T1	T2	T3	T5					Heard	Flight		
			WAL	DAL	SWH	P										
Oriental Magpie-Robin	<i>Copsychus saularis</i>	鵲鴝	R			1		3								
Oriental Pratincole	<i>Glareola maldivarum</i>	普通燕鴝	PM	LC				2								
Pallas's Leaf Warbler	<i>Phylloscopus proregulus</i>	黃腰柳鶯	WV		2											
Pied Avocet	<i>Recurvirostra avosetta</i>	反嘴鷗	WV	RC					1	14						
Plain Prinia	<i>Prinia inornata</i>	純色鷓鴣	R				1									
Plaintive Cuckoo	<i>Cacomantis merulinus</i>	八聲杜鵑	USV			1										
Red-throated Pipit	<i>Anthus cervinus</i>	紅喉鸚	CPM, WV	RC				1								
Richard's Pipit	<i>Anthus richardi</i>	理氏鸚	WV, PM					1								
Rock Dove	<i>Columba livia</i>	原鴿	R			5	2		6			2				
Scaly-breasted Munia	<i>Lonchura punctulata</i>	斑文鳥	R				20	13				1				
Spotted Dove	<i>Streptopelia chinensis</i>	珠頸斑鳩	R		2	3	4		1			1				
White Wagtail	<i>Motacilla alba</i>	白鶺鴒	PM, WV				2									
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					
Wood Sandpiper	<i>Tringa glareola</i>	林鸚	PM, WV	LC			1	1		21		2				
Yellow-bellied Prinia	<i>Prinia flaviventris</i>	黃腹鷓鴣	R								2					
Total No. of Species					6	11	16	8	17	12	3	4	13			

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		28/3/2024 (T1 & T2), 25/3/2024 (T3 & T5)							
					Weather Condition		Sunny, Sunny							
					Tidal Condition		High							
					Tide Level (m)		2.02, 1.27							
					Start Time		1000, 0900							
					Abundance									
					Transect Walk									
					T1	T2	T3	T5					Heard	Flight
			WAL	DAL	SWH	P								
Total No. of Conservation Interest Species					1	5	7	4	6	11	3	2	6	

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; SpM – Spring migrant; Sv – Summer Visitor; UR – Uncommon resident; SWV – Scarce winter visitor; CWV - Common Winter Visitor; 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)
(VU): Vulnerable in IUCN Red List Status
RC=Regional Concern; LC=Local Concern; PRC=Potential Regional Concern; GC=Global Concern. Letters in parentheses indicate that the assessment is on the basis of restrictedness in breeding and/or roosting sites rather than in general occurrence (Fellowes et al. (2002)
WAL: Wet Agricultural Land
DAL: Dry Agricultural Land
SWH: Shallow Water Habitat
P: Pond

Appendix L1h. Avifauna Species Recorded for Water Birds Monitoring, 28 & 25 March 2024, Low Tide

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		28/3/2024 (T1 & T2), 25/3/2024 (T3 & T5)							
					Weather Condition		Sunny, Sunny							
					Tidal Condition		Low							
					Tide Level (m)		1.27, 1.43							
					Start Time		1600, 1400							
					Abundance									
					Transect Walk									
					T1	T2	T3	T5				Heard	Flight	
			WAL	DAL	SWH	P								
Alexandrine Parakeet	<i>Psittacula eupatria</i>	亞歷山大鸚鵡	RR	NT, Cap. 586	2									
Amur Stonechat	<i>Saxicola stejnegeri</i>	黑喉石鵯	WV					2						
Asian Koel	<i>Eudynamys scolopacea</i>	噪鵲	R		1	1						1		
Besra	<i>Accipiter virgatus</i>	松雀鷹	R, CPM	Cap.586									1	
Black Kite	<i>Milvus migrans</i>	黑鳶	R, WV	(RC), Cap. 586	1								1	
Black-collared Starling	<i>Gracupica nigricollis</i>	黑領椋鳥	R		3		3		3					
Black-winged Stilt	<i>Himantopus himantopus</i>	黑翅長腳鵯	PM	RC			4			96	13			
Chinese Pond Heron	<i>Ardeola bacchus</i>	池鷺	R	PRC(RC)	3	6	3		1	4				
Cinereous Tit	<i>Parus cinereus</i>	蒼背山雀	R			2								
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			4				
Common Sandpiper	<i>Actitis hypoleucos</i>	磯鵯	WV, PM							1				
Common Snipe	<i>Gallinago gallinago</i>	扇尾沙錐	WV, PM					1						
Crested Myna	<i>Acridotheres cristatellus</i>	八哥	R		2									
Eastern Cattle Egret	<i>Bubulcus coromandus</i>	牛背鷺	R, PM	(LC)		1		4	8					
Eastern Yellow Wagtail	<i>Motacilla tschutschensis</i>	東黃鵲鴝	PM, WV						1					

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		28/3/2024 (T1 & T2), 25/3/2024 (T3 & T5)							
					Weather Condition		Sunny, Sunny							
					Tidal Condition		Low							
					Tide Level (m)		1.27, 1.43							
					Start Time		1600, 1400							
					Abundance									
					Transect Walk									
					T1	T2	T3	T5						
			WAL	DAL	SWH	P	Heard	Flight						
Eurasian Teal	<i>Anas crecca</i>	綠翅鴨	WV	RC						3				
Eurasian Tree Sparrow	<i>Passer montanus</i>	樹麻雀	R			5								
Garganey	<i>Spatula querquedula</i>	白眉鴨	PM							4				
Great Egret	<i>Ardea alba</i>	大白鷺	R, WV	PRC(RC)	2	6	1					1		
Greater Coucal	<i>Centropus sinensis</i>	褐翅鴉鵂	R	(VU)								2		
Greater Painted-snipe	<i>Rostratula benghalensis</i>	彩鶺	R	LC				1						
Green Sandpiper	<i>Tringa ochropus</i>	白腰草鶺	UPM, WV		1									
Grey Heron	<i>Ardea cinerea</i>	蒼鷺	WV	PRC			1							
Grey-headed Lapwing	<i>Vanellus cinereus</i>	灰頭麥雞	WV, PM	LC						1				
Large Hawk-Cuckoo	<i>Hierococcyx sparveriioides</i>	大鷹鵂	Sv			1								
Little Egret	<i>Egretta garzetta</i>	小白鷺	R	PRC(RC)	4	2	6	1		1				
Little Ringed Plover	<i>Charadrius dubius</i>	金眶鴝	WV, PM	LC						1				
Marsh Sandpiper	<i>Tringa stagnatilis</i>	澤鶺	PM, WV	RC						1				
Masked Laughingthrush	<i>Pterorhinus perspicillatus</i>	黑臉噪鶺	R		2				5					
Oriental Magpie-Robin	<i>Copsychus saularis</i>	鵲鴝	R				1				1			
Pallas's Leaf Warbler	<i>Phylloscopus proregulus</i>	黃腰柳鶺	WV						1					
Pied Avocet	<i>Recurvirostra avosetta</i>	反嘴鶺	WV	RC						5	13			

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		28/3/2024 (T1 & T2), 25/3/2024 (T3 & T5)							
					Weather Condition		Sunny, Sunny							
					Tidal Condition		Low							
					Tide Level (m)		1.27, 1.43							
					Start Time		1600, 1400							
					Abundance									
					Transect Walk									
					T1	T2	T3	T5				Heard	Flight	
			WAL	DAL	SWH	P								
Plaintive Cuckoo	<i>Cacomantis merulinus</i>	八聲杜鵑	USV			1								
Red-billed Blue Magpie	<i>Urocissa erythrorhyncha</i>	紅咀藍鵲	R		2									
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		2									
Richard's Pipit	<i>Anthus richardi</i>	理氏鵲	WV, PM					1						
Rock Dove	<i>Columba livia</i>	原鴿	R			5								
Spotted Dove	<i>Streptopelia chinensis</i>	珠頸斑鳩	R		5	2	5					3		
Swinhoe's White-eye	<i>Zosterops simplex</i>	暗綠繡眼鳥	R		3									
White Wagtail	<i>Motacilla alba</i>	白鶇鶇	PM, WV			1	3		1					
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>	林鶇	PM, WV	LC										
Yellow-browed Warbler	<i>Phylloscopus inornatus</i>	黃眉柳鶯	WV, SpM											
Total No. of Species					15	12	12	4	10	9	4	3	5	
Total No. of Conservation Interest Species					6	4	8	3	3	8	3	0	4	

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date		28/3/2024 (T1 & T2), 25/3/2024 (T3 & T5)									
					Weather Condition		Sunny, Sunny									
					Tidal Condition		Low									
					Tide Level (m)		1.27, 1.43									
					Start Time		1600, 1400									
					Abundance											
					Transect Walk											
					T1	T2	T3	T5				Heard	Flight			
WAL	DAL	SWH	P													

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; USV - Uncommon Summer visitor; SpM – Spring migrant; UR – Uncommon resident; SWV – Scarce winter visitor; CWV - Common Winter 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: Critically endangered in IUCN Red List Status
RC=Regional Concern; LC=Local Concern; PRC=Potential Regional Concern; GC=Global Concern; PGC=Potential Global Concern. Letters in parentheses indicate that the assessment is on the basis of restrictedness in breeding and/or roosting sites rather than in general occurrence (Fellowes et al. (2002)
WAL: Wet Agricultural Land
DAL: Dry Agricultural Land
SWH: Shallow Water Habitat
P: Pond

Appendix L1i. Avifauna Species Recorded for Water Birds Monitoring, Night Survey, 22 March 2024, T5

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date: 22/3/2024					
					Start Time: 18:00					
					Abundance					
WAL	DAL	SWH	P	Heard	Flight					
Black-collared Starling	<i>Gracupica nigricollis</i>	黑領棕鳥	R						50	
Black-winged Kite	<i>Elanus caeruleus</i>	黑翅鳶	OV	LC, (VU)						1
Black-winged Stilt	<i>Himantopus himantopus</i>	黑翅長腳鷸	PM	RC	3		48			
Chinese Pond Heron	<i>Ardeola bacchus</i>	池鷺	R	PRC(RC)		20				1
Common Greenshank	<i>Tringa nebularia</i>	青腳鷸	PM, WV	RC	1					
Common Moorhen	<i>Gallinula chloropus</i>	黑水雞	R				1			
Common Snipe	<i>Gallinago gallinago</i>	扇尾沙錐	WV, PM		2					
Crested Myna	<i>Acridotheres cristatellus</i>	八哥	R						50	
Eastern Cattle Egret	<i>Bubulcus coromandus</i>	牛背鷺	R, PM	(LC)		50				
Eurasian Teal	<i>Anas crecca</i>	綠翅鴨	WV	RC			8			
Great Egret	<i>Ardea alba</i>	大白鷺	R, WV	PRC(RC)		3				
Greater Coucal	<i>Centropus sinensis</i>	褐翅鴉鵂	R	(VU)					1	
Grey Heron	<i>Ardea cinerea</i>	蒼鷺	WV	PRC		1				
Grey-headed Lapwing	<i>Vanellus cinereus</i>	灰頭麥雞	WV, PM	LC			2			
Large Hawk-Cuckoo	<i>Hierococcyx sparveroides</i>	大鷹鵂	Sv						1	
Little Egret	<i>Egretta garzetta</i>	小白鷺	R	PRC(RC)		10				
Pied Avocet	<i>Recurvirostra avosetta</i>	反嘴鷸	WV	RC			46			
White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	白胸苦惡鳥	R				3		1	
Wood Sandpiper	<i>Tringa glareola</i>	林鷸	PM, WV	LC	12		10			
Total No. of Species					4	5	7	0	5	2
Total No. of Conservation Interest Species					3	5	5	0	1	2
<p>Note: R – Resident; WV – Winter visitor; PM – Passage migrant; CPM - Common Passage Migrant; UPM – Uncommon passage migrant; CaM - Common autumn migrant;; SpM – Spring migrant; UR – Uncommon resident; CWV - Common Winter 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) (VU): Vulnerable in China Red Data Book Status</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)
WAL: Wet Agricultural Land; DAL: Dry Agricultural Land; SWH: Shallow Water Habitat; P: Pond.

Appendix L1j: Avifauna Species Recorded for Water Birds Monitoring, Night Survey, 25 March 2024, T5

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status	Date: 25/3/2024					
					Start Time: 18:00					
					Abundance					
WAL	DAL	SWH	P	Heard	Flight					
Asian Koel	<i>Eudynamys scolopacea</i>	噪鵲	R						1	
Barn Swallow	<i>Hirundo rustica</i>	家燕	PM, Sv							4
Black-collared Starling	<i>Gracupica nigricollis</i>	黑領棕鳥	R			3				
Black-winged Stilt	<i>Himantopus himantopus</i>	黑翅長腳鵲	PM	RC			10			
Chinese Pond Heron	<i>Ardeola bacchus</i>	池鷺	R	PRC(RC)			3			
Common Greenshank	<i>Tringa nebularia</i>	青腳鵲	PM, WV	RC			1			
Common Snipe	<i>Gallinago gallinago</i>	扇尾沙錐	WV, PM		6					
Crested Myna	<i>Acridotheres cristatellus</i>	八哥	R			14				
Eastern Cattle Egret	<i>Bubulcus coromandus</i>	牛背鷺	R, PM	(LC)		45				
Great Egret	<i>Ardea alba</i>	大白鷺	R, WV	PRC(RC)		6				
Greater Coucal	<i>Centropus sinensis</i>	褐翅鴉鵲	R	(VU)		1				
Grey Heron	<i>Ardea cinerea</i>	蒼鷺	WV	PRC						3
Little Egret	<i>Egretta garzetta</i>	小白鷺	R	PRC(RC)		14				
Marsh Sandpiper	<i>Tringa stagnatilis</i>	澤鵲	PM, WV	RC			1			
Masked Laughingthrush	<i>Pterorhinus perspicillatus</i>	黑臉噪鵲	R						3	
Oriental Pratincole	<i>Glareola maldivarum</i>	普通燕鴿	PM	LC	4					
Pied Avocet	<i>Recurvirostra avosetta</i>	反嘴鵲	WV	RC			9			
White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	白胸苦惡鳥	R				1			
Wood Sandpiper	<i>Tringa glareola</i>	林鵲	PM, WV	LC			3			
Total No. of Species					2	6	7	0	2	2
Total No. of Conservation Interest Species					1	4	6	0	0	1
Note: R – Resident; WV – Winter visitor; PM – Passage migrant; CPM - Common Passage Migrant; UPM – Uncommon passage migrant; CaM - Common autumn migrant; USV - Uncommon Summer visitor; SpM – Spring migrant;; CWV - Common Winter 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)										

(VU): Vulnerable in China Red Data Book Status

RC=Regional Concern; LC=Local Concern; PRC=Potential Regional Concern; GC=Global Concern; PGC=Potential Global Concern. Letters in parentheses indicate that the assessment is on the basis of restrictedness in breeding and/or roosting sites rather than in general occurrence (Fellowes et al. (2002)

WAL: Wet Agricultural Land; DAL: Dry Agricultural Land; SWH: Shallow Water Habitat; P: Pond.

Appendix L1k, Waterbirds Recorded in March 2024

Common Name	Species Name	Chinese Name	Conservation Status	Recorded habitat from the survey	Distribution in Hong Kong*
Black-winged Stilt	<i>Himantopus himantopus</i>	黑翅長腳鷸	RC	T3: River bank, River bed, in flight T5: Wet Agricultural Land, Dry Agricultural Land, Shallow Water Habitat, Pond, 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, In flight	Common resident. Widely distributed in Hong Kong.
Common Greenshank	<i>Tringa nebularia</i>	青腳鷸	RC	T3: River bank, River bed, in flight T5: Wet Agricultural Land, Shallow Water Habitat, In flight	Abundant winter visitor and migrant. Found in Deep Bay area.
Common Kingfisher	<i>Alcedo atthis</i>	普通翠鳥		2: River bank, 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: Dry Agricultural Land, Pond	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, In flight T2: River bank, In flight T3: River bank T5: Wet 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: Wet Agricultural Land, Dry Agricultural Land, Shallow Water Habitat, In flight	Common passage migrant and winter visitor. Found in Long Valley, Chau Tau, Sai Kung.
Eastern Cattle Egret	<i>Bubulcus coromandus</i>	牛背鷺	(LC)	T2: River bank T5: Wet Agricultural Land, Dry Agricultural Land, In flight	Resident and common passage migrant. Widely distributed in Hong Kong.
Eurasian Teal	<i>Anas crecca</i>	綠翅鴨	RC	T3: River bed T5: Wet Agricultural Land, Dry Agricultural Land, Shallow Water	Common winter visitor. Found in Deep Bay area, Shuen Wan, Tai Lam Chung Reservoir, Victoria Harbour, urban parks.

Common Name	Species Name	Chinese Name	Conservation Status	Recorded habitat from the survey	Distribution in Hong Kong*
				Habitat, Pond, In flight	
Garganey	<i>Spatula querquedula</i>	白眉鴨		T5: 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: River bed, In flight T2: River bed T3: In flight T5: 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: 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: Wet Agricultural Land	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		T1: River bank, In flight T3: River bank, River bed, In flight T5: Wet Agricultural Land, Shallow Water Habitat, In flight	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	T2 River bank, River bed, In flight T3: River bank, River bed, In flight T5: Dry Agricultural Land, Shallow Water Habitat, In flight	Common winter visitor. Found in Deep Bay area, Starling Inlet, Kowloon Park, Cape D'Aguilar.
Grey-headed Lapwing	<i>Vanellus cinereus</i>	灰頭麥雞	WV, PM	T5: Wet Agricultural Land, Shallow Water Habitat	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	Common resident. Widely distributed in coastal area throughout Hong Kong.

Common Name	Species Name	Chinese Name	Conservation Status	Recorded habitat from the survey	Distribution in Hong Kong*
				Habitat, In flight	
Little Ringed Plover	<i>Charadrius dubius</i>	金眶鸻	LC	T3: River bank, River bed, In flight T5: Dry Agricultural Land, Shallow Water Habitat, In flight	Resident, common winter visitor and passage migrant. Widely distributed in freshwater areas throughout Hong Kong.
Marsh Sandpiper	<i>Tringa stagnatilis</i>	澤鵞	RC	T3: River bank, River bed, In flight T5: Shallow Water Habitat	Abundant winter visitor and migrant. Found in Deep Bay area, Shuen Wan, Long Valley, Kam Tin, Sai Kung.
Northern Shoveler	<i>Spatula clypeata</i>	琵嘴鴨	WV	T5: Pond, in flight	Abundant winter visitor. Found in Deep Bay area.
Oriental Pratincole	<i>Glareola maldivarum</i>	普通燕鵞	LC	T5: Dry Agricultural Land, In flight	Passage migrant. Found in Mai Po, Tsim Bei Tsui.
Pied Avocet	<i>Recurvirostra avosetta</i>	反嘴鵞	RC	T5: Wet Agricultural Land, Shallow Water Habitat, Pond, In flight	Abundant winter visitor. Found in Deep Bay area.
Pied Kingfisher	<i>Ceryle rudis</i>	斑魚狗	(LC)	T1: In flight T2: In flight	Uncommon resident. Widely distributed in lakes and ponds throughout Hong Kong.
White-breasted Waterhen	<i>Amaurornis phoenicurus</i>	白胸苦惡鳥		T3: River bank T5: Wet Agricultural Land, Dry Agricultural Land, Shallow Water Habitat, In flight	Common resident. Widely distributed in wetland throughout Hong Kong.
White-throated Kingfisher	<i>Halcyon smyrnensis</i>	白胸翡翠	(LC)	T1: River bank, River bed, In flight T3: River bank, River bed, In flight T5: Dry Agricultural Land, Shallow Water Habitat	Common resident. Widely distributed in coastal areas throughout Hong Kong.
Wood Sandpiper	<i>Tringa glareola</i>	林鵞	LC	T5: Wet Agricultural Land, Dry Agricultural Land, 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</p>					

Common Name	Species Name	Chinese Name	Conservation Status	Recorded habitat from the survey	Distribution in Hong Kong*
RC=Regional Concern; LC=Local Concern; PRC=Potential Regional Concern; GC=Global Concern; PGC=Potential Global Concern. Letters in parentheses indicate that the assessment is on the basis of restrictedness in breeding and/or roosting sites rather than in general occurrence (Fellowes et al. (2002) *Source: Hong Kong Biodiversity Database, AFCD (https://www.afcd.gov.hk/English/conservation/hkbiodiversity/database/search.php)					

Appendix L1I. Birds Recorded in March 2024

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status
Alexandrine Parakeet	<i>Psittacula eupatria</i>	亞歷山大鸚鵡	RR	NT, Cap. 586
Amur Stonechat	<i>Saxicola stejnegeri</i>	黑喉石鵯	WV	
Asian Koel	<i>Eudynamys scolopacea</i>	噪鵲	R	
Azure-winged Magpie	<i>Cyanopica cyanus</i>	灰喜鵲	R	
Barn Swallow	<i>Hirundo rustica</i>	家燕	PM, Sv	
Besra	<i>Accipiter virgatus</i>	松雀鷹	R, CPM	Cap.586
Black Kite	<i>Milvus migrans</i>	黑鳶	R, WV	(RC), Cap. 586
Black-collared Starling	<i>Gracupica nigricollis</i>	黑領椋鳥	R	
Black-winged Kite	<i>Elanus caeruleus</i>	黑翅鳶	OV	LC, (VU)
Black-winged Stilt	<i>Himantopus himantopus</i>	黑翅長腳鷸	PM	RC
Chestnut-eared Bunting	<i>Emberiza fucata</i>	栗耳鵯	SPM	LC
Chinese Bulbul	<i>Pycnonotus sinensis</i>	白頭鶇	R	
Chinese Pond Heron	<i>Ardeola bacchus</i>	池鷺	R	PRC(RC)
Cinereous Tit	<i>Parus cinereus</i>	蒼背山雀	R	
Collared Crow	<i>Corvus torquatus</i>	白頸鴉	UR	LC, VU
Common Greenshank	<i>Tringa nebularia</i>	青腳鷸	PM, WV	RC
Common Kestrel	<i>Falco tinnunculus</i>	紅隼	CaM, WV	Cap. 586
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 Sandpiper	<i>Actitis hypoleucos</i>	磯鷸	WV, PM	
Common Snipe	<i>Gallinago gallinago</i>	扇尾沙錐	WV, PM	
Common Tailorbird	<i>Orthotomus sutorius</i>	長尾縫葉鶯	R	
Crested Myna	<i>Acridotheres cristatellus</i>	八哥	R	
Crested Serpent Eagle	<i>Spilornis cheela</i>	蛇鵲	UR	Cap.586, (VU)
Daurian Redstart	<i>Phoenicurus aureus</i>	北紅尾鶇	WV	

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status
Dusky Warbler	<i>Phylloscopus fuscatus</i>	褐柳鶯	PM, WV	
Eastern Buzzard	<i>Buteo japonicus</i>	普通鵟	WV	Cap.586
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	
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 Coucal	<i>Centropus sinensis</i>	褐翅鴉鵂	R	(VU)
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-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 Hawk-Cuckoo	<i>Hierococcyx sparveriioides</i>	大鷹鴉	Sv	
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 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	
Marsh Sandpiper	<i>Tringa stagnatilis</i>	澤鶺鴒	PM, WV	RC
Masked Laughingthrush	<i>Pterorhinus perspicillatus</i>	黑臉噪鶺鴒	R	
Northern Shoveler	<i>Spatula clypeata</i>	琵嘴鴨	WV	RC
Olive-backed Pipit	<i>Anthus hodgsoni</i>	樹鶺鴒	WV	
Oriental Magpie	<i>Pica serica</i>	喜鶺鴒	R	
Oriental Magpie-Robin	<i>Copsychus saularis</i>	鶺鴒	R	

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status
Oriental Pratincole	<i>Glareola maldivarum</i>	普通燕鴿	PM	LC
Pallas's Leaf Warbler	<i>Phylloscopus proregulus</i>	黃腰柳鶯	WV	
Pied Avocet	<i>Recurvirostra avosetta</i>	反嘴鷗	WV	RC
Pied Kingfisher	<i>Ceryle rudis</i>	斑魚狗	UR	(LC)
Plain Prinia	<i>Prinia inornata</i>	純色鷓鴣	R	
Plaintive Cuckoo	<i>Cacomantis merulinus</i>	八聲杜鵑	USV	
Red-billed Blue Magpie	<i>Urocissa erythrorhyncha</i>	紅咀藍鵲	R	
Red-billed Starling	<i>Spodiopsar sericeus</i>	絲光椋鳥	WV	GC
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>	紅耳鶇	R	
Richard's Pipit	<i>Anthus richardi</i>	理氏鵲	WV, PM	
Rock Dove	<i>Columba livia</i>	原鴿	R	
Scaly-breasted Munia	<i>Lonchura punctulata</i>	斑文鳥	R	
Spotted Dove	<i>Streptopelia chinensis</i>	珠頸斑鳩	R	
Spotted Redshank	<i>Tringa erythropus</i>	鶴鷗	SpM	RC
Swinhoe's White-eye	<i>Zosterops simplex</i>	暗綠繡眼鳥	R	
White Wagtail	<i>Motacilla alba</i>	白鷓鴣	PM, WV	
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>	林鷗	PM, WV	LC
Yellow-bellied Prinia	<i>Prinia flaviventris</i>	黃腹鷓鴣	R	
Yellow-browed Warbler	<i>Phylloscopus inornatus</i>	黃眉柳鶯	WV, SpM	

Common Name	Species Name	Chinese Name	Hong Kong Status	Conservation Status
<p>Note:</p> <p>R – Resident; WV – Winter visitor; PM – Passage migrant; CPM - Common Passage Migrant; UPM – Uncommon passage migrant; UR – Uncommon resident; SPM - Scarce Passage Migrant; SpM – Spring Migrant; ; USV - Uncommon Summer visitor; Sv – Summer Visitor; SSv – Spring & Summer Visitor; SWV – Scarce winter visitor;</p> <p>Cap.586 : Endangered Species of Animals and Plants Ordinance (Cap.586)</p> <p>VU: Vulnerable on IUCN Red List of Threatened Species.</p> <p>(VU): Vulnerable in China Red Data Book Status</p> <p>(EN): Endangered in China Red Data Book 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 L2. Mammal Species Recorded for Ecologically Sensitive Habitat Monitoring, 5 & 11 March 2024

Common Name	Species Name	Chinese Name	Conservation Status	Occurrence Status	Date: 11/3/2024 (T1,6), 5/3/2024 (T3,4,5)				
					Relative Abundance				
					Transect Walk				
					T1	T3	T4	T5	T6
Domestic Dog	<i>Canis lupus familiaris</i>	野狗		Introduced	++	+	++		+
Domestic Ox	<i>Bos taurus</i>	黃牛		Introduced	+++				
Eurasian Wild Pig	<i>Sus scrofa</i>	野豬		Native					+
Japanese Pipistrelle	<i>Pipistrellus abramus</i>	東亞家蝠	Cap. 170	Native	+++	+++	+++		+++
Total No. of species					3	2	2	0	3
Total No. of Conservation Interest Species					1	1	1	0	1
Total No. of Native Species					1	1	1	0	2
<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, 5 & 11 March 2024

Common Name	Species Name	Chinese Name	Conservation Status	Occurrence Status	Date: 11/3/2024 (T1,6) , 5/3/2024 (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		+		+++	+
Greenhouse Frog	<i>Eleutherodactylus planirostris</i>	溫室蟾	-	Exotic				+++	
Marbled Pigmy Frog	<i>Microhyla pulchra</i>	花姬蛙	-	Native	++				
Spotted Narrow-mouthed Frog	<i>Kalophrynus interlineatus</i>	花細狹口蛙	(NT)	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				+	
Long-tailed Skink	<i>Eutropis longicaudata</i>	長尾南蜥	-	Native	++	+	+	++	
Chinese Skink	<i>Plestiodon chinensis chinensis</i>	石龍子	-	Native				+	
Total No. of species					4	3	1	5	1
Total No. of Conservation Interest Species					1	0	0	0	0
Total No. of Native Species					4	3	1	4	1
<p>Note:</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, 5 & 11 March 2024

Common Name	Species Name	Chinese Name	Conservation Status	Occurrence Status*	Date: 11/3/2024 (T1,6), 5/3/2024 (T3,4,5)				
					Relative Abundance				
					Transect Walk				
					T1	T3	T4	T5	T6
Glassy Tiger	<i>Parantica aglea</i>	絹斑蝶						+	
Grey Scrub Hopper	<i>Aeromachus jhora</i>	寬鐔弄蝶	R					+	
Formosan Swift	<i>Borbo cinnara</i>	杣弄蝶				+			
Common Hedge Blue	<i>Acytolepis puspa</i>	鈕灰蝶			+			+	
Long-tailed Blue	<i>Lampides boeticus</i>	亮灰蝶					+		
Pale Grass Blue	<i>Pseudozizeeria maha</i>	酢漿灰蝶				++	+	++	
Tailless Line Blue	<i>Prosotas dubiosa</i>	疑波灰蝶						+	
Staff Sergeant	<i>Athyma selenophora</i>	新月帶蛺蝶					+		
Common Cerulean	<i>Jamides celeno</i>	錫冷雅灰蝶	R		+				
Rustic	<i>Cupha erymanthis</i>	黃襟蛺蝶						+	
Common Mapwing	<i>Cyrestis thyodamas</i>	網絲蛺蝶						+	
Common Sailer	<i>Neptis hylas</i>	中環蛺蝶			+		+	+	
Great Egg-fly	<i>Hypolimnas bolina</i>	幻紫斑蛺蝶						++	
Lemon Pansy	<i>Junonia lemonias</i>	蛇眼蛺蝶				+		+	
Chinese Peacock	<i>Papilio bianor</i>	碧鳳蝶			+				
Common Bluebottle	<i>Graphium sarpedon</i>	青鳳蝶			+	++	+	++	
Swallowtail	<i>Papilio xuthus</i>	柑橘鳳蝶	R			+			
Common Mormon	<i>Papilio polytes</i>	玉帶鳳蝶					+++	+++	
Great Mormon	<i>Papilio memnon</i>	美鳳蝶			+		+	+	

Common Name	Species Name	Chinese Name	Conservation Status	Occurrence Status*	Date: 11/3/2024 (T1,6), 5/3/2024 (T3,4,5)				
					Relative Abundance				
					Transect Walk				
					T1	T3	T4	T5	T6
Paris Peacock	<i>Papilio paris</i>	巴黎翠鳳蝶			+	+	+++	+++	
Red Helen	<i>Papilio Helenus</i>	玉斑鳳蝶			+	+	+++	+	
Spangle	<i>Papilio protenor</i>	藍鳳蝶			+	++	+	+++	
Tailed Jay	<i>Graphium agamemnon</i>	統帥青鳳蝶						+	
Common Grass Yellow	<i>Eurema hecabe</i>	寬邊黃粉蝶				+		+	
Lemon Emigrant	<i>Catopsilia pomona</i>	遷粉蝶					+	+	
Red-base Jezebel	<i>Delias pasithoe</i>	報喜斑粉蝶			+	+++	+	+++	
Great Orange Tip	<i>Hebomoia glaucippe</i>	鶴頂粉蝶				+			
Small White	<i>Pieris rapae</i>	菜粉蝶	R		+++	+++	+++	+++	+
Three-spot Grass Yellow	<i>Eurema blanda</i>	槩黃粉蝶				+		+	
Plum Judy	<i>Abisara echerius</i>	蛇目褐蛺蝶						+	
Common Evening Brown	<i>Melanitis leda</i>	暮眼蝶						+	
Common Five-ring	<i>Ypthima baldus</i>	雙眼蝶				+		+++	
Dark Brand Bush Brown	<i>Mycalesis mineus</i>	小眉眼蝶			+			+++	
South China Bush Brown	<i>Mycalesis mineus</i>	平頂眉眼蝶			+	+		+	
Total No. of species					13	15	13	27	1
Total No. of Conservation Interest Species					2	2	1	2	1
Note:									
*Very limited data are available for the occurrence status (being native to Hong Kong) of butterflies									

Common Name	Species Name	Chinese Name	Conservation Status	Occurrence Status*	Date: 11/3/2024 (T1,6), 5/3/2024 (T3,4,5)				
					Relative Abundance				
					Transect Walk				
					T1	T3	T4	T5	T6
<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>Conservation Status:</p> <p>LC: Local Concern (Fellowes et al., 2002)</p> <p>R: Rare (Chan et al. (2011))</p>									

Appendix L5. Odonata Species Recorded for Ecologically Sensitive Habitat Monitoring, 5 & 11 March 2024

Common Name	Species Name	Chinese Name	Conservation Status	Occurrence Status	Date: 11/3/2024 (T1,6), 5/3/2024 (T3,4,5)				
					Relative Abundance				
					Transect Walk				
					T1	T3	T4	T5	T6
Blue Chaser	<i>Potamarcha congener</i>	濕地狹翅蜻	LC	Native				+	
Green Skimmer	<i>Orthetrum sabina</i>	狹腹灰蜻		Native			+		
Orange-tailed Sprite	<i>Ceragrion auranticum</i>	翠胸黃螳		Native				++	
Russet Percher	<i>Neurothemis fulvia</i>	網脈蜻		Native				++	
Wandering Glider	<i>Pantala flavescens</i>	黃蜻		Native				+++	
Yellow Featherlegs	<i>Copera marginipes</i>	黃狹扇螳		Native	+			+	
Total No. of species					1	0	1	5	0
Total No. of Conservation Interest Species					0	0	0	1	0
Total No. of Native Species					1	0	1	5	0
<p>Note:</p> <p>LC: Local Concern (Fellowes et.al., 2002)</p> <p>+: species recorded within transect routes</p> <p>++: species commonly recorded within transect routes</p> <p>+++: dominant species within transect routes</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 March 24	13.3	72	Trace
2 March 24	12	74	0.3
3 March 24	16.1	81	0.2
4 March 24	19.7	91	1.4
5 March 24	24.3	87	Trace
6 March 24	22.9	85	0.1
7 March 24	18.7	72	Trace
8 March 24	18.8	64	0.2
9 March 24	16.6	73	2.1
10 March 24	16	83	4.6
11 March 24	17.2	91	11.7
12 March 24	19.3	61	0
13 March 24	19.4	66	Trace
14 March 24	19.8	71	0
15 March 24	20.2	79	0
16 March 24	20.7	88	Trace
17 March 24	23.1	86	0

Date	Mean Air Temperature (°C)	Mean Relative Humidity (%)	Precipitation (mm)
18 March 24	21	92	0.6
19 March 24	21.2	69	0.3
20 March 24	20.8	54	0
21 March 24	20.7	65	Trace
22 March 24	22.5	83	Trace
23 March 24	24.7	84	0
24 March 24	26.4	77	0
25 March 24	25.9	79	0
26 March 24	26.2	79	0
27 March 24	22.4	82	Trace
28 March 24	24.7	82	0
29 March 24	25.5	81	Trace
30 March 2024	26.4	80	Trace
31 March 2024	27.1	84	0.1

* 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; 5. Increase monitoring frequency to daily; 6. Discuss with IEC, ER and Contractor on remedial actions required; 7. If exceedance continues, arrange meeting with IEC and ER; and 8. If exceedance stops, cease additional monitoring.</p>	<p>Implementation of remedial measures.</p>		<p>agreed proposals; and 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; 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.</p>	<p>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</p>	<p>1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; and 3. Supervise and ensure remedial measures properly implemented.</p>	<p>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.</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.

	<p>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>			
LIMIT LEVEL				
1.Exceedance for one sample	<p>1. 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 measures.</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>
2.Exceedance for two or more consecutive samples	<p>1. Notify IEC, ER, Contractor and EPD;</p> <p>2. Identify source;</p> <p>3. Repeat measurement to confirm findings;</p> <p>4. Increase monitoring frequency to daily;</p> <p>5. Carry out analysis of Contractor’s working</p>	<p>1. Discuss amongst ER, ET, and Contractor on the potential remedial actions;</p> <p>2. Review Contractor’s remedial actions whenever necessary to assure</p>	<p>1. Confirm receipt of notification of failure in writing;</p> <p>2. Notify Contractor;</p> <p>3. In consultation with the ET and IEC, agree with the Contractor on the</p>	<p>1. Take immediate action to avoid further exceedance;</p> <p>2. Submit proposals for remedial actions to ER with a copy to ET and IEC within 3 working days of notification;</p>

	<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>	<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).
<p>Operational Phase</p>				
<p>Action Level</p>	<ol style="list-style-type: none"> 1. Check monitoring 	<ol style="list-style-type: none"> 1. Check monitoring 	<ol style="list-style-type: none"> 1. Confirm receipt of 	<ol style="list-style-type: none"> 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>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/audits 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 Report1**(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	0	0	0
	Turbidity	0	1	0	3
	SS	0	1	0	3
	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
	Non-Aquatic Fauna	5	4	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	240305
Date	5 March 2024 (Tuesday)
Time	9:30 – 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. Noise	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Land Contamination	
	• No environmental deficiency was identified during site inspection.	
	G. Landfill Gas Hazard	
	• No environmental deficiency was identified during site inspection.	
	H. Cultural Heritage	
	• No environmental deficiency was identified during site inspection.	
	I. Landscape and Visual	
	• No environmental deficiency was identified during site inspection.	
	J. Ecology	
	• No environmental deficiency was identified during site inspection.	
	K. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	L. Others	
	• Follow-up on previous audit section (Ref. No.:240229), all environmental deficiency were rectified/improved by Contractor.	

	Name	Signature	Date
Recorded by	Adrian Lam		5 March 2024
Checked by	Dr. Priscilla Choy		5 March 2024


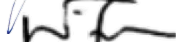
Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

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

Weekly Site Inspection Record Summary

Checklist Reference Number	240313
Date	13 March 2024 (Wednesday)
Time	14:00 – 15:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Air Quality	
240313-R01	<ul style="list-style-type: none"> Dust suppression measures should be enhanced at Portion 1C. Dusty haul road was observed. Water-spraying truck in operation was observed too. Might consider water-spraying more frequently. 	B 1
	C. Noise	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	D. Water Quality	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	E. Waste / Chemical Management	
240313-R02	<ul style="list-style-type: none"> Construction waste accumulated on site at Pak Shek Au should be avoided. 	E 1i
	F. Land Contamination	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	G. Landfill Gas Hazard	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	H. Cultural Heritage	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	I. Landscape and Visual	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	J. Ecology	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	K. 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.:240305), no major environmental deficiency was observed during the site inspection. 	

	Name	Signature	Date
Recorded by	Marco Ma		13 March 2024
Checked by	Dr. Priscilla Choy		13 March 2024

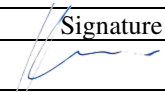

Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

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

Weekly Site Inspection Record Summary

Checklist Reference Number	240319
Date	19 March 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	
	• No environmental deficiency was identified during site inspection.	
	C. Noise	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
240319-R01	• Temporary drainage system at Pak Shek Au should be maintained regularly to assure the water pump operates properly.	D 6
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Land Contamination	
	• No environmental deficiency was identified during site inspection.	
	G. Landfill Gas Hazard	
	• No environmental deficiency was identified during site inspection.	
	H. Cultural Heritage	
	• No environmental deficiency was identified during site inspection.	
	I. Landscape and Visual	
	• No environmental deficiency was identified during site inspection.	
	J. Ecology	
	• No environmental deficiency was identified during site inspection.	
	K. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	L. Others	
	• Follow-up on previous audit section (Ref. No.:240313), all environmental deficiencies were observed improved/rectified during the site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		19 March 2024
Checked by	Dr. Priscilla Choy		19 March 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	240326
Date	26 March 2024 (Tuesday)
Time	10:00 – 11:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Air Quality	
240326-R01	<ul style="list-style-type: none"> Dust suppression measures should be enhanced for the stockpiles of dusty materials at P13. 	B2
	C. Noise	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	D. Water Quality	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	E. Waste / Chemical Management	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	F. Land Contamination	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	G. Landfill Gas Hazard	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	H. Cultural Heritage	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	I. Landscape and Visual	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	J. Ecology	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	K. 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.:240319), all environmental deficiencies were observed improved/rectified during the site inspection. 	

	Name	Signature	Date
Recorded by	Ivy Tam		26 March 2024
Checked by	Dr. Priscilla Choy		26 March 2024

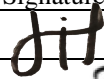

Service Contract No. NDO 04/2919 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

ND/2919/02 – 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	240306
Date	6 March 2024 (Wednesday)
Time	9:30 – 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	
240306-R02	• Water mitigation measures should be enhanced for the works area at Portion to prevent muddy runoff from discharging into nearby water bodies (Shek Sheung River and Sheung Yue River).	D3
240306-R03	• Vehicles exits should be paved to ensure vehicles remain clean when leaving the site. (Portion 4,5 & 11)	D12v
240306-R04	• Provide maintenance for the existing water mitigation measure.	D4
240306-R05	• Provide tarpaulin for exposed slope.	D7
240306-R07	• Review the drainage system to ensure the existing water pipe was connected to wetsep and discharged into a valid location.	D5
	E. Waste / Chemical Management	
240306-R06	• Provide drip tray for chemical/fuel containers.	E14
	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	
240306-R01	• The removed green hoarding along Sheung Yue River due to the construction works should be replaced and maintained properly as soon as possible.	H1
	I. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	L. Others	
	• Follow-up on previous audit section (Ref. No.:240228), item no. 240228-R02, 240228-R05, 240228-R06 and 240228-R07 were improved/rectified by the Contractor. Item no. 240228-R01, 240228-R03, 240228-R04 and 240228-R08 were remarked as 240306-R01, 240306-R02, 240306-R03 and 240306-R04, respectively. Follow-up actions are needed to be reviewed.	

	Name	Signature	Date
Recorded by	Him Ng		8 March 2024
Checked by	Dr. Priscilla Choy		8 March 2024

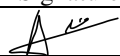

Service Contract No. NDO 04/2919 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

ND/2919/02 – 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	240313
Date	13 March 2024 (Wednesday)
Time	9:30 – 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	
240313-R02	• Review the drainage system to ensure the existing water pipe was connected to wetsep and discharged into a valid location.	D 5
240313-R03	• Vehicles exits should be paved to ensure vehicles remain clean when leaving the site. (Portion 4,5 & 11)	D 12 v
240313-R04	• Review the capacity of wastewater treatment facilities in Dill’s Corner works area to ensure wastewater were properly treated and settled prior to discharge.	D 5 iii
240313-R05	• Ensure that vehicles leaving the Dill’s Corner works area are properly cleaned.	D 12 i
	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	
240313-R01	• The removed green hoarding along Sheung Yue River due to the construction works should be replaced and maintained properly as soon as possible.	H1
	I. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	L. Others	
	• Follow-up on previous audit section (Ref. No.:240306), item no. 240306-R01, 240306-R03 and 240306-R07 were remarked as 240313-R01, 240313-R03, and 240313-R02, respectively. Follow-up actions are needed to be reviewed.	

	Name	Signature	Date
Recorded by	Adrian Lam		14 March 2024
Checked by	Dr. Priscilla Choy		14 March 2024



Service Contract No. NDO 04/2919 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/2919/02 – 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	240320
Date	20 March 2024 (Wednesday)
Time	9:30 – 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	
240320-R02	• Review the drainage system to ensure the existing water pipe was connected to wetsep and discharged into a valid location.	D 5
240320-R03	• Vehicles exits should be paved to ensure vehicles remain clean when leaving the site. (Portion 4 & 5)	D 12 v
240320-R04	• Ensure that vehicles leaving the Dill’s Corner works area are properly cleaned.	D 12 i
	E. Waste / Chemical Management	
240320-R05	• Provide drip tray for chemical storage at the Dill’s Corner works area.	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	
240320-R01	• The removed green hoarding along Sheung Yue River due to the construction works should be replaced and maintained properly as soon as possible.	H1
	I. Permits/Licences	
240320-R06	• Provide updated relevant Environmental Permit for displaying onsite.	I 5
	L. Others	
	• Follow-up on previous audit section (Ref. No.:240313), item no. 240313-R01, 240313-R02, 240313-R03 and 240313-R05 were remarked as 240320-R01, 240320-R02, 240320-R03, and 240320-R04, respectively. Follow-up actions are needed to be reviewed.	

	Name	Signature	Date
Recorded by	Adrian Lam		20 March 2024
Checked by	Dr. Priscilla Choy		20 March 2024

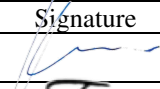

Service Contract No. NDO 04/2919 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

ND/2919/02 – 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	240327
Date	27 March 2024 (Wednesday)
Time	9:30 – 11:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Air Quality	
240327-R05	• Enhance the mitigation measures of the stockpile of soil in Dill’s Corner.	B 2
	C. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
240327-R02	• Review the drainage system to ensure the existing water pipe was connected to wetsep and discharged into a valid location.	D 5
240327-R03	• Vehicles exits should be paved to ensure vehicles remain clean when leaving the site. (Portion 5)	D 12 v
240327-R04	• Ensure that vehicles leaving the Dill’s Corner works area are properly cleaned.	D 12 i
240327-R06	• Avoid muddy water discharge to Sheung Yue River directly outside the Visitor Center.	D 5i
240327-R07	• Review the capacity of the silt tank at Portion 5.	D 5iii
	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	
240327-R01	• The removed green hoarding along Sheung Yue River due to the construction works should be replaced and maintained properly as soon as possible.	H 1
	I. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	L. Others	
	• Follow-up on previous audit section (Ref. No.:240320), item no. 240320-R01, 240320-R02, 240320-R03 and 240320-R04 were remarked as 240327-R01, 240327-R02, 240327-R03, and 240327-R04 respectively. Follow-up actions are needed to be reviewed. • Item no. 240320-R05 and 240320-R06 were observed improved/rectified by the Contractor during the site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		27 March 2024
Checked by	Dr. Priscilla Choy		27 March 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	240301
Date	1 March 2024 (Friday)
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>	
	• No environmental deficiency was identified during site inspection.	
	<i>C. Construction Noise Impact</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>	
240301-R01	• General refuse in the drip tray should be removed to ensure the drip trays functionality.	E 14
	<i>F. Landscape & Visual</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>G. Ecology</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>H. Permits/Licences</i>	
	• No environmental deficiency was identified during site inspection.	
	<i>I. Others</i>	
	Follow-up on previous audit section (Ref. No.:240220), all environmental deficiency were rectified/improved by the Contractor.	

	Name	Signature	Date
Recorded by	Adrian Lam		1 March 2024
Checked by	Dr. Priscilla Choy		1 March 2024


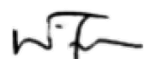
Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

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	240308
Date	8 March 2024 (Friday)
Time	09:30-10:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
240308-R01	• General refuse in the drip tray should be removed to ensure the drip tray's functionality.	E 14
	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.:240301), follow-up actions were required, item 240301-R01 was remarked 240308-R01.	

	Name	Signature	Date
Recorded by	Adrian Lam		8 March 2024
Checked by	Dr. Priscilla Choy		8 March 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	240315
Date	15 March 2024 (Friday)
Time	11:00-11:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
240315-R01	• General refuse in the drip tray should be removed to ensure the drip tray's functionality.	E 14
	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.:240308), follow-up actions were required, item 240308-R01 was remarked 240315-R01.	

	Name	Signature	Date
Recorded by	Adrian Lam		16 March 2024
Checked by	Dr. Priscilla Choy		16 March 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	240319
Date	19 March 2024 (Tuesday)
Time	14:00 – 14:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Landscape & 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.:240315), all environmental deficiency was rectified/ improved by Contractor.	

	Name	Signature	Date
Recorded by	Adrian Lam		20 March 2024
Checked by	Dr. Priscilla Choy		20 March 2024

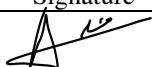
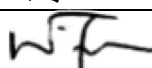
Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

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	240325
Date	25 March 2024 (Monday)
Time	10:00 – 10:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Construction Noise Impact	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Landscape & 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.:240319), no major environmental deficiency was identified during site inspection..	

	Name	Signature	Date
Recorded by	Adrian Lam		26 March 2024
Checked by	Dr. Priscilla Choy		26 March 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	240307
Date	7 March 2024 (Thursday)
Time	14:00 – 15:20

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	
240307-R01	• Enhance the water mitigation measure to avoid surface runoff at Bridge G.	D 4
240307-R02	• Provide maintenance for the silt curtain.	D 6
240307-R03	• Review the drainage system to ensure that no untreated water flow directly into the discharge point.	D 3
	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.: 240229), item 240229-R01 was remarked as 240307-R01. Follow-up action is needed to be review. Item 240229-R02 was observed improved/rectified by the Contractor during the site inspection.	

	Name	Signature	Date
Recorded by	Him Ng		8 March 2024
Checked by	Dr. Priscilla Choy		8 March 2024

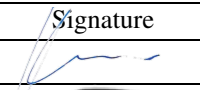

Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

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	240312
Date	12 March 2024 (Tuesday)
Time	09:30 – 10:45

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>	
240312-R01	• Enhance the water mitigation measure to avoid surface runoff at Bridge G.	D 4
240312-R02	• Review the drainage system to ensure that no untreated water flow directly into the discharge point.	D 3
	<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.: 240307), item 240307-R02 was observed improved/rectified by the Contractor during the site inspection. Item 240307-R01 and 240307-R03 were remarked as 240312-R01 and 240312-R02 respectively. Follow-up action is needed to be review.	

	Name	Signature	Date
Recorded by	Marco Ma		12 March 2024
Checked by	Dr. Priscilla Choy		12 March 2024

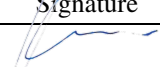
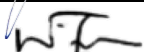
Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

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	240321
Date	21 March 2024 (Thursday)
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>	
240321-R01	• Review the drainage system to ensure that no untreated water flow directly into the discharge point.	D 3
	<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.: 240312), item 240312-R01 was observed improved/rectified by the Contractor during the site inspection. Item 240312-R02 was remarked as 240321-R01. Follow-up action is needed to be review.	

	Name	Signature	Date
Recorded by	Marco Ma		21 March 2024
Checked by	Dr. Priscilla Choy		21 March 2024


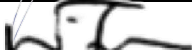
Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

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	240328
Date	28 March 2024 (Thursday)
Time	15:00 – 16:00

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>	
240328-R03	• Review the drainage system to ensure that no untreated water flow directly into the discharge point.	D 3
	<i>E. Waste / Chemical Management</i>	
240328-R02	• Accumulation of general waste should be avoided.	E 1i
	<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>	
240328-O01	• Broken silt curtain should be maintained or replaced immediately to prevent muddy water discharge.	H 5
	<i>I. Permits/Licences</i>	
240328-R01	• A copy of Environmental Permit should be displayed at the site exit conspicuously.	I 5
	<i>J. Others</i>	
	• Follow-up on previous audit section (Ref. No.: 240321), item 240321-R01 was remarked as 240328-R03. Follow-up action is needed to be review.	

	Name	Signature	Date
Recorded by	Marco Ma		28 March 2024
Checked by	Dr. Priscilla Choy		28 March 2024

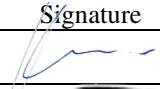

Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

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	240304
Date	4 March 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>	
240304-R01	• Water mitigation measures should be enhanced to prevent surface runoff discharge at E2-02.	D 4
	<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.: 240226), no major environmental deficiency was identified during the site inspection.	

	Name	Signature	Date
Recorded by	Marco Ma		4 March 2024
Checked by	Dr. Priscilla Choy		4 March 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	240314
Date	14 March 2024 (Thursday)
Time	09:00 – 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>	
240314-F01	• Water mitigation measures should be enhanced to prevent surface runoff discharge at E2-02.	D 4
	<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.: 240304), item no. 240304-R01 was remarked as 240314-F01. Follow-up action is needed to be reviewed.	

	Name	Signature	Date
Recorded by	Marco Ma		14 March 2024
Checked by	Dr. Priscilla Choy		14 March 2024

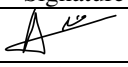

Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

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	240318
Date	18 March 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>	
240318-F01	• Water mitigation measures should be enhanced to prevent surface runoff discharge at E2-02.	D 4
	<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.: 240314), item no. 240314-F01 was remarked as 240318-F01. Follow-up action is needed to be reviewed.	

	Name	Signature	Date
Recorded by	Adrian Lam		18 March 2024
Checked by	Dr. Priscilla Choy		18 March 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	240327
Date	27 March 2024 (Wednesday)
Time	10:00 – 12:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Noise	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
240327-R01	• Water mitigation measures should be enhanced at Portion VI cycling track works area to ensure wastewater from wheel-washing would be collected and treated properly.	D 4
	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.: 240318), item no. 240318-F01 was rectified/ improved by the Contractor.	

	Name	Signature	Date
Recorded by	Adrian Lam		28 March 2024
Checked by	Dr. Priscilla Choy		28 March 2024

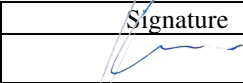

Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

ND/2019/07 – Fanling North New Development Area, Phase 1: Site Formation and Infrastructure Works

Weekly Site Inspection Record Summary

Checklist Reference Number	240301
Date	1 March 2024 (Friday)
Time	14:00 – 15:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Air Quality	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	C. Construction Noise Impact	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	D. Water Quality	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	E. Waste / Chemical Management	
240301-R01	<ul style="list-style-type: none"> Drip tray should be provided for chemical/fuel containers near Ma Sik Road. 	E 14
	F. Landscape and Visual	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	G. Ecology	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	H. Permits/Licences	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	I. Others	
	<ul style="list-style-type: none"> Follow-up on previous audit section (Ref. No.: 240223), item no. 240223-R01 was observed improved/rectified by the Contractor during the site inspection. The stockpile of dusty material within ND/2019/07 near Ma Sik Road was observed. AECOM declared that is ND/2019/04's temporary storage. The Contractor of ND/2019/04 was reminded to review and maintain regularly to prevent dust generation. 	

	Name	Signature	Date
Recorded by	Marco Ma		1 March 2024
Checked by	Dr. Priscilla Choy		1 March 2024

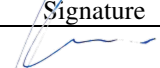

Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

ND/2019/07 – Fanling North New Development Area, Phase 1: Site Formation and Infrastructure Works

Weekly Site Inspection Record Summary

Checklist Reference Number	240308
Date	8 March 2024 (Friday)
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>	
	<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.: 240301), item no. 240301-R01 was observed improved/rectified by the Contractor 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. 	

	Name	Signature	Date
Recorded by	Marco Ma		8 March 2024
Checked by	Dr. Priscilla Choy		8 March 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	240315
Date	15 March 2024 (Friday)
Time	09:30 – 10:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Air Quality	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	C. Construction Noise Impact	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	D. Water Quality	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	E. Waste / Chemical Management	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	F. Landscape and Visual	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	G. Ecology	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	H. Permits/Licences	
	<ul style="list-style-type: none"> No environmental deficiency was identified during site inspection. 	
	I. Others	
	<ul style="list-style-type: none"> Follow-up on previous audit section (Ref. No.: 240308), no major environmental deficiency was identified during 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	Him Ng		15 March 2024
Checked by	Dr. Priscilla Choy		15 March 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	240322
Date	22 March 2024 (Friday)
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>	
	<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.: 240315), no major environmental deficiency was identified during 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		22 March 2024
Checked by	Dr. Priscilla Choy		22 March 2024

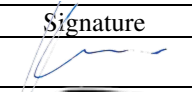

Service Contract No. NDO 04/2019 Environmental Team for Environmental Monitoring and Audit Works in Construction Phase for the First Phase Development of Kwu Tung North and Fanling North New Development Areas

ND/2019/07 – Fanling North New Development Area, Phase 1: Site Formation and Infrastructure Works

Weekly Site Inspection Record Summary

Checklist Reference Number	240328
Date	28 March 2024 (Thursday)
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>	
	<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.: 240322), no major environmental deficiency was identified during 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		28 March 2024
Checked by	Dr. Priscilla Choy		28 March 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	^ ^ ^

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. 					^ ^
S4.9	N2	Install temporary site hoarding (approx 2.4m high) located on the site boundaries between noisy construction activities and NSRs. The conditions of the hoardings shall be properly maintained throughout the construction period.	Reduce the construction noise levels at low-level zone of NSRs through partial screening.	Contractor	All construction sites where practicable	Construction phase	^
S4.9	N3	Install movable noise barriers and full enclosure and acoustic mat, screen the noisy plants including air compressor and generator.	Screen the noisy plant items to be used at all construction sites	Contractor	All construction sites where practicable	Construction phase	^
S4.9	N4	Use of “Quiet” Plant and Working Methods	Reduce the noise levels of plant items	Contractor	All construction sites where practicable	Construction phase	^
S4.9	N5	Sequencing operation of construction plants where practicable.	Operate sequentially within the same work site to reduce the construction airborne noise	Contractor	All construction sites where practicable	Construction phase	^
S4.9	N6	Implement a noise monitoring under EM&A programme.	Monitor the construction noise levels at the selected	Contractor	Selected representative	Construction phase	^

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
			representative locations		noise monitoring stations		
Water Quality Impact (Construction Phase)							
S5.7	W1	<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	<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>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	#

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
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	^

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
		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 ^

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>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	^

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
		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	<u>General Waste</u> <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	<u>Sewage</u> <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

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
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

March 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
			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

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
					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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		necessary; <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 Eating, drinking and smoking should not be allowed in the excavation areas and treatment area to avoid inadvertent ingestion of arsenic containing soil.					
Landfill Gas Hazard							
S10.6	LFG1	<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 piling 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> <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
		<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 QLFGHA 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>	Government / Detailed Design Consultant/ Contractor	Onsite	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
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>	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>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>	Achieve a natural stream, similar to existing, including wetland planting provision for embankments	Government / Developer/ Detailed Design Consultant/ Contractor	Streams and channelized watercourses e.g. a Ma Tso Lung and Siu Han San Tsuen	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
S12.9 MM14.2	LV17	Stream Buffer Planting –Providing a minimum 10 m buffer with planting (where there is a general presumption against any development taking place) along streams where they flow close to developments, confers a degree of protection to the stream course and its associated vegetation.	Protect natural streams	Government / Developer/ Detailed Design Consultant/ Contractor	Streams and channelized watercourses e.g. a Ma Tso Lung and Siu Han	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A

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		<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	Egretty Habitat Creation & Management Plan (EHCMP) and Woodland Planting and Management Plan (WPMP)	Compensate for loss of Man Kam To Road egretty. Compensate for loss of secondary woodland and hillside plantation of ecological significance.	Project Proponent/ Detailed Design Consultant (EHCMP and WPMP).	FLN area A1-7 (egretty compensation). KTN areas E1-8 and G1-3 (woodland compensation).	Detailed design phase	N/A

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S. 13.9	E2	Detailed design of development along lower reaches of Ma Tso Lung Stream and Ma Tso Lung San Tsuen Stream in OU zones F1-2 and F1-3 and detailed design of LMC Loop Eastern Connection Road with restoration of diverted stream and riparian corridor, permanent barrier and underpass on the at-grade section Compensation for the loss of seasonally wet grassland at Ma Tso Lung by habitat restoration and enhancement along diverted section of Ma Tso Lung Stream	Minimize impacts on Ma Tso Lung Stream and Ma Tso Lung San Tsuen Stream and riparian corridor of importance to species of conservation significance.	Project Proponent/ Detailed Design Consultant. (design of Ma Tso Lung Stream diversion and buffer zone habitat restoration measures)	KTN areas F1-2 and F1-3 and LMC Loop Eastern Connection Road.	Detailed design and construction phases.	N/A
S13.9	E3	Detailed design, implementation and management of Siu Hang San Tsuen Stream to have 10m wide vegetated buffer in Open Space zone D1-3, Fanling Bypass to cross stream on viaduct.	Minimize impacts on Siu Hang San Tsuen Stream and stream fauna.	PlanD, Project Proponent/ Detailed Design Consultant/ Contractor/ Maintenance Authority	FLN area D1-3.	Detailed design, construction and operation phases.	N/A
S.13.9	E4	Long Valley Nature Park (LVNP) designation, design and implementation.	Compensate for wetland loss arising from the project and protection of	Project Proponent/ Detailed Design	Long Valley KTN area C1-9 and any suitable areas to	Detailed design phase	N/A

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		Enhancement of non-wetland habitats in LVNP. Planning for the advanced provision of alternative foraging habitat along main river channels for large waterbirds.	Long Valley from adverse ecological impacts including provision of additional/alternative habitat for large waterbirds using Ng Tung, Sheung Yue and Shek Sheung River channels.	Consultant (Long Valley Nature Park Habitat Creation & Management Plan)	be identified during the planning stage		
S13.9	E5	Stringent planning control requirements in Long Valley north and west of Sheung Yue River, including Ho Sheung Heung egrettry.	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 egrettry. 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 egrettry 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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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>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

March 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>	<p>Contractor</p>	<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>	<p>Construction phase.</p>	<p>^</p>

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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>

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		<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>							

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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	^

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		<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

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		For trees associated with highways e.g. roadside planting along highways, that are unavoidably affected and should be transplanted, HyD HQ/GN/13 Interim Guidelines for Tree Transplanting Works under Highways Department's 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

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		<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 as consideration 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>	<p>N/A</p>
<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>	<p>^</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	<i>Throughout NDAs</i>	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

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		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

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		<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 ory 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. 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	<p><i>Onsite where possible.</i></p> <p><i>Otherwise consider offsite locations</i></p>	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

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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>	

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

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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/ 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- 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
		Design, should be considered and appropriate mitigation measures included ensuring the new watercourses match the existing as far as possible. Measures can include enhancement planting to upgrade the channels as appropriate, including consideration of wetland planting along embankments where appropriate; as well as consideration of the best materials for the channel lining (e.g. gabion). All measures must also ensure any necessary maintenance work can be carried out and that the channel meets all its requirements for water flow, etc. For example, a stretch of the Ma Wat River Channel in the south of FLN NDA will have to be diverted for the construction of the Fanling Bypass Eastern Section. This measure will be particularly relevant in this area.	protect watercourses where possible and enhance channelized watercourses	Consultant/ Contractor	<i>Ma Wat River Channel Diversion</i>	Phase & Maintenance in Operation Phase	
S.12.A9 MM15	LV15- DP3	Pond Replacement –Principles adopted in the design of the NDAs ensure that they incorporate ponds within the RODPs. All requirements for ponds stipulated in the planning documents for the formulation of the Preliminary Layout Plan (e.g. at Fung Kong Shan Park in E1-7 of KNT ND) should be adhered to.		Project Proponent/ Detailed Design Consultant/ Contractor/ Maintenance Authority	<i>E1-7 and C1-9 (LVNP) in KNT NDA and generally throughout NDA</i>	Prior to Construction, Construction Phase Maintenance in Operation Phase	N/A
Landscape and Visual (Construction)							
S.12.A9 MM16	LV16- DP3	Screen Hoarding –Screen hoarding shall be erected along areas of the construction works site boundary where the works site borders publically	To screen undesirable views	Contractor	<i>Throughout NDAs</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
		accessible routes and/or is close to visually sensitive receivers (VSRs). It is proposed that the screening be compatible with the surrounding environment and where possible, nonreflective, recessive colours be used. Any works areas near the ecological sensitive areas should erect 2m high dull green site boundary fence. Details can refer to the ecological impact assessment (Chapter 13 of the EIA report).	of the works site.				
S.12.A9 MM17	LV17- DP3	Light Control – Construction day and night time lighting should be controlled to minimize glare impact to adjacent VSRs during the Construction phase. Street and night time lighting shall also be controlled to minimize glare impact to adjacent VSRs during the operation phase.	To minimize glare impact to adjacent VSRs	Government / Contractor	<i>Throughout NDAs</i>	Construction and Operation Phases	N/A
Ecology (Detailed Design, Construction and Operational Phases)							
S13.9	E3-DP3	Use opaque, non-transparent, non-reflective noise barriers. Unnecessary lighting should be avoided.	Minimize mortality impacts on birds.	Detailed Design Consultant/ Contractor Maintenance Authority.	Throughout.	Detailed design, Construction and Operation phases.	^
Ecology (Construction Phase)							
S.13.9	E4-DP3	Creation of proposed Long Valley Nature Park and creation and enhancement of wetland and woodland areas and buffer planting within LVNP.	Compensate for wetland loss arising from the project.	Project Proponent/ Contractor	Long Valley	Construction phase.	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
				(LVNP Detailed Habitat Creation & Management Plan).			
S.13.9	E5-DP3	Design and erection of 2m high solid dull green site barrier fence between active works areas and all areas/habitats of ecological importance on edge of development areas, including along any roads adjacent to or penetrating into areas/habitats of ecological importance.	Minimize dust, disturbance, mortality and other adverse ecological impacts on habitats, flora and fauna. Measures to minimize flightline impacts to birds,	Contractor.	Interface between areas/habitats of ecological importance (KTN areas B1-3, H1-1) and works areas.	Construction phase.	N/A
S13.9	E6-DP3	Compensatory native woodland planting.	Compensate for loss of plantation of ecological significance.	Project Proponent / Contractor	KTN areas E1-8 and G1-3.	Construction phase.	N/A
DP4- KTN NDA Road D1 to D5 (New Road)							
Landscape and Visual (Detailed Design, Prior to Construction, Construction and Operational Phases)							
S.12.A9	LV1-DP4	General Good Practice Measures - For areas unavoidably disturbed by the Project on a short term basis e.g. works areas, the general principle to		Detailed Design Consultant/	<u>Throughout NDAs,</u>	Prior to Construction, Construction & for all	N/A

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		<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

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		<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	^

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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

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		<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>	Government Detailed Design Consultant/ Contractor	Onsite	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
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.</p> <p>Compensatory planting is proposed at the potential open areas such as</p>	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>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>	Reprovide areas of woodland to compensate for those areas of quality woodland lost.	Project Proponent/ Detailed Design Consultant/ Contractor/ Maintenance Authority	In areas identified in the EIA Landscape Mitigation Plans and as agreed with AFCD	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		<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, Rhapsiopsis 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	<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 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	<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</p>	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

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		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

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		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

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>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

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		of the presentation material (in the form of power point presentation) with content details will be prepared by an archaeologist and submitted to AMO for reference and record purpose. The first induction briefing will be video recorded and it will be used as induction briefing material for new site staff.					
S11.6.2	CH4-DP4	<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	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	<u>Undertaking baseline condition survey and baseline vibration impact assessment</u> In case any potential vibration impact on any nearby built heritage features are identified during the pre-construction stage of the Project, prior to commencement of construction works, a baseline condition survey and baseline vibration impact assessment should be conducted by a qualified building surveyor or a qualified structural engineer to define the vibration limit (a vibration limit at 15mm/s could be adopted for historic buildings) and to evaluate if construction vibration monitoring and structural strengthening measures are required during construction	To minimize the vibration impacts during preconstruction stage on any identified potential vibration impacted built heritage features	Project Proponent/ Contractor	HKT03 (Main Building) and G308	Preconstruction stage before commencement of construction works	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		phase so as to ensure the construction performance meets with the vibration standard stated in the EIA report.					
S11.6.2	CH6-DP4	<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

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>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

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>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

App Q - IMPLEMENTATION SCHEDULE AND RECOMMENDED MITIGATION MEASURES

March 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.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

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		channel lining (e.g. gabion). All measures must also ensure any necessary maintenance work can be carried out and that the channel meets all its requirements for water flow, etc. For example, a stretch of the Ma Wat River Channel in the south of FLN NDA will have to be diverted for the construction of the Fanling Bypass Eastern Section. This measure will be particularly relevant in this area.					
Landscape and Visual (Construction)							
S.12.B9 MM16	LV13- DP5	Screen Hoarding –Screen hoarding shall be erected along areas of the construction works site boundary where the works site borders publically accessible routes and/or is close to visually sensitive receivers (VSRs). It is proposed that the screening be compatible with the surrounding environment and where possible, nonreflective, recessive colours be used. Any works areas near the ecological sensitive areas should erect 2m high dull green site boundary fence. Details can refer to the ecological impact assessment (Chapter 13 of the EIA report).	To screen undesirable views of the works site.	Contractor	<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	<u>Onsite</u>	Prior to Construction and Construction Phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		tree protection measures for those trees to be retained.					
S.12.9 MM9	LV2-DP7	Vertical Greening – Planting of climbers to grow up vertical surfaces were appropriate (e.g. building edges, piers).	Soften hard surfaces and facilities	Government / Detailed Design Consultant/ Contractor	<u>On appropriate structures</u>	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	<u>On appropriate buildings</u>	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	<u>Throughout NDAs.</u>	Prior to Construction, Construction & for all planting, this should be installed as soon as the areas become	^

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
		appropriately, and where suitable and practical stored for re-use in the construction of the soft landscape works such as roadside amenity strips, and open space sites.				available, to achieve early establishment	
S.12.D9 MM1	LV2-DP10	Minimum Topographical Change –To minimize landscape and visual impacts, the footprint and elevation of such elements should be optimized to reduce topographical/ landform changes, as well as reduce land take and interference with natural terrain. Where there is a need to significantly cut into the existing landform, retaining walls should be considered as well as cut slopes, to minimize landform changes and land resumption, while also considering visual amenity. Earthworks and engineered slopes should be designed to be a visually interesting landform, compatible with the surrounding landscape and to mimic the natural contouring and terrain e.g. introduction and continuation of natural features such as spurs and ridges where appropriate, to support assimilation with the hillside setting.	Reduce topographical changes and minimize land resumption	Government/ Detailed Design Consultant/ Contractor	<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>	Government/ Detailed Design Consultant/ Contractor	<u>Onsite</u>	Prior to Construction, Construction Phase & Maintenance in Operation Phase	N/A
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>	Compensate for trees and shrubs lost due to the Project.	Government/ Detailed Design Consultant/ Contractor	<u>Onsite where possible. 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
		<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>	<p>edges and provide greening along roads.</p>	<p>Detailed Design Consultant/ Contractor</p>	<p><u>along roads.</u></p>	<p>Construction Phase & Maintenance in Operation Phase</p>	
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>	<p>Minimize the necessity of watercourse modification, protect watercourses where possible and enhance channelized watercourses</p>	<p>Government/ Detailed Design Consultant/ Contractor</p>	<p><u>Channelized watercourse,</u> <u>particularly the Ma Wat River Channel Diversion</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
		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.	<u>FLN area D1-3.</u>	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.	<u>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).</u>	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.	<u>Identified potential vibration impacted built</u>	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
<i>Landscape and Visual (Construction)</i>							
S.12.D9 MM16	LV9- DP12	Screen Hoarding –Screen hoarding shall be erected along areas of the construction works site boundary where the works site borders publically accessible routes and/or is close to visually sensitive receivers (VSRs). It is proposed that the screening be compatible with the surrounding environment and where possible, nonreflective, recessive colours be used. Any works areas near the ecological sensitive areas should erect 2m high dull green site boundary fence. Details can refer to the ecological impact assessment (Chapter 13 of the EIA report).	To screen undesirable views of the works site.	Contractor	Throughout NDAs	Construction Phase	N/A

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures (What Measures)	Objectives of the recommended Measures & Main Concerns to address (What Requirements)	Who to implement the measures? (Who)	Location of the measures (Where)	When to Implement the measures? (When)	Implementation Status
S.12.D9 MM17	LV10- DP12	Light Control – Construction day and night time lighting should be controlled to minimize glare impact to adjacent VSRs during the Construction phase. Street and night time lighting shall also be controlled to minimize glare impact to adjacent VSRs during the operation phase.	To minimize glare impact to adjacent VSRs	Government / Contractor	Throughout NDAs	Construction and Operation Phases	N/A

- Implementation status:**
- ^ Mitigation measure was fully implemented
 - * Observation/reminder was made during site audit but improved/rectified by the contractor
 - # Observation/reminder was made during site audit but not yet improved/rectified by the contractor
 - X Non-compliance of mitigation measure
 - Non-compliance but rectified by the contractor
- N/A Not Applicable at this stage as no such site activities were conducted in the reporting period

**APPENDIX R
WASTE GENERATION IN THE
REPORTING MONTH**

Name of Department: Civil Engineering and Development Department

Monthly Summary Waste Flow Table for 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	4.655	0.007	0.431	0.021	0.000	0.441
February	1.784	0.000	0.707	0.212	0.866	0.843	0.005	0.746	0.646	0.000	0.225
March	1.617	0.000	1.035	0.465	0.117	1.455	0.005	0.515	0.007	0.000	0.231
April											
May											
June											
Sub-total	11.846	0.000	3.140	1.636	7.070	6.953	0.016	1.692	0.674	0.000	0.897
July											
August											
September											
October											
November											
December											
Total	11.846	0.000	3.140	1.636	7.070	6.953	0.016	1.692	0.674	0.000	0.897

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											
May											
June											
Sub-total	8,347.18	0.00	900.00	6,931.23	0.00	0.00	0.0000	0.00	0.0000	0.000	515.950
July											
Aug											
Sept											
Oct											
Nov											
Dec											
Sub-total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	8,347.18	0.00	900.00	6,931.23	0.00	0.00	0.00	0.00	0.00	0.00	515.95

- 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
 Contract No.: ND/2019/03

Name of Department: CEDD

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											
May											
Jun											
Sub-Total	0.72	0.00	0.00	0.10	0.62	0.00	0.00	0.00	0.00	0.00	0.00
Jul											
Aug											
Sep											
Oct											
Nov											
Dec											
Total	0.72	0.00	0.00	0.10	0.62	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)	(in tonnes)
Jan	2,259.44	0.00	0.00	818.85	1348.72	0.00	0.00	0.00	0.00	0.00	0.00	91.87
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	11,368.91	0.00	6,162.61	0.00	5,097.81	0.00	0.00	0.00	0.00	0.00	0.00	108.49
Apr												
May												
June												
Sub-total	18,872.64	0.00	10,577.79	818.85	7,102.25	0.00	45.08	0.00	0.000	0.000	0.00	328.67
July												
Aug												
Sept												
Oct												
Nov												
Dec												
Sub-total	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	18,872.64	0.00	10,577.79	818.85	7,102.25	0.00	45.08	0.00	0.00	0.00	0.00	328.67

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) (see Note 3)	Yard Waste (j)	Chemical Waste (k)	Others, e.g. general refuse (l)
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000 kg)
Jan-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	2.195	0.000	0.048	0.000	2.147	0.000	0.000	0.000	0.000	0.000	0.000	135.440
Apr-24												
May-24												
Jun-24												
Sub-total	5.098	0.000	0.630	0.000	4.468	0.000	0.017	2.790	0.011	6.520	0.000	425.250
Jul-24												
Aug-24												
Sep-24												
Oct-24												
Nov-24												
Dec-24												
Total in 2024	5.098	0.000	0.630	0.000	4.468	0.000	0.017	2.790	0.011	6.520	0.000	425.250
Total of the Project since 2020	119.491	0.000	15.141	2.857	96.395	5.110	142.108	20.769	4.138	807.713	24.882	4304.730

*Approx. estimation for each dump truck is 6m³/truck or 12 ton/truck

Total Quantity of Inert C&D Materials Generated: 119.491 (in '000m³) (a) = (b)+(c)+(d)+(e)

Monthly Summary Waste Flow Table for 2024 (year)

Name of Person completing the record: KM LUI (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	0	0	0	0	0	0	0	0	0	0.037
Mar	0	0	0	0	0	0	0	0	0	0	0.017
Apr											
May											
Jun											
Sub-total	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.094
Jul											
Aug											
Sep											
Oct											
Nov											
Dec											
Total	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.094

- 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

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
			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

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				preventing recurrence of idling construction equipment awaiting on site, and carry out routine maintenance of plant and equipment for mitigating unwanted noise and air pollutant emissions.	
COM-2022-02-01	Ng Tung River (ND/2019/04)	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: 「本人途經唔上水悟洞河近馬屎埔新村附近地盤發現河道有大量懷疑發泡膠影響何到魚類生物, 要求環境保護署或相關部門進行跟進」</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 Portion 11 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>	

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				using all generators with approved NRMM type, JV also installed odour adsorption bags which is made of activated carbon during oil fueling practice to further reduce nuisance.	
COM-2022-07-27	Near Portion 1b/1c (Ma Tso Lung) (ND/2019/01)	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

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			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

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			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

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				<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	<p>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>	<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. Conclusion: Based on the findings of investigation, CW-KL 	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				JV enhanced water pollution control to reduce nuisance to the environment. Environmental promotion is given to site staff and workers to increase their awareness of environmental protection.	

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
COM-2023-02-03	a construction site near On Lok Garden at On Fuk Street, North District. (ND/2019/05)	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>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> </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 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

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				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

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				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

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				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

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				It is believed that the noise in the video was not generated from the PMEs or plants on their site. No works and operation of PMEs and plants at the site area and they were ensured to be turned off after the operation before 19:00.	
COM-2024-03-04	Construction site near Ma Sik Road (ND/2019/04)	4 th March 2024	<p>EPD received a complaint with ref: N07/RN/6289-24 on 3 Mar 2024.</p> <p>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，不斷有吡吡吡之聲響，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。”</p>	<p>The investigation result as follows:</p> <p>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.</p> <p>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.</p> <p>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</p>	Closed

Log Ref.	Location	Received Date	Details of Complaint	Investigation/ Mitigation Action	Status
				and the necessity of the warning signal to the workers on site. The Contractor have implemented measure to reduce the sound pressure level of the warning signal by screening with adhesive paper. The sound pressure level has been reduced by about 10 dB(A) by measurement and doesn't affect the function for alerting the people and the operator.	
COM-2024-03-19	Construction site near Ma Sik Road (ND/2019/04)	19 th March 2024	EPD received a complaint with ref: N07/RN/7600-24 on 17 Mar 2024. Complaint detail: “在沙頭角公路龍躍頭段，現場有兩個大型施工地盤。一處為住宅逸峰對面，馬適路住宅 one innovalue 旁邊。一處為公路對面，安居街。每逢車輛經過，空氣中肉眼可見塵埃，路人經過衣服上滿佈一點點黑色的塵，想問問該兩個地盤有否做做防止塵埃揚起的預防措施。因為不見任何帆布，只有水馬圍欄。”	The investigation result as follows: The Contractor claimed that various measures have been applied regularly and properly to reduce dust from spreading outside the construction site. The effectiveness would also be reviewed by foremen on site. The road also affected by the dirt from the other vehicles travelling on Ma Sik Road and Sha Tau Kok Road. The dirt found on those roads is black in colour and powdery. The Contractor claimed that those black dirt was only found on the water barrier adjacent to both roads but not the other site boundary. The dirt in black and powdery might come from other vehicles travelling on both roads but not from the construction site. The Contractor will keep ensuring the measures for dust suppression to be effective and keep monitoring the condition of the site of enhancement of measures is needed.	Closed

**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.	Submitted 8 October 2022	Comments by EPD on 20 Dec 2022
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	Submitted 8 October 2022	Comments by EPD on 20 December 2022
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
*tentative submission date will be supplemented once available

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	

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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	

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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	