Civil Engineering and Development Department

Service Contract No. WD/04/2020 Development of Lok Ma Chau Loop: Main Works Package 1 – Environmental Team

Environmental Permit No.: EP-477/2013/B - Development of Lok Ma Chau Loop

Monthly Environmental Monitoring and Audit Report for October 2024

(Version 1.0)

Certified By

Dr. Priscilla Cho

(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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Our ref.: LES/J2021-04/CS/L198 Date : 14 November 2024

By Post & Email

Civil Engineering and Development Department West Development Office West Division (5) 26/F, Tsuen Wan Government Office, 38 Sai Lau Kok Road, Tsuen Wan, New Territories

Attn: Mr. YIU Wai Kei, Ricky

Dear Mr. Yiu,

Agreement No. WD/01/2020
Development of Lok Ma Chau Loop: Main Works Package 1 – Independent Environmental Checker

Verification of Monthly EM&A Report (October 2024)

Reference is made to the Monthly Environmental Monitoring and Audit (EM&A) Report of certified by the Environmental Team Leader in November 2024. We hereby verify the captioned submission in accordance with Clause 3.4 of the Environmental Permit No. EP-477/2013/B for the project of Development of Lok Ma Chau Loop.

Should you have any query, please feel free to contact the undersigned.

Yours faithfully, For and On Behalf Of Lam Environmental Services Limited

Raymond Dai

Independent Environmental Checker

c.c. AECOM Mr. Eric Wong By Email Wellab Limited Dr. Priscilla Choy By Email

TABLE OF CONTENTS

	Page
EXECUTIVE SUMMARY	1
Introduction	
Environmental Monitoring and Audit Activities	
Breaches of Action and Limit Levels	
Land Contamination	
Site Environmental Audit	
Complaint Log	
Notification of Summons and Successful Prosecutions	5
Reporting Change	5
Future Key Issues	5
1 INTRODUCTION	Q
Purpose of the report	
Structure of the report	
•	
2 PROJECT INFORMATION	
Background	
Project Organisation	
Construction Programme	
Summary of Construction Works Undertaken During Reporting Month	
Status of Environmental Licences, Notifications and Permits	
Status of Compliance with Environmental Permits Conditions	17
3 AIR QUALITY MONITORING	20
Monitoring Requirements	
Monitoring Location.	
Monitoring Equipment	20
Monitoring Parameters and Frequencies	
Monitoring Methodology and Quality Assurance/Quality Control (QA/QC) Procedure	
Instrumentation	21
HVS Installation	21
Filters Preparation	22
Operating/Analytical Procedures	22
Maintenance/Calibration	23
(AEROCET-831)	
Maintenance/Calibration	
Results and Observations	24
Event and Action Plan	25
4 NOISE MONITORING	26
Monitoring Requirements	
Monitoring Location	
Monitoring Equipment	
Monitoring Parameters, Frequency and Duration	
Monitoring Methodology and QA/QC Procedures	
Maintenance and Calibration	27
Results and Observations	
Event and Action Plan	
5 WATER QUALITY MONITORING	
Monitoring Requirements.	
Monitoring Locations	
INDITION TO EQUIDING II.	JU

i

Instrumentation	30
Monitoring Parameters and Frequency	
Monitoring Methodology	
Operating/Analytical Procedures	
Laboratory Analytical Methods	32
QA/QC Requirements	33
Maintenance and Calibration	33
Results and Observations	33
Event and Action Plan	34
6 ECOLOGICAL MONITORING	35
LMC Loop	
Monitoring Requirements (Avifauna Monitoring – Flight Line Survey)	
Monitoring Requirements (Mammals)	
Western Connection Road.	
Monitoring Requirements (Avifauna Monitoring – Flight Line Survey)	
Monitoring Requirements (Avifauna Monitoring – Pond 12)	
Herpetofauna	
Aquatic Fauna	
7 LAND CONTAMINATION	
General	
Remediation Work Progress in the Reporting Month	
8 WASTE MANAGEMENT	
General	
Solid and Liquid Waste Management Status	44
9 ENVIRONMENTAL SITE INSPECTION	45
Site Audits	45
10 IMPEMENTATION STATUS OF ENVIRONMENTAL MITIGATION	
	50
Ecological Mitigation Measures – Offsite Wetland Compensation Areas (OWCAs)	
Ecological Mitigation Measures – Installation of 3m-high Olive Green Fence	
11 ENVIRONMENTAL NON-CONFORMANCE (EXCEEDANCES)	
Summary of Exceedances	
Summary of Environmental Complaint	61
Summary of Notification of Summons and Successful Prosecutions	61
12 FUTURE KEY ISSUES	
Key Issues in the Coming Months	62
Monitoring Schedule for the Next Month	
Construction Programme for the Next Month	64
13 CONCLUSIONS AND RECOMMENDATIONS	65
Conclusions	
Recommendations	67

LIST OF TABLES

Table I	Summary Table for EM&A Activities in the Reporting Month
Table II	Summary Table for Environmental Exceedances in the Reporting Month
Table III	Summary Table for Site Environmental Audit in the Reporting Month
Table 2.1	Site Layout and Scope of Works under the Project
Table 2.2	Key Contacts of the Project
Table 2.3	Status of Environmental Licences, Notifications and Permits
Table 2.4	Summary Table for Status of Compliance / Required Submission under
	Environmental Permit for Main Works Package 1
Table 3.1	Location of Air Quality Monitoring Stations
Table 3.2	Air Quality Monitoring Equipment
Table 3.3	Impact Air Quality Monitoring Parameters and Frequencies
Table 3.4	Summary Table of 1-hour TSP Monitoring Results during the Reporting
	Month
Table 3.5	Summary Table of 24-hour TSP Monitoring Results during the Reporting
	Month
Table 3.6	Observation at Air Quality Monitoring Stations
Table 4.1	Location of Noise Monitoring Stations
Table 4.2	Noise Monitoring Equipment
Table 4.3	Noise Monitoring Parameters, Duration and Frequency
Table 4.4	Summary Table of Noise Monitoring Results during the Reporting Month
Table 4.5	Observation at Noise Monitoring Stations
Table 5.1	Location for Water Quality Monitoring Stations
Table 5.2	Types of Sampling Bottle and Preservation Method
Table 5.3	Water Quality Monitoring Equipment
Table 5.4	Water Quality Monitoring Parameters, Depths and Frequency
Table 5.5	Laboratory Analysis Method for Water Samples
Table 5.6	Summary of Water Quality Exceedances
Table 6.1	Number of Birds Observed
Table 6.2	Number of Bird-flights
Table 6.3	Summary of Avifauna Monitoring Results at Pond 12
Table 7.1	Detailed Contamination Information for Designated Remediation Areas
Table 7.2	Contaminant Solidification & Stabilisation Target for Cement
	Solidification / Stabilisation (CS/S)
Table 8.1	Quantities of Waste Generated in the Reporting Month
Table 9.1	Summary of Site Audits
Table 9.2	Observations and Recommendations of Site Audit
Table 10.1	Compliance Status of Related Environmental Mitigation Measures
Table 11.1	Statistical Summary of Environmental Complaints
Table 11.2	Statistical Summary of Environmental Summons
Table 11.3	Statistical Summary of Environmental Prosecution

LIST OF FIGURES

Figure 1	Layout Plan
Figure 2	Location of Air Quality Monitoring Stations
Figure 3	Location of Noise Monitoring Stations
Figure 4	Location of Water Quality Monitoring Stations
Figure 5a	Locations of Pond 12 and Lok Ma Chau Lookout
Figure 5b	Locations of Transects for Monitoring of Chinese Bull Frog
Figure 5c	Locations of Rose Bitterling Sampling Points
Figure 6	Flight Line of All Bird Species

LIST OF APPENDICES

Appendix A	Construction Programme
Appendix B	Action and Limit Levels
Appendix C	Copies of Calibration Certificates
Appendix D	Environmental Monitoring Schedules
Appendix E	1-hour TSP Monitoring Results and Graphical Presentation
Appendix F	24-hour TSP Monitoring Results and Graphical Presentation
Appendix G	Noise Monitoring Results and Graphical Presentation
Appendix H	Water Quality Monitoring Results and Graphical Presentation
Appendix I	Weather Condition
Appendix J	Event Action Plans
Appendix K	Summary of Exceedance
Appendix L	Site Audit Summary
Appendix M	Environmental Mitigation Implementation Schedule
Appendix N	Temporary Noise Barriers
Appendix O	Waste Generation in the Reporting Month
Appendix P	Complaint Logs
Appendix Q	Summary of Successful Prosecution
Appendix R	Ecological Monitoring Results
Appendix S	Photo Records of the Status of Ponds

EXECUTIVE SUMMARY

Introduction

- 1. This is the 70th Monthly Environmental Monitoring and Audit (EM&A) Report prepared for Environmental Permit No.: EP-477/2013/B Development of Lok Ma Chau Loop (hereinafter called "the Project"). This report documents the findings of Environmental Monitoring and Audit (EM&A) works conducted in the period from 1st to 31st October 2024 (hereinafter called "the reporting month").
- 2. During the reporting month, the following Works Contracts were undertaken for the Project:
 - Contract No. YL/2020/01 Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 1 Site Formation and Infrastructure Works inside Lok Ma Chau Loop and Western Connection Road Phase 1 (hereinafter called the "Contract 1")
 - Contract No.: YL/2020/02 Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling / San Tin Highway and Direct Road Link Phase 1 (hereinafter called the "Contract 2")
 - Contract No.: YL/2021/01 Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 3 Direct Road Link Phase 2 (hereinafter called the "Contract 3")

Environmental Monitoring and Audit Activities

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

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

Environmental Aspect		Monitoring Parameter	Date
Air Quality		1-hr Total Suspended Particulates (TSP) Monitoring 24-hr TSP Monitoring	3 rd , 9 th , 15 th , 21 st , 25 th and 31 st October 2024 2 nd , 8 th , 14 th , 18 th , 24 th and 30 th October 2024
Constructio	n Noise	L _{eq30mins}	3 rd , 9 th , 15 th , 21 st and 31 st October 2024
Water Quality		 Temperature pH Turbidity Water depth Salinity Dissolved Oxygen (DO) Suspended Solids (SS) 	2 nd , 4 th , 7 th , 9 th , 12 th , 14 th , 16 th , 18 th , 21 st , 23 rd , 25 th , 28 th and 30 th October 2024
		Avifauna flight line survey	25 th October 2024
Ecological	Lok Ma Chau (LMC) Loop	Mammal monitoring (by infrared flash cameras)	Temporary suspended as the connectivity between the reed marsh in the LMC Loop and the EA Zone has been fenced off due to other project's land occupier (i.e. emergency hospital)

Environmental Aspect		Monitoring Parameter	Date
		Avifauna flight line survey	25 th October 2024
		Avifauna survey at Pond 12	3 rd , 10 th , 16 th , 21 st and 30 th October 2024
		Herpetofauna survey	17 th October 2024
	Western	Aquatic Fauna survey	23 rd October 2024
Ecological	Connection Road (WCR)	Water Quality Monitoring for Aquatic Fauna	LMC Meander 2 nd , 4 th , 7 th , 9 th , 12 th , 14 th , 16 th , 18 th , 21 st , 23 rd , 25 th , 28 th and 30 th October 2024 Stream and associated ponds south of Lung Hau Road 2 nd , 7 th , 16 th , 23 rd , 30 th October 2024
Site Environmental Audit		Environmental protection and pollution control measures	Contract 1 2 nd , 9 th , 16 th , 21 st and 30 th October 2024 Contract 2 2 nd , 7 th , 16 th , 24 th and 30 th October 2024 Contract 3 7 th , 14 th , 21 st and 28 th October 2024

Breaches of Action and Limit Levels

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

 Table II
 Summary Table for Environmental Exceedances in the Reporting Month

				Event & Action		
Environmental Monitoring	Parameter	Action Level	Limit Level	Investigation Result	No. of Exceedance related to the Construction Works of the Project	Corrective Action
	1-hr TSP	0	0		0	
Air Quality	24-hr TSP	0	0		0	
Construction Noise	Daytime Leq(30min)	0	0		0	
	DO	0	0		0	
W. to a Octalia	Turbidity	0	0		0	
Water Quality	SS	0	0		0	

1-hour TSP Monitoring

5. All 1-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

24-hour TSP Monitoring

6. All 24-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

Construction Noise

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

Water Quality

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

Ecological Monitoring

LMC Loop

Avifauna (Flight Line Survey)

9. Avifauna monitoring was conducted as scheduled in the reporting month. Flight lines recorded were in general concentrated mainly on LMC Meander and adjacent areas including Ecological Area Zone (EA Zone). It demonstrates that the large waterbirds including migratory waterbirds, Great Cormorant prefer using the flight line corridor above the LMC Meander and adjacent areas including EA Zone instead of the centre of LMC Loop.

Mammals

- 10. According the Clause 11.4.1.2 of EM&A Manual, the objective of mammals monitoring is to monitor the connectivity between the reed marsh in the LMC Loop and the EA Zone. In view of current site condition of Loop, the connectivity between the reed marsh in the LMC Loop and the EA Zone has been fenced off due to other project's land occupier.
- 11. In addition, the 12-month establishment period of EA zone has also been completed. The mammals monitoring in the Loop has therefore been temporarily suspended since March 2022 and will be resumed subject to the site condition.

Western Connection Road

Avifauna (Flight Line Survey)

12. Avifauna monitoring was conducted as scheduled in the reporting month. Flight lines recorded were in general concentrated mainly on LMC Meander and adjacent areas including Ecological Area Zone (EA Zone). It demonstrates that the large waterbirds including migratory waterbirds, Great Cormorant prefer using the flight line corridor above the LMC Meander and adjacent areas including EA Zone instead of the centre of LMC Loop.

Avifauna (Pond 12)

13. Avifauna survey at Pond 12 was conducted as scheduled in the reporting month. Weekly count of birds using the Pond was recorded. No significant impact of construction activities on bird use of the pond was observed.

Herpetofauna

14. Herpetofauna survey was conducted as scheduled in the reporting month. It was observed that the shallow agricultural ponds where Chinese Bullfrog were recorded has been altered into relatively dry agricultural lands, which may have an effect on the local Chinese Bullfrog population. However, no significant impact of construction activities on this species was observed.

Aquatic fauna

15. Aquatic fauna survey was conducted as scheduled in the reporting month. No significant impact of construction activities on the stream was observed.

Land Contamination

- 16. Decontamination for five arsenic-contaminated zones (LD01 LD05) identified in LMC Loop was completed and the final Remediation Report was submitted and approved by EPD in accordance with Condition 2.16 of the Environmental Permit under Contract No. YL/2017/03.
- 17. No work related to land contamination was conducted in the reporting month.

Site Environmental Audit

- 18. In the reporting month, weekly joint site inspections to evaluate the site environmental performance had been carried out by the representatives of the Consultants, Independent Environmental Checker (IEC), Environmental Team (ET) and the Contractors. The date(s) of the weekly site environmental audit conducted under the Project are summarized in **Table III**.
- 19. No non-compliance was recorded during the site inspections.

Table III Summary Table for Site Environmental Audit in the Reporting Month

Contract(s)	Date(s) of Site Environmental Audit
Contract No. YL/2020/01 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 1 Site Formation and Infrastructure Works inside Lok Ma Chau Loop and Western Connection Road Phase 1	2 nd , 9 th , 16 th , 21 st and 30 th October 2024
Contract No.: YL/2020/02 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling / San Tin Highway and Direct Road Link Phase 1	2 nd , 7 th , 16 th , 24 th and 30 th October 2024
Contract No.: YL/2021/01 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 3 Direct Road Link Phase 2	7 th , 14 th , 21 st and 28 th October 2024

Complaint Log

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

Notification of Summons and Successful Prosecutions

21. No notification of summons or successful prosecution was received in the reporting month.

Reporting Change

22. This report has been prepared in compliance with the reporting requirements for the subsequent monthly EM&A Report as required by the EM&A Manual for Development of Lok Ma Chau Loop (EM&A Manual). No reporting change was made in the reporting month.

Future Key Issues

23. Major site activities for the coming reporting months will include:

Contract No. YL/2020/01 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 1 Site Formation and Infrastructure Works inside Lok Ma Chau Loop and Western Connection Road Phase 1

- (a) WCR for 5 & 7 (Area 1), retaining Wall, slope Work, drainage.
- (b) Meander Bridge South and Middle Spans Construction.
- (c) Road L1 Drainage and UU enabling works.
- (d) HWT Pai Lau Finishing Works.
- (e) Box Culvert A1 Outfall Portion Construction.
- (f) Wetland Fence Construction.
- (g) PT1 drainage works.

Contract No.: YL/2020/02 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling / San Tin Highway and Direct Road Link Phase 1

Reedbed Cell No. 3A:

(a) Monthly monitoring of the polishing function of the Reedbed Cell No. 3A.

DRL:

- (a) Temporary works.
- (b) Bored Pile works.
- (c) Sheet piling works.
- (d) ELS works.
- (e) Segment precast.
- (f) Pier construction.
- (g) Construction of pile cap.
- (h) Pre-drill works.
- (i) Construction of Base Slab.
- (j) Pierhead segment erection.

LMC Road:

- (a) Sheet-piling works.
- (b) Drainage works.
- (c) Bored piling works.
- (d) Water main installation.
- (e) Pile cap construction.
- (f) Nullah modification works.
- (g) Site formation.
- (h) Underground utilities works.
- (i) Construction of noise barrier.
- (j) Construction of box culvert.
- (k) Construction of retaining wall.
- (1) Construction of concrete structure.
- (m) Carpark traffic diversion works.
- (n) Traffic islands modification.

Fanling Highway:

- (a) Construction of retaining wall.
- (b) Pier construction.

- (c) Installation of pierhead segment.
- (d) Backfilling works for retaining wall.
- (e) Sheet-piling works for retaining wall.
- (f) Full span erection.
- (g) Fabrication of precast segment.
- (h) Installation of parapet at retaining wall.
- (i) Construction of subway.

<u>Contract No.: YL/2021/01 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 3 Direct Road Link Phase 2</u>

- (a) ELS Construction for EPTI Grid D & E.
- (b) Construction of pile caps, tie beams and columns for EPTI.
- (c) Construction of in-situ beams for EPTI.
- (d) Installation of precast beams for EPTI.
- (e) Construction and reinstatement of road and drains for EPTI.
- (f) Construction of columns and deck for DDFB.
- (g) Preparation works for next TTA Stage 4B in November 24.
- (h) ABWF Works in Lok Ma Chau Station.

1 INTRODUCTION

1.1 Wellab Limited (WELLAB) was appointed by the Civil Engineering and Development Department (CEDD) under Service Contract No. WD/04/2020 as the Environmental Team to undertake the Environmental Monitoring and Audit (EM&A) programme for the Works Contracts under Main Works Package 1 and the remaining works under Contract No. YL/2017/03 — Development of Lok Ma Chau Loop: Land Decontamination and Advance Engineering Works to ensure that the environmental performance of the Works Contracts comply with the requirements specified in the Environmental Permit (EP), Environmental Monitoring & Audit (EM&A) Manual, Environmental Impact Assessment (EIA) Report of the Project and other relevant statutory requirements.

Purpose of the report

1.2 This is the 70th EM&A Report which summarises the impact monitoring results and audit findings for the EM&A programme in the period from 1st to 31st October 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, monitoring results and Event / Action Plans.
 - Section 6: **Ecological Monitoring -** summarises the monitoring parameters, monitoring programmes, monitoring methodologies, monitoring frequencies, monitoring locations and monitoring results.
 - Section 7 Land Contamination summarises the remediation works progress for contamination soil and relevant submission.
 - Section 8 Waste Management summarises the implementation status of waste management.
 - Section 9: Environmental Site Inspection summarises the audit findings of the

weekly site inspections undertaken within the reporting month.

Section 10: Implementation Status of Environmental Mitigation Measures - summarises the compliance status of environmental mitigation measures.

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 and monitoring schedule for the next three months.

Section 13: Conclusions and Recommendations

2 PROJECT INFORMATION

Background

- 2.1 The development at Lok Man Chau (LMC) Loop is one of the ten major infrastructure projects for economic growth of the Hong Kong Special Administrative Region (HKSAR). The HKSAR Government would work with the Shenzhen authorities to tap the land resources of the LMC Loop to meet future development needs and consolidate the strategic position of both cities in the Pan-Pearl River Delta region. The Project is to develop LMC Loop with higher education as the leading land use, complemented by high-tech research and development facilities and cultural and creative industries.
- 2.2 The planning and engineering study for the Loop development is a designated project (DP) classified under Item 1 Schedule 3 of the Environmental Impact Assessment (EIA) Ordinance (Cap. 499). In October 2013, the EIA Report (AEIAR-176/2013) of the Project was approved by the Director of Environmental Protection pursuant to the EIA Ordinance in accordance with the EIA Study Brief (No. ESB-201/2008 and ESB-238/2011) and the Technical Memorandum on Environmental Impact Assessment Process (EIAO-TM). The Environmental Permit (EP) (EP no.: EP-477/2013) was also granted in November 2013.
- 2.3 Pursuant to Section 13 of the EIAO, the Director of Environmental Protection amends the Environmental Permit (No. EP-477/2013) based on the Application No. VEP-595/2021 and the environmental Permit (Permit No. EP-477/2013/A) was issued on 12th August 2021 for Development of Lok Ma Chau Loop. In December 2023, the Director of Environmental Protection further amends the Environmental Permit (No. EP-477/2013/A) based on the Application No. VEP-629/2023 and the latest Environmental Permit (No. EP-477/2013/B) was issued on 29th December 2023 for Development of Lok Ma Chau Loop.
- 2.4 The Loop development is implemented by three works packages in stages, namely: Advance Works, Main Works Package 1 (MWP1) and Main Works Package 2 (MWP2).
- 2.5 Contract No. YL/2017/03 Development of Lok Ma Chau Loop: Land Decontamination and Advance Engineering Works (hereinafter called the "Contract") was awarded to Sang Hing Kuly Joint Venture (hereinafter called the "Contractor 1") in June 2018 for the Advance Works. All construction works of Contract No. YL/2017/03 have been completed and the works were successfully handed over to AFCD and DSD on 30th December 2021.
- 2.6 For MWP1, there will be a total of 5 Works Contracts and the contract packaging is shown below.
 - Contract 1 Development of Lok Ma Chau Loop: Main Works Package 1 Contract 1 Site Formation and Infrastructure Works inside Lok Ma Chau Loop and Western Connection Road Phase 1
 - 2) Contract 2 Development of Lok Ma Chau Loop: Main Works Package 1 Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling / San Tin Highway and Direct Road Link Phase 1
 - 3) Contract 3 Development of Lok Ma Chau Loop: Main Works Package 1 Contract 3 Direct Road Link Phase 2
 - 4) Contract 4 Development of Lok Ma Chau Loop: Main Works Package 1 -

- Contract 4 Fresh Water Service Reservoir and Associated Waterworks
- 5) Contract 5 Development of Lok Ma Chau Loop: Main Works Package 1 Contract 5 Landscaping Works within Lok Ma Chau Loop
- 2.7 Contract No. YL/2020/01 Development of Lok Ma Chau Loop: Main Works Package 1 Contract 1 Site Formation and Infrastructure Works inside Lok Ma Chau Loop and Western Connection Road Phase 1 (hereinafter called the "Contract 1") was awarded to CRCC-Kwan Lee-Paul Y. JV in July 2021.
- 2.8 Contract No.: YL/2020/02 Development of Lok Ma Chau Loop: Main Works Package 1 Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling / San Tin Highway and Direct Road Link Phase 1 (hereinafter called the "Contract 2") was awarded to China Road and Bridge Corporation in September 2021.
- 2.9 Contract No.: YL/2021/01 Development of Lok Ma Chau Loop: Main Works Package 1 Contract 3 Direct Road Link Phase 2 (hereinafter called the "Contract 3") was awarded to Paul Y.-Chun Wo-CRCC JV in February 2022.
- 2.10 During the reporting month, the following Works Contracts were undertaken for the Project:
 - Contract No. YL/2020/01 Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 1 Site Formation and Infrastructure Works inside Lok Ma Chau Loop and Western Connection Road Phase 1 (Contract 1)
 - Contract No.: YL/2020/02 Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling / San Tin Highway and Direct Road Link Phase 1 (Contract 2)
 - Contract No.: YL/2021/01 Development of Lok Ma Chau Loop: Main Works Package 1 Contract 3 Direct Road Link Phase 2 (Contract 3)
- 2.11 The layout of the construction works under the Project and the scope of works under the Project are summarized in **Table 2.1**.

Table 2.1 Site Layout and Scope of Works under the Project

Contract(s)	Scope of Works	Site Layout Plan
Contract No. YL/2017/03 – Development of Lok Ma Chau Loop: Land Decontamination and Advance Engineering Works (Completed)	 a) Land decontamination treatment within the Loop; b) Establishment of an Ecological Area (EA) within the Loop; c) Construction of a temporary access to the Loop; d) Minor improvement works to Ha Wan Tsuen East Road and other ancillary works; e) Construction of temporary noise barriers and miscellaneous road works along Lok Ma Chau Road; f) Ground treatment works to the first batch of land parcels within the Loop for development of buildings and associated facilities for Phase 1 of the Hong Kong – Shenzhen Innovation and Technology Park and development of the western electricity substation; and g) Implementation of environmental mitigation 	Figure 1a
	measures for the works mentioned in the items (a) to (f) above.	
Contract No. YL/2020/01 – Development of Lok Ma Chau Loop: Main Works Package 1 –	 a) Ground treatment and site formation works; b) Construction of carriageway, footpaths, cycle tracks and a public transport interchange within the Loop; c) Construction of Western Connection Road Phase 	Figure 1b
Contract 1 Site Formation and Infrastructure Works inside Lok Ma Chau Loop and Western	1 through widening of existing Ha Wan Tsuen East Road, which includes construction of footpath, cycle track, slopes, retaining walls and a vehicular bridge over the old Shenzhen River meander;	
Connection Road Phase 1	 d) Provision of other infrastructures, including a tertiary sewage treatment works and sewerage system, water supply system, drainage system, and other associated works; and e) Environmental mitigation measures including about 18 ha offsite wetland compensation and 	
Contract No.: YL/2020/02 – Development of Lok	 about 1.3 ha offsite woodland compensation. a) Construction of Western Connection Road Phase 2 through widening of a section of existing Lok Ma Chau Road; 	Figure 1b
Ma Chau Loop: Main Works Package 1 – Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling / San Tin Highway and	 b) Construction of Direct Road Link Phase 1 comprising a viaduct of about 720m long; construction of slip roads connecting Lok Ma Chau Road and Fanling Highway / San Tin Highway including a viaduct of about 340 m long; c) Construction of a cycle track cum footbridge; 	
Direct Road Link Phase 1	 d) Construction of associated works including road improvement works, footpaths, cycle tracks, slopes, retaining walls, water supply system and drainage system; and e) Provision of noise barriers. 	
Contract No.: YL/2021/01 – Development of Lok	a) Construction of an elevated public transport interchange of an approximate area of 5,700 square metres above the existing Lok Ma Chau	Figure 1b

12

Contract(s)	Scope of Works	Site Layout Plan
Ma Chau Loop: Main Works Package 1 – Contract 3 Direct Road Link Phase 2	Spur Line Public Transport Interchange; b) Construction of an approximately 90 metres long double-deck footbridge and a lift tower of approximately 21 metres in height with three lifts and three escalators connecting the elevated public transport interchange mentioned above to the MTR Lok Ma Chau Station; c) Associated modification works within the MTR Lok Ma Chau Station; and d) Associated roadworks, landscaping, electrical and mechanical works and ancillary works.	

Project Organisation

2.12 Different parties with different levels of involvement in the Project organization. The key personnel contact names and numbers are summarised in **Table 2.2**.

Table 2.2 Key Contacts of the Project

Organization	Project Role	Contact Person	Tel No.	Fax No.
CEDD	Project Proponent	Mr. YIU Wai Kei, Ricky	2417 6370	2412 0358
WELLAB	ET	Dr Priscilla Choy – ET Leader	2898 7388	2898 7076
Lam Environmental Services Limited (LAM)	IEC	Mr. Raymond Dai	2839 5666	2882 3331
Contract No. YI	./2020/01			
AECOM	Consultants	Mr. Eric Wong	9861 8664	TBA
	Contractor	Site Agent – Mr. Sam Lee	9284 1964	2774 0197
CRCC-Kwan		Senior Engineer – Mr. Max Mak	9263 1116	2774 0197
Lee-Paul Y. JV		Senior Engineer – Mr. Stephen Leung	9770 6390	2774 0197
		Environmental Officer – Mr. Kobe Lee	9603 9686	2774 0197
Contract No. YI	L/2020/02			
AECOM	Consultants	Mr. Eric Wong	9861 8664	TBA
	Contractor	Site Agent – Mr. Roger Poon		3996 9202
China Road and Bridge Corporation		Construction Team Leader – Mr. Angus Mok	98389224	3996 9202
		Environmental Officer – Ms. Celia Yung	9045 0322	3996 9202

Organization	Project Role	Contact Person	Tel No.	Fax No.
Contract No. YI	L/2021/01			
AECOM	Consultants	Mr. Eric Wong	9861 8664	TBA
		Site Agent – Mr. Desmond Tang	5188 0815	3015 7861
Paul YChun Wo-CRCC JV	Contractor	Section Agent – Mr. Charles Choi	6350 0142	3015 7861
		Environmental Officer – Mr. Tino Law	6856 4150	3015 7861

Construction Programme

2.13 Copies of contractors' construction programmes are provided in **Appendix A**.

Summary of Construction Works Undertaken During Reporting Month

2.14 The major site activities undertaken in the reporting month included:

Contract No. YL/2020/01 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 1 Site Formation and Infrastructure Works inside Lok Ma Chau Loop and Western Connection Road Phase 1

- (a) North, Middle and South Span Bridge Deck Construction Work and North, middle, South Side Superstructure for Vehicular Bridge over the Old Shenzhen River Meander
- (b) Site formation & Road works and Utilities works for Community Isolation Facilities and Community Treatment Facilities
- (c) Excavation and Lateral Support (ELS) Cofferdam Construction and Socket H-piles for Box Culvert A & C
- (d) Excavation and Lateral Support (ELS) Construction and Underground Utilities (UU) installation, Drainage and sewerage works for Road L1
- (e) Drainage works, Site clearance, and Excavation and Lateral Support (ELS) Construction for Public Transport Interchange
- (f) Construction of Bay, Backfilling, Drainage Works, Watermain works and Roadworks for Western Connection Road

Contract No.: YL/2020/02 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling / San Tin Highway and Direct Road Link Phase 1

Reedbed Cell No. 3A:

(a) Monthly monitoring of the polishing function of the Reedbed Cell No. 3A.

DRL:

- (a) Temporary works are in progress.
- (b) Bored Piling works are in progress.
- (c) Sheet piling is in progress.
- (d) ELS works are in progress.
- (e) Excavation is in progress.
- (f) ABWF works are in progress.
- (g) Pier construction.
- (h) Construction of pile cap.
- (i) Backfilling of piling platform is in progress.
- (j) Pierhead segment erection.

LMC Road:

- (a) Sheet-piling works.
- (b) Drainage works.
- (c) Bored piling works.
- (d) Water main installation.
- (e) Pile cap construction.
- (f) Nullah modification works.
- (g) Site formation.
- (h) ABWF works are in progress.
- (i) Construction of box culvert.
- (j) Construction of retaining wall.
- (k) Pier construction.
- (1) Construction of Noise Barriers.
- (m) Traffic islands modification works are in progress.

Fanling Highway:

- (a) Installation of pierhead segment.
- (b) Sheet-piling works for retaining wall.
- (c) Backfilling works for retaining wall.
- (d) Bored Piling works are in progress.
- (e) Construction of subway.
- (f) Full span erection.

Contract No.: YL/2021/01 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 3 Direct Road Link Phase 2

(a) Underground Utility detection

- (b) Trial pit excavation
- (c) Material / Waste Lifting and Delivery
- (d) Utilities diversion
- (e) Erect external scaffold outside LMC Station
- (f) E&M
- (g) Double Deck Footbridge
- (h) Temporary Lighting system
- (i) Site Demarcation
- (i) ELS installation Works
- (k) Tie beam and pile cap construction
- (1) Column construction
- (m) Falsework at EPTI
- (n) EPTI RC deck construction

Status of Environmental Licences, Notifications and Permits

2.15 A summary of the relevant permits, licences, and/or notifications on environmental protection for the Project is presented in **Table 2.3**.

Table 2.3 Status of Environmental Licences, Notifications and Permits

	Permit / License	Valid Period			
Contract No.	No.	From	To	Status	
Environmental Permit (EI	P)				
Contract No. YL/2020/01	EP-477/2013	22/11/2013	11/08/2021	Replaced by EP-473/2013/A	
Contract No. YL/2020/02 Contract No. YL/2021/01	EP-477/2013/A	12/08/2021	28/12/2023	Replaced by EP-473/2013/B	
	EP-477/2013/B	29/12/2023	N/A	Valid	
Construction Noise Permi	t (CNP)				
	GW-RN0857-24	09/08/2024	08/10/2024	Expired in the reporting month	
Contract No. YL/2020/01	GW-RN1176-24	09/10/2024	08/01/2025	Valid	
	GW-RN1005-24	15/09/2024	14/01/2025	Valid	
	GW-RN0914-24	09/08/2024	08/10/2024	Expired in the reporting month	
	GW-RN0947-24	16/08/2024	15/10/2024	Expired in the reporting month	
	GW-RN0900-24	12/08/2024	11/11/2024	Valid	
Contract No. YL/2020/02	GW-RN1052-24	04/09/2024	03/12/2024	Replaced by GW- RN1149-24	
	GW-RN1149-24	11/10/2024	10/12/2024	Valid	
	GW-RN1239-24	24/10/2024	23/01/2025	Valid	
	GW-RN1249-24	28/10/2024	27/01/2025	Valid	
	GW-RN1255-24	29/10/2024	28/01/2025	Valid	
Contract No. YL/2021/01	GW-RN0794-24	08/07/2024	07/10/2024	Expired in the	

	Permit / License	Valid Period			
Contract No.	No.	From	To	Status	
				reporting month	
	GW-RN1181-24	08/10/2024	31/12/2024	Valid	
	GW-RN0937-24	16/08/2024	15/10/2024	Expired in the reporting month	
	GW-RN1167-24	16/10/2024	15/12/2024	Valid	
Notification pursuant to A	ir Pollution Control	(Construction	Dust) Regulation		
Contract No. YL/2020/01	469726	21/07/2021	Till the Contract ends	Receipt acknowledged by EPD	
Contract No. YL/2020/02	471916	20/09/2021	Till the Contract ends	Receipt acknowledged by EPD	
Contract No. YL/2021/01	479880	17/05/2022	Till the Contract ends	Receipt acknowledged by EPD	
Billing Account for Dispos	al of Construction V	Vaste			
Contract No. YL/2020/01	7041333	27/07/2021	Till the Contract ends	Valid	
Contract No. YL/2020/02	7041861	15/10/2021	Till the Contract ends	Valid	
Contract No. YL/2021/01	7043434	22/05/2022	Till the Contract ends	Valid	
Registration of Chemical V	Waste Producer				
Contract No. YL/2020/01	WPN 5213-620- C4632-01	21/07/2021	Till the Contract ends	Valid	
Contract No. YL/2020/02	WPN 5213-542- C1232-24	29/11/2021	Till the Contract ends	Valid	
Contract No. YL/2021/01	WPN 5213-542- P3483-01	21/04/2022	Till the Contract ends	Valid	
Effluent Discharge License	e under Water Pollu	tion Control O	rdinance		
C 4 1N NI /2020/01	WT00039466-2021	22/09/2023	31/12/2026	Valid	
Contract No. YL/2020/01	WT00041233-2022	31/10/2022	31/07/2027	Valid	
	WT00041280-2022	27/07/2022	31/07/2027	Valid	
	WT00042556-2022	23/11/2022	30/11/2027	Valid	
Contract No. YL/2020/02	WT00043043-2023	21/04/2023	30/04/2028	Valid	
	WT10001592-2023	7/09/2023	30/09/2028	Valid	
	WT10001042-2023	29/11/2023	30/11/2028	Valid	
	WT10003163-2024	18/06/2024	30/06/2029	Valid	
Contract No. YL/2021/01	WT00041259-2022	21/07/2022	31/07/2027	Valid	
Specified Processes for Cen	nent Works under A	ir Pollution Co	ontrol Ordinance		
Contract No. YL/2020/01	L-3-270(1)	25/04/2023	24/04/2025	Valid	

Status of Compliance with Environmental Permits Conditions

2.16 The status of compliance with Environmental Permit and required submission related to this Project under the EP is summarized in **Table 2.4**:

Table 2.4 Summary Table for Status of Compliance / Required Submission under Environmental Permit for Main Works Package 1

EP Conditions	Submission(s)	Requirement	Submission Date	Approval Status
2.3	Management Organizations	no later than one month before the commencement of construction of the Project	YL/2020/01: 7 July 2021 YL/2020/02: 17 Nov 2021 YL/2021/01: 30 Mar 2022	*
2.4	Pedestrian Walkway Reserve in the Direct Link to MTR LMC Station	at least one month before the commencement of construction of the Direct Link, deposited with the Director	17 Nov 2021	*
2.5 & 2.6	Submission of Works Schedule and Location Plans	Works Schedule: at least one month before the commencement of the works of the Project Location Plan: at least two weeks before the commencement of the works of the Project The works of the Project works of the Project of the Project one month before the commencement of the works of the Project one month before the commencement of the works of the Project one month before the commencement of the works of the Project one month before the commencement of the works of the Project of the Project one month before the commencement of the works of the Project o		*
2.7	Ecological Mitigation / Habitat Creation and Management Plan	at least one month before the commencement of corresponding parts of the works of the Project, deposited with the Director	7 Dec 2021 (Issue 4)	*
2.8	Landscape Plan	at least one month before the commencement of corresponding parts of the works of the Project, deposited with the Director	28 Mar 2024 (Issue 1)	*
2.11	Emergency Contingency Plan	at least one month before the commencement of the concerned works of the Project, deposited with the Director	26 Oct 2021	*
2.15	Re-appraisal report	at least one month before the commencement of corresponding parts of the works of the Project, deposited with the Director	18 Jun 2021	*
2.16	Remediation Report	no later than one month after the completion of the remediation works for approval	N/A (no remediation is required according to reappraisal report)	N/A
2.17	(a) Updated Contamination Assessment Plan (CAP) (b) Contamination Assessment Report (CAR) (c) Remedial Action Plan (RAP) (d) Remediation Report (RR)	(a) submitted to the Director for approval (b) no later than two months after the completion of the Supplementary SI (c) submitted to the Director for approval (d) no later than one month after the completion of the remediation works for approval	N/A (no remediation is required according to reappraisal report)	N/A

2.18	Updated Storm Water Pollution Control Plan	at least one month before the commencement of operation of the Project	To be submitted at least one month before the commencement of operation of the Project	N/A
2.22(a)	Traffic Noise Mitigation Plan (TNMP)	no later than one month before the commencement of construction of the traffic noise mitigation measures for the Project	22 July 2024 (Version A, dated July 2024)	N/A
2.24	Odour Mitigation Measures and Monitoring Plan (OMMMP)	no later than six months before the commencement of operation of the Project	21 May 2024	N/A
3.3	Baseline Monitoring Report	at least one month before commencement of construction of the Project.	3 Dec 2018	*
3.4	Monthly EM&A Report	within 10 working days after the end of each reporting month	Regular submitted within 10 working days after the end of each reporting month	*

Remarks: * Approval not required in EP-477/2013/B N/A – Not Applicable

3 AIR QUALITY MONITORING

Monitoring Requirements

- 3.1 In accordance with the EM&A Manual for Development of Lok Ma Chau Loop (EM&A Manual), impact 1-hour Total Suspended Particulates (TSP) and 24-hour TSP monitoring were conducted to monitor the air quality for the Project. **Appendix B** shows the established Action/Limit Levels for the air quality monitoring work.
- 3.2 Impact 1-hour TSP monitoring was conducted for at least three times every 6 days, while impact 24-hour TSP monitoring was conducted for at least once every 6 days at 4 air quality monitoring stations.

Monitoring Location

3.3 Impact air quality monitoring was conducted at the 4 monitoring stations under the Project, as shown in **Figure 2**. **Table 3.1** describes the location of the air quality monitoring stations.

Table 3.1 Location of Air Quality Monitoring Stations

Monitoring Station	Location	
DMS-1a (see Note 1)	Village House along Ha Wan Tsuen East Road	
DMS-2A (see Note 2)	Village House along Lok Ma Chau Road	
DMS-2B (see Note 3)	Site boundary near Village House along Lok Ma	
	Chau Road	
DMS-3	Village House along Old Border Road	
DMS-4A (see Note 4) Hong Kong Police Force, Lok Ma Chau Operation		
	Horn Hill	

Notes:

- 1. In view of the disturbance concerned by the villagers near the original air quality monitoring location DMS-1, an alternative location (DMS-1a) was proposed which was verified by IEC and agreed by EPD.
- Monitoring at DMS-2 (originally proposed in the approved EM&A Manual) was denied during the baseline monitoring. An alternative location (DMS-2A) was proposed which was verified by IEC and agreed by EPD.
- 3. Alternative location (DMS-2B) was proposed due to DMS-2A is situated within the site area for upcoming road widening works which was verified by IEC and agreed by EPD.
- 4. Proposed replacement monitoring location for Air Sensitive Receiver (ASR) MTL-20 Village house in Ma Tso Lung (DMS-4A) as no work would be conducted near ASR MTL-20 due to exclusion of the original Eastern Connection Road (ECR) which was verified by IEC and agreed by EPD.

Monitoring Equipment

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(s)	Equipment	Model and Make	Quantity
DMS-3	HVS Sampler for 24-hour TSP monitoring	TISCH Model: TE-5170	2
DMS-4A	1-hour TSP Dust Meter	Met One Instruments: AEROCET-831	1

Monitoring Station(s)	Equipment	Model and Make	Quantity
	Calibrator	TISCH Model: TE-5025A	1
⁽¹⁾ DMS-2B ⁽²⁾ DMS-1a	Dust Meter for 1- hour and 24-hour TSP monitoring	Met One Instruments: AEROCET-831	3
DMS-4A	Wind Anemometer	DAVIS Model: Vantage PRO2 6152CUK	1

Remarks:

- (1) Air quality monitoring has been conducted at DMS-2B (and suspended from DMS-2A) starting from 20 January 2023. Due to the complaint received from the nearby villager about the sound arising from HVS, dust meter was requested for air quality monitoring at DMS-2B starting from March 2023. IEC had no comment on the proposal of using dust meter for monitoring at DMS-2B.
- (2) The power supply from the Village House at DMS-1a is not secured for operation of HVS. Therefore, dust meter for 24-hr TSP monitoring at DMS-1a was proposed to ensure the monitoring data collection. IEC had no comment on the proposal of using dust meter for 24-hr TSP monitoring at DMS-1a on 21 June 2022.

Monitoring Parameters and Frequencies

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

Table 3.3 Impact Air Quality Monitoring Parameters and Frequencies

Parameters	Frequency
1-hr TSP	Three times in every 6 days
24-hr TSP	Once per 6 days

Monitoring Methodology and Quality Assurance/Quality Control (QA/QC) Procedure

24-hour TSP Air Quality Monitoring

Instrumentation

3.6 HVSs 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

- 3.7 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 metres apart;
 - The distance between the sampler and an obstacle, such as buildings, was at least twice the height that the obstacle protruded above the sampler;

- A minimum of 2 metres of separation from walls, parapets and penthouses was required for rooftop samples;
- A minimum of 2 metres 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 metres 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 had been obtained to set up the samplers; and
- A secured supply of electricity was provided to operate the samplers.

Filters Preparation

- 3.8 Wellab Limited was the HOKLAS accredited laboratory (HOKLAS Registration No.083) and responsible for the preparation of 24-hr conditioned and pre-weighed filter papers for the monitoring team.
- 3.9 All filters were equilibrated in the conditioning environment for 24 hours before weighing. The conditioning environment temperature was around 25 °C and not variable by more than ± 3 °C; the relative humidity (RH) was < 50% and not variable by more than $\pm 5\%$. A convenient working RH was 40%.
- 3.10 Wellab Limited has comprehensive QA and QC programmes.

Operating/Analytical Procedures

- 3.11 Operating/analytical procedures for the air quality monitoring were highlighted as follows:
 - Prior to the commencement of the 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. Then the filter holding frame was tightened to the filter holder with swing bolts. The applied pressure should be sufficient to avoid air leakage at the edges;
 - The shelter lid was closed and secured with the aluminum strip;
 - The timer was then programmed. Information was recorded on the record sheet, which included the starting time, the weather condition and the filter number (the initial weight of the filter paper could 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 Wellab Limited 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 not vary by more than ±3°C; the RH should be < 50% and not vary by more than ±5%. A convenient working RH is 40%. Weighing results were returned for further analysis of TSP concentrations collected by each filter.

Maintenance/Calibration

- 3.12 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 condition; and
 - All HVSs were calibrated (five-point calibration) using Calibration Kit prior to the commencement of the baseline monitoring and thereafter at bi-monthly intervals.

1-hour and 24-hour TSP Air Quality Monitoring

3.13 The measuring procedures of the dust meter are in accordance with the Manufacturer's Instruction Manual as follows:

(AEROCET-831)

- The 1-hour dust meter is placed 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 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 measuring after 1 hour sampling.
- For 24-hour TSP monitoring, the hold time was set for collection of 24-hour TSP samples. A separate automotive battery was used to support the dust meter for 24-hour TSP monitoring.
- 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

- 3.14 The following maintenance/calibration is required for the direct dust meters:
 - Check and calibrate the meter by HVS to check the validity and accuracy of the results measured by direct reading method prior to the commencement of the baseline monitoring. Dust meter will be checked and calibrated at bi-monthly intervals throughout the air quality monitoring period, if necessary.

Results and Observations

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

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

Monitoring Station	Concentration (μg/m³)		Action Level, µg/m³	Limit Level, µg/m³
Station	Average	Range	Level, μg/III	μg/m
DMS – 1a	121.6	47.9 – 179.0	353	
DMS - 2B	95.8	54.3 – 141.8	370	500
DMS – 3	71.6	26.5 - 123.3	351	500
DMS – 4A	68.4	31.4 - 89.1	350	

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

Monitoring Station	Concentration (μg/m³)		Action Level, µg/m³	Limit Level, µg/m³
Station	Average	Range	Level, μg/III	μg/m
DMS – 1a	88.5	41.2 – 142.9	184	
DMS - 2B	85.6	72.7 – 95.9	166	260
DMS - 3	51.5	23.0 - 79.1	166	260
DMS – 4A	29.3	10.0 - 55.7	152	

- 3.16 All 1-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.
- 3.17 All 24-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.
- 3.18 According to our field observations, the major dust source identified at the designated air quality monitoring stations in the reporting month are as follows:

Table 3.6 Observation at Air Quality Monitoring Stations

Monitoring Station	Major Dust Source
DMS-1a	Road traffic, exposed site area / slope / stockpiles of materials, site vehicle / equipment movement
DMS-2B	Road traffic, exposed site area / slope / stockpiles of materials, site vehicle / equipment movement
DMS-3 Road traffic	
DMS-4A	Road traffic

- 3.19 The wind speed and wind direction were recorded by the installed Wind Anemometer set at DMS-4A. The location is shown in **Figure 2**.
- 3.20 The general weather condition and the wind data for the reporting month are summarised in **Appendix I**.

Event and Action Plan

3.21 Should any project related non-compliance of the criteria occur, action in accordance with the Event Action Plan in **Appendix J** shall be carried out.

4 NOISE MONITORING

Monitoring Requirements

4.1 In accordance with the EM&A Manual, four noise monitoring stations, namely NMS-1, NMS-2, NMS-3 and NMS-4A were selected for impact monitoring for the Project. Impact noise monitoring was conducted for at least once per week during the construction phase of the Project. **Appendix B** shows the established Action / Limit Levels for the noise monitoring works.

Monitoring Location

4.2 Impact noise monitoring was conducted at the 4 monitoring stations under the Project, as shown in **Figure 3**. **Table 4.1** describes the locations of the noise monitoring stations.

Table 4.1 Location of Noise Monitoring Stations

Monitoring Station	Location	Measurement
NMS-1	Village house in Ha Wan Tsuen	Façade Measurement
NMS-2	Village house along existing Ha Wan Tsuen	Free Field
NMS-3	Village house along Old Border Road	Free Field
NMS-4A (see Note 1)	Hong Kong Police Force, Lok Ma Chau	Free Field
	Operation Base at Horn Hill	measurement

Note:

 Proposed replacement monitoring location for Noise Sensitive Receiver (NSR) MTL-20 – Village house in Ma Tso Lung (NMS-4A) as no work would be conducted near NSR MTL-20 due to exclusion of the original ECR.

Monitoring Equipment

4.3 **Table 4.2** summarises the noise monitoring equipment. Copies of calibration certificates are provided in **Appendix C**.

Table 4.2 Noise Monitoring Equipment

Equipment	Model	Quantity
Integrating Sound Level Meter	BSWA 308	2
Calibrator	SVANTEK SV 30A	2

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**.

Monitoring Stations	Parameter	Duration	Frequency
NMS-1 NMS-2 NMS-3 NMS-4A	L10(30 min.) dB(A) L90(30 min.) dB(A) Leq(30 min.) dB(A) (as six consecutive Leq, 5min readings)	0700-1900 hrs on normal weekdays	Once per week

Table 4.3 Noise Monitoring Parameters, Duration and Frequency

Remarks:

A-weighted equivalent continuous sound pressure level (Leq). It is the constant noise level which, under a given situation and time period, contains the same acoustic energy as the actual time-varying noise level.

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

L₉₀ is the level exceeded for 90% of the time. For 90% of the time, the noise level is above this level.

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 facade 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, the time weighting and the measurement time were set as follows:

frequency weightingtime weightingFast

 \perp time measurement : L_{eq}(30 min.) dB(A)

(as six consecutive $L_{\text{eq, 5min}}$ readings) during non-restricted hours (i.e. 0700-1900 hrs 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 recalibration or repair of the equipment;
- During the monitoring period, the L_{eq} , L_{90} and L_{10} were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet;
- Noise measurement was paused temporarily during periods of high intrusive noise (e.g. dog barking, helicopter noise) if possible and observation record 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 head of the sound level meter and calibrator were cleaned with a soft cloth at quarterly intervals.
- 4.6 The sound level meter and calibrator 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 G**.

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

Monitoring Station	Noise Level,	Leq (30min) dB(A)	Action Level	Limit Level
Monitoring Station	Average	Range	Action Level	Limit Level
NMS-1	62.2	59.0 – 65.4	When one	
NMS-2	71.8	70.4 - 72.4	documented	75 1D(A)
NMS-3	53.9	47.9 - 57.0	complaint is	75 dB(A)
NMS-4A	52.4	48.9 – 54.3	received.	

Remark: +3dB(A) façade correction included

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

- 4.9 All noise monitoring was conducted as scheduled in the reporting month. No Action and Limit Level exceedance was recorded.
- 4.10 According to our field observations, the major noise source identified at the designated noise monitoring stations in the reporting month are as follows:

Table 4.5 Observation at Noise Monitoring Stations

Monitoring Station	Major Noise Source
NMS-1	Excavation works, loading and unloading works, site vehicle / equipment movement
NMS-2	Breaking works, excavation works, loading and unloading works, site vehicle / equipment movement
NMS-3	Road traffic
NMS-4A	Road traffic

Event and Action Plan

4.11 Should any project related non-compliance of the criteria occur, action in accordance with the Event Action Plan in **Appendix J** shall be carried out.

5 WATER QUALITY MONITORING

Monitoring Requirements

- 5.1 According to the EM&A Manual, impact water quality monitoring shall be carried out three days per week during the construction period. The interval between two sets of monitoring shall not be less than 36 hours.
- 5.2 Replicate in-situ measurements and samples collected from each independent sampling event shall be collected to ensure a robust statistically interpretable database.
- 5.3 Impact water quality monitoring was conducted at three depths (i.e. 1m below surface, mid-depth and 1m above river bed, except where the water depth was less than 6m, mid-depth station might be omitted. Should the water depth be less than 3m, only the mid-depth station was monitored) dissolved oxygen (DO) concentration, DO saturation, suspended solids (SS), turbidity, pH, salinity and temperature were monitored in accordance with the requirements set out in the EM&A Manual.
- 5.4 **Appendix B** shows the established Action and Limit Levels for the water quality monitoring work.

Monitoring Locations

- 5.5 Impact water quality monitoring was conducted at 6 monitoring stations under the Project, which is summarised in **Table 5.1**. The locations of monitoring stations are shown in **Figure 4**.
- 5.6 Based on the updated construction programme under Contract No. YL/2017/03, the water-based construction works for temporary vehicular bridge was completed on 7th April 2021 which was confirmed by Engineer Representative under Contract No. YL/2017/03 via email dated 15th June 2021. The additional monitoring station, BS1 was therefore proposed to be deleted from the water quality monitoring proramme starting from 28th June 2021. Other water quality monitoring stations remain unchanged. This Proposal for Update of Water Quality Monitoring Stations was verified by IEC and agreed by EPD via email dated 22nd June 2021.

 Table 5.1
 Location for Water Quality Monitoring Stations

Monitoring Station	Location	Nature of the Location
CS1	Control Station at Old Shenzhen River	Control Station at Meander
IS1	Impact Station at Old Shenzhen River	Impact Station at Meander
IS2	Impact Station at Old Shenzhen River	Impact Station at Meander
IS4	Impact Station at Ping Hang Stream	Reference Station
CS5	Control Station at south of Lung Hau	Control Station for IS6
IS6	Impact Station near Lung Hau Road	Impact Station
⁽¹⁾ BS1	Impact Station at Old Shenzhen River Meander	Additional impact station for temporary vehicular bridge

Note:

 Terminated starting from 28th June 2021 according to Proposal for Update of Water Quality Monitoring Stations (approved by EPD on 22nd June 2021).

Monitoring Equipment

Instrumentation

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

DO and Temperature Measuring Equipment

- 5.8 The instrument for measuring DO and temperature was portable and weatherproof complete with cable, sensor, comprehensive operation manuals and use DC power source. It was capable of measuring:
 - A DO level in the range of 0-20 mg/L and 0-200% saturation; and
 - A temperature of 0-45 degree Celsius.
- 5.9 It had a membrane electrode with automatic temperature compensation complete with a cable.
- 5.10 Sufficient stocks of spare electrodes and cables were available for replacement where necessary.
- 5.11 Salinity compensation was built-in in the DO equipment.

Turbidity

5.12 Turbidity was measured in-situ by the nephelometric method. The instrument was portable and weatherproof using a DC power source 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 SS. The turbidity measurement was carried out on split water sample collected from the same depths of SS samples.

Sampler

5.13 A water sampler, consisting of a transparent Polyvinyl Chloride (PVC) of a capacity of not less than two litres which could 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 self-made sampling bucket was also used for sampling at the monitoring station with shallow water.

Water Depth Detector

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

Ηď

5.15 The instrument was consisting 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.

Salinity

5.16 A portable salinometer capable of recording salinity within the range of 0-40 ppt was used for salinity measurements.

Sample Container and Storage

- 5.17 Following collection, water samples for laboratory analysis were stored in high density polythene bottles (250ml/1L) with no preservatives added, packed in ice (cooled to 4 C without being frozen) and kept in dark during both on-site temporary storage and shipment to the testing laboratory. The samples were delivered to the laboratory as soon as possible and the laboratory determination work was started within 24 hours after collection of the water samples. Sufficient volume of samples was collected to achieve the detection limit.
- 5.18 **Table 5.2** also summarises the type of sampling bottle and preservation method for laboratory testing.

Table 5.2 Types of Sampling Bottle and Preservation Method

Parameter	Preservation Method	Type of Sample Container
Total SS	Refrigerate	1 litre plastic bottle

Calibration of In-Situ Instruments

- 5.19 All in-situ monitoring instruments were checked, calibrated and certified by Wellab Limited before use, and subsequently re-calibrated at 3-month intervals throughout all stages of the water quality monitoring programme. Responses 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 event.
- 5.20 For the on-site calibration of field equipment (Multi-parameter Water Quality System), the BS 1427:2009, "Guide to on-site test methods for the analysis of waters" was observed.
- 5.21 Sufficient stocks of spare parts were maintained for replacement when necessary. Backup monitoring equipment was also being made available so that monitoring could proceed uninterrupted even when some equipment was under maintenance, calibration, etc.
- 5.22 The equipment used for impact water quality monitoring is shown in **Table 5.3** and copies of the calibration certificates are shown in **Appendix C**. All the monitoring equipment complied with the requirements set out in the EM&A Manual.

Table 5.3 Water Quality Monitoring Equipment

Equipment	Model and Make	Quantity
Sonar Water Depth Detector	Garmin Fishfinder 140 / Garmin Striker plus 4	1
Water Sampler	A 2-litre transparent PVC cylinder with latex cups at both ends or self-made sampling bucket	1
Multi-parameter Water Quality System	YSI EXO 1	1

Monitoring Parameters and Frequency

5.23 **Table 5.4** summarises the monitoring parameters, monitoring depths and frequency of the water quality monitoring. The water quality monitoring schedule for the reporting month is shown in **Appendix D**.

Monitoring **Depth** Frequency Parameter (unit) Station 3 water depths: 1m Temperature(°C) below water surface, pH (pH unit) mid-depth and 1m above turbidity (NTU) river bed. 3 days per week water depth (m) • If the water depth was during the CS1, IS1, IS2, less than 3m, mid-depth salinity (ppt) construction period IS4, CS5, IS6 sampling only. of the Project DO (mg/L and • If water depth was less % of saturation) than 6m, mid-depth SS (mg/L)might be omitted.

Table 5.4 Water Quality Monitoring Parameters, Depths and Frequency

5.24 Monitoring location/position, time, water depth, sampling depth, pH, salinity, DO saturation, water temperature, tidal stages, weather conditions and any special phenomena or work underway nearby were recorded.

Monitoring Methodology

Instrumentation

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

Operating/Analytical Procedures

5.26 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 values between the first and second readings of each set was more than 25% of the value of the first readings, this set of readings was discarded and further readings were taken.

Laboratory Analytical Methods

5.27 The testing of all parameters was conducted by Wellab Limited for the water samples and comprehensive QA and QC procedures were in place in order to ensure the quality and consistency of results. The testing method, reporting limit and detection limit are provided in **Table 5.5**.

Table 5.5 Laboratory Analysis Method for Water Samples

Determinant	Instrumentation	Analytical Method	Limit of Reporting	Detection Limit
SS	Weighing	APHA 17ed 2540 D	2.5 mg/L	0.5 mg/L

Remark: The limit of reporting, 2.5mg/L has been adopted during baseline water quality monitoring stage

QA/QC Requirements

Decontamination Procedures

5.28 Water sampling equipment used during the course of the monitoring programme was decontaminated by manual washing and rinsed clean seawater/distilled water after each sampling event. All disposal equipment was discarded after sampling.

Sampling Management and Supervision

- 5.29 All sampling bottles were labelled with the sample identity laboratory number and sampling date. Water samples were dispatched to the testing laboratory for analysis as soon as possible after the sampling. All samples were stored in a cool box and kept at 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.
- 5.30 The laboratory determination work was started as soon as possible after collection of the water samples.

QC Measures for Sample Testing

- 5.31 The sample testing and following QC programme were performed by Wellab Limited for every batch of 20 samples:
 - ♦ One method blank; and
 - ♦ One set of QC samples.

Maintenance and Calibration

5.32 All in-situ monitoring instruments were checked, calibrated and certified by Wellab Limited before use, and subsequently re-calibrated at 3-month intervals throughout all stages of the water quality monitoring programme.

Results and Observations

- 5.33 The monitoring results and graphical presentation of water quality at the monitoring stations are shown in **Appendix H.**
- 5.34 The summary of exceedance recorded in the reporting month is shown in **Appendix K** and summarised in the **Table 5.6**.

Wellab

Station	Exceedance Level	DO	Turbidity	SS	Total Number of Non-project Related Exceedances	Total Number of project Related Exceedances
IS1	Action Level	0	0	0	0	0
	Limit Level	0	0	0	0	0
IS2	Action Level	0	0	0	0	0
	Limit Level	0	0	0	0	0
IS4	Action Level	0	0	0	0	0
	Limit Level	0	0	0	0	0
IS6	Action Level	0	0	0	0	0
	Limit Level	0	0	0	0	0
Total	Action Level	0	0	0	0	0
1 Otal	Limit Level	0	0	0	0	0

Table 5.6 Summary of Water Quality Exceedances

- 5.35 Water quality monitoring was conducted according to the schedule as shown in **Appendix D**. No Action/Limit Level exceedance was recorded.
- 5.36 No water quality monitoring was conducted at IS6 in the reporting month since the channel was dry. Water quality monitoring station, IS6 will be further reviewed and a proposal for any alternative monitoring location including justification will be submitted for approval from IEC and EPD (if necessary).



<u>IS6</u>

Event and Action Plan

5.37 Should any project related non-compliance of the criteria occur, action in accordance with the Event Action Plan in **Appendix J** shall be carried out.

6 ECOLOGICAL MONITORING

LMC Loop

Monitoring Requirements (Avifauna Monitoring – Flight Line Survey)

Monitoring Requirements

- 6.1 As required under Section 11.4.1.1 of EM&A Manual, flight line corridor survey was required from the beginning of work until 12 months after the establishment of the Ecological Area or completion of work on the Western Connection Road, whichever was the later.
- 6.2 The purpose of the survey was to identify the number and species composition of birds using the flight line and monitor if there was any impact from construction works.

Monitoring Frequency

6.3 Flight line survey is required to be carried out on monthly basis.

Monitoring Location

6.4 The flight line corridor survey work should be carried out at the Lok Ma Chau Lookout, according to Section 11.4.1.1 of the EM&A Manual. The location at Lok Ma Chau Lookout is shown in **Figure 5a.**

Monitoring Methodology

- 6.5 Flight lines of birds through the area were surveyed once monthly at Lok Ma Chau Lookout, adjacent to the Loop.
- 6.6 Observations were carried out at Lok Ma Chau Lookout for two hours from 30 minutes before sunrise in the early morning.
- 6.7 During the survey, the surveyor marked on a standard map for the estimated location of the flight path used by waterbird species, birds of prey or other larger species of conservation interest passing through the area. Flights involving short hops from point to point were not recorded. The focus was on the flight line corridor over the Loop or the southwest section of old Shenzhen River meander.
- 6.8 During the survey, species generally commensal with man (e.g. Black-collared Starling), common and widespread in HK (e.g. Crested Myna) or small in size and not prone to following flight lines en masse (e.g. Barn Swallow) were ignored in order to concentrate on species of conservation interest and/or those prone to using flight lines (e.g. large waterbirds).
- 6.9 For each observation of birds in flight, the number, the species and their height above the ground were recorded. Height above the ground was estimated in relation to the level of the Loop and adjacent fish pond area, and/or the location of the observer.

- 6.10 Given the difficulty of accurately measuring height above ground from a distance, three height classes were used: 10m, 20m and 30m or above. In practice, this means birds were assigned to ranges of 5-15m (10m height class), 15-25m (20m height class) and 25m or above (30m height class). Approximate heights of observation points were 40m at Lok Ma Chau Lookout.
- 6.11 Flight line locations marked on the maps were then overlain with a 100m grid, each square having a unique number.
- 6.12 The number of birds of each species passing through each 100m grid (the number of "bird-flights") and their height above ground were then entered into an Excel spreadsheet. These data were then mapped, and on the figures produced a greater intensity of colour indicated a higher number of birds, as shown in **Figure 6.**

Monitoring Day

6.13 The flight line survey was carried out on 25th October 2024. Sunrise time at 6:24 am and the survey started at 5:54 am and lasted for 2 hours. The weather was fine throughout the survey.

Monitoring Result

6.14 Total number of birds observed was 466. Seven species were included in the record of the flight line survey, including Little Egret, Great Egret, Chinese Pond Heron, Grey Heron, Great Cormorant, Black Kite and Collared Crow. **Table 6.1** shows the summary of the number of birds observed in this Survey.

Species	Number of Birds	Height class 1	Height Class 2	Height Class 3
Little Egret 小白鷺	38	0	5	33
Great Egret 大白鷺	97	0	9	88
Chinese Pond Heron 池鷺	4	0	3	1
Grey Heron 蒼鷺	18	0	1	17
Great Cormorant 普通鸕鷀	306	0	11	295
Black Kite 黑鳶	2	0	0	2
Collared Crow 白頸鴉	1	0	0	1
Total	466	0	29	437

Table 6.1 Number of Birds Observed

- 6.15 The total number of bird-flights (number of birds of each species passing through each 100m square) observed across all 100m grid squares was 4,586. **Table 6.2** shows the number of bird-flights for the seven species respectively.
- 6.16 The distribution of flight line usage in this survey is shown in **Figure 6**.
- 6.17 Flight lines recorded were in general concentrated mainly on LMC Meander and adjacent areas including Ecological Area Zone (EA Zone). It demonstrates that the large waterbirds including migratory waterbirds, Great Cormorant prefer using the flight line corridor above the LMC Meander and adjacent areas including EA Zone instead of the centre of LMC Loop.

Total number of **Species Bird-Flights** Little Egret 小白鷺 368 Great Egret 大白鷺 948 Chinese Pond Heron 池鷺 22 Grey Heron 蒼鷺 169 Great Cormorant 普通鸕鷀 3,049 Black Kite 黑鳶 20 Collared Crow 白頸鴉 10 4,586 Total

Table 6.2 Number of Bird-flights

Monitoring Requirements (Mammals)

Monitoring Requirements

- 6.18 As required under Section 11.4.1.2 of the EM&A Manual, monitoring of mammals are required for Eurasian Otter, other mammals and dogs during the site formation and establishment period of Ecological Area.
- 6.19 The purpose of the monitor is to observe the connectivity between the reed marsh in the LMC Loop and the Ecological Area, and if there was any sign of otter and mammals around the Ecological Area.

Monitoring Location

6.20 Three cameras should be placed where accessible, facing towards the Ecological Area and the Loop. The locations of cameras are subject to the project progress and result of the survey.

Monitoring Methodology

6.21 Monitoring of Eurasians Otter is notoriously difficult due to their secretive and nocturnal habits in Hong Kong. Therefore, remote-sensing (infra-red flash) cameras shall be used to detect any signs of Eurasian Otter and mammals.

Monitoring Results

- 6.22 In view of current site condition of Loop, the connectivity between the reed marsh in the LMC Loop and the EA Zone has been fenced off due to other project's land occupier. In addition, 12-month establishment period of EA zone has also been completed.
- 6.23 The mammals monitoring in the Loop was therefore temporarily suspended since March 2022 and will be resumed subject to the site condition.

Western Connection Road

Monitoring Requirements (Avifauna Monitoring – Flight Line Survey)

6.24 Refer to Sections 6.1 to 6.17.

Monitoring Requirements (Avifauna Monitoring - Pond 12)

Monitoring Requirements

- 6.25 As required under Section 11.4.2.1 of EM&A Manual, weekly counts of the number and species of bird using Pond 12 was required from the beginning of work until 12 months after the establishment of the Ecological Area or completion of work on the Western Connection Road, whichever is the later.
- 6.26 The purpose of the survey was to identify the number and species composition of birds using Pond 12 to ensure there would be no impacts greater than predicted from construction works.

Monitoring Frequency

6.27 Pond 12 avifauna survey is required to be carried out on a weekly basis.

Monitoring Location

6.28 Monitoring of avifauna was conducted at Pond 12. Location of Pond 12 is shown in **Figure 5a**.

Monitoring Methodology

- 6.29 The species and number of birds using Pond 12 were surveyed weekly. Each weekly survey started before the commencement of works of the day, and ended 1 hour after works had begun.
- 6.30 During the survey, the surveyor would identify and count each bird using Pond 12 with a pair of binoculars and a camera. The abundance and species of the identified birds would be recorded.

Monitoring Result

6.31 Pond 12 avifauna surveys were carried out weekly in the reporting month.

- 6.32 In total, 454 individuals from 25 avifauna species were recorded at Pond 12 in the reporting month. The detailed results are shown in **Appendix R1**.
- 6.33 The monitoring results during construction works were compared against the results before the commencement of works of the day. The number of bird species and the abundance of birds recorded at Pond 12 during construction were higher than the results prior to the construction works. (Refer to **Table 6.3**).

Manitarina Data	Number of Species		Abundance	
Monitoring Date	Before Construction	During Construction	Before Construction	During Construction
3 rd October 2024	8	12	19	24
10 th October 2024	8	15	14	28
16 th October 2024	10	13	62	62
21st October 2024	10	11	56	59
30 th October 2024	10	12	61	69

Table 6.3 Summary of Avifauna Monitoring Results at Pond 12

6.34 The monitoring results indicated Pond 12 was utilized by waterbirds and wetland-dependent species in the reporting month. No significant impact of construction activities on bird use of the pond was observed.

Herpetofauna

Monitoring Requirements

- 6.35 Under Section 11.4.2.2 of EM&A Manual, monitoring of the only herpetofauna species of conservation interest in the area around pond 12, the Chinese Bullfrog, should be conducted before and during the whole construction period.
- 6.36 The purpose of the survey was to ensure the abundance of the Chinese Bullfrog in the area of Pond 12, LMC Tsuen, and nearby wetlands is not affected by construction works.

Monitoring Frequency

6.37 Herpetofauna monitoring was conducted once monthly during wet season (March to October), including both day-time and night-time survey.

Monitoring Location

6.38 Herpetofauna monitoring was conducted along the designated transect around Pond 12, LMC Tsuen, as well as any nearby wetlands within a 100m radius into which disturbed bull frog may move. Location of the Herpetofauna survey transect is shown in **Figure 5b** for reference.

Monitoring Methodology

6.39 Survey along the transect was conducted once during daytime, and once during night time. Surveyors would actively search for presence of tadpoles, froglets or adults in potential habitats (such as ditches, ponds, marshes and wet agricultural land) through direct observation, or identification of vocalisations.

Monitoring Result

6.40 Herpetofauna survey was carried out once in the reporting month.

Date of Herpetofauna survey:

17th October 2024 (both day-time and night-time survey)

6.41 No potential impact due to the construction activities of Western Connection Road was identified during the survey of Chinese Bullfrog in the reporting month. It was observed that the shallow agricultural ponds where Chinese Bullfrog were recorded has been altered into relatively dry agricultural lands, which may have an effect on the local Chinese Bullfrog population. The detailed results are shown in **Appendix R2**.

Aquatic Fauna

Monitoring Requirements

- 6.42 Under Section 11.4.2.3 of EM&A Manual, surveys of the population of Rose Bitterling at streams and associated ponds south of Lung Hau Road and monitoring of water quality are required to identify potential impacts.
- 6.43 The purpose of the survey was to ensure the population of Rose Bitterling at the stream and associated ponds south of Lung Hau Road as well as the water quality at the area where Rose Bitterling is present are not affected by construction works.

Monitoring Frequency

- 6.44 Monitoring of Rose Bitterling population was conducted monthly during the construction period of WCR to identify potential impacts.
- 6.45 *In situ* monitoring of water quality was conducted weekly at the stream and associated ponds south of Lung Hau Road where Rose Bitterling is present, and whole site audit was carried out at the construction site to identify potential impacts on the stream.
- 6.46 *In situ* monitoring of water quality in LMC Meander was conducted weekly during the construction phase and the first 12 months of operation.

Monitoring Location

- 6.47 Monitoring of Rose Bitterling and *in situ* monitoring of water quality were conducted at the stream and associated ponds south of Lok Ma Chau Road where Rose Bitterling is present. There are 4 sampling points along the stream, and 4 sampling points at the ponds. The sampling locations are shown in **Figure 5c**.
- 6.48 *In situ* monitoring of water quality in LMC Meander was conducted at 3 monitoring stations, including CS1, IS1 and IS2, as stated in Section 6.3 of the EM&A Manual. The monitoring stations are shown in **Figure 4**.

Monitoring Methodology

- 6.49 Monitoring of Rose Bitterling was conducted by bankside observation with the aid of binoculars, for 5 minutes at each sampling point. After bankside observation, sweep netting was also carried out at each sampling point, if feasible.
- 6.50 The number of Rose Bitterling observed on bankside and by sweep netting at each sampling location was recorded. Other human activities or change in environment that may affect the survey result will be specified, if any.
- 6.51 Measurements for *in situ* monitoring of water quality include temperature, pH, salinity, turbidity and dissolved oxygen. Monitoring equipment for water quality monitoring is presented in Section 5.

Monitoring Result

6.52 Aquatic fauna survey was carried out once and weekly *in situ* water quality monitoring was conducted in the reporting month.

Date of Aquatic Fauna Survey: 23rd October 2024

LMC Meander

2nd, 4th, 7th, 9th, 12th, 14th, 16th, 18th, 21st,

Date of Water Quality Monitoring for 23rd, 25th, 28th and 30th October 2024

Aquatic Fauna Stream and associated ponds south of

Lung Hau Road

2nd, 7th, 16th, 23rd, 30th October 2024

- 6.53 No potential impact due to the runoff from the construction activities of the Western Connection Road was identified during the survey of Aquatic Fauna in the reporting month. In addition, no deterioration in the water quality due to the construction activities of the Western Connection Road was observed.
- 6.54 The detailed aquatic fauna (Rose Bitterling) results and *In situ* water quality monitoring results at the stream and associated ponds south of Lung Hau Road are shown in **Appendices R3** and **R4** respectively.
- 6.55 *In situ* water quality monitoring results in LMC Meander at 3 monitoring stations, including CS1, IS1 and IS2 are presented in Section 5 and **Appendix H**. No Action/Limit Level exceedance was recorded.

7 LAND CONTAMINATION

General

7.1 According to the EM&A Manual Section 8.2 and the details of the remediation and associated testing referred to in Chapter 8 of the EIA Report (AEIAR-176/2013), five (5) arsenic-contaminated zones were identified within the Loop. The estimated depth and volume of contaminated soil for each remediation zone are listed in **Table 7.1** below.

 Table 7.1
 Detailed Contamination Information for Designated Remediation Areas

Contamination Zone ID in EIA	Contamination Hot Spot	Estimated Vertical Extent of Contamination	Estimated Thickness (m)	Estimated Area of Contamination Zone (m ²)	Volume of
A-S24	LD-001	2.5m to 4.0m below existing ground level	1.5	4001	6002
A-SG10	LD-002	4.0m to 5.5m below existing ground level	1.5	3520	5280
A-S20	LD-003	2.5m to 4.0m below existing ground level	1.5	4989	7484
A-S03	LD-004-A	2.5m to 4.0m below existing ground level	1.5	4580	6870
A-S03a1	LD-004-B	4.0m to 5.5m below existing ground level	1.5	4452	6678
A-S03c1	LD-004-C	1.0m to 2.5m below existing ground level	1.5	5601	8402
A-S01	LD-005	2.5m to 5.5m below existing ground level	3.0	5576	16728

7.2 Based on the Contract requirements, "Solidification / Stabilisation" was the recommended treatment method to remediate all contaminated soils and Portland cement was proposed to be used for the contaminated soil treatment. The target of soil remediation is listed in **Table 7.2**.

Table 7.2 Contaminant Solidification & Stabilisation Target for Cement Solidification / Stabilisation (CS/S)

Contaminant	Toxicity Characteristic Leaching Procedure (TCLP) Limit of Arsenic	Unconfined Compressive Strength (UCS)
Metal – Arsenic	≤5 mg/L	≥1 Mpa

7.3 Trial of CS/S was undertaken between April and June 2019 and the second trial was conducted in August 2019. According to trial performance results, cement / soil ratios of 10% and 7.5% could achieve the remediation target and these ratios had been adopted for the subsequent remediation work. The proposed cement/soil ratios were accepted by

relevant parties before the remediation work started. The contaminated soil excavation and remediation commenced on site in mid-July 2019.

Remediation Work Progress in the Reporting Month

- 7.4 As advised by the Contractor, Decontamination for all Hotspots (LD01 LD05) was completed and backfilling of treated soil was completed on 31 May 2021. After completion of remediation works at each hot spots, Interim Remediation Reports (IRR) would be prepared by the Land Contamination Specialist and submitted to EPD in accordance with Condition 2.16 of the EP. The status of IRRs are summarised below.
 - (a) IRR for hot spot LD-001 endorsed by EPD on 6th January 2020
 - (b) IRR for hot spot LD-003 endorsed by EPD on 18th March 2020
 - (c) IRR for hot spot LD-002 commented by EPD on 3rd September 2020 and resubmitted by Contractor on 16th September 2020
 - (d) IRR for hot spot LD-005 endorsed by EPD on 23rd October 2020
 - (e) Final Remediation Report including the result of hotpsot LD-004 was submitted to EPD on 28th June 2021. The final Remediation Report was approved by EPD with minor comments in August 2021.
- 7.5 No work related to land contamination was conducted in the reporting month.

8 WASTE MANAGEMENT

General

8.1 Waste management was carried out in accordance with the Waste Management Plan (WMP) for the Project.

Solid and Liquid Waste Management Status

8.2 The amount of waste generated by the activities of the Project in the reporting month is shown **Table 8.1**.

 Table 8.1
 Quantities of Waste Generated in the Reporting Month

Contract(s)	Waste Type		Quantity this month	Disposal / Dumping Grounds
		Reused in this Contract (Inert) (in '000 m ³)	0	N/A
Contract No. YL/2020/01		Reused in other Contracts/ Projects (Inert) (in '000 m ³)	0	N/A
		Disposal as Public Fill (Inert) (in '000 m ³)	10.397	Tuen Mun Area 38 Fill Bank
		Reused in this Contract (Inert) (in '000 m ³)	0	N/A
Contract No. YL/2020/02	Inert	Reused in other Contracts/ Projects (Inert) (in '000 m ³)	0	N/A
		Disposal as Public Fill (Inert) (in '000 m ³)	1.611	Tuen Mun Area 38 Fill Bank
		Reused in this Contract (Inert) (in '000 m ³)	0	N/A
Contract No. YL/2021/01		Reused in other Contracts/ Projects (Inert) (in '000 m ³)	0	N/A
		Disposal as Public Fill (Inert) (in '000 m ³)	0	N/A
		Recycled Metal ('000kg)	0.007	N/A
Contract No.		Recycled Paper / Cardboard Packing ('000kg)	0.046	N/A
YL/2020/01		Recycled Plastic ('000kg)	0.013	N/A
		Chemical Wastes ('000kg)	0	N/A
		General Refuses ('000m ³)	0.715	NENT Landfill
		Recycled Metal ('000kg)	0.001	N/A
Contract No.	Non-	Recycled Paper / Cardboard Packing ('000kg)	0.037	N/A
YL/2020/02	inert	Recycled Plastic ('000kg)	0.001	N/A
		Chemical Wastes ('000kg)	0	N/A
		General Refuses ('000m ³)	0.440	NENT Landfill
		Recycled Metal ('000kg)	0.023	N/A
Contract No.		Recycled Paper / Cardboard Packing ('000kg)	0.100	N/A
YL/2021/01		Recycled Plastic ('000kg)	0.058	N/A
		Chemical Wastes ('000kg)	0	N/A
		General Refuses ('000m ³)	0.018	NENT Landfill

8.3 The amount of waste generated by the construction works of the Project in Waste Flow Table during the reporting month is shown in **Appendix O**.

9 ENVIRONMENTAL SITE INSPECTION

Site Audits

- 9.1 Site audits were carried out by ET on weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures on the Project site. The summaries of site audits are attached in **Appendix L**.
- 9.2 Site audits were conducted by ET with the representative of the Consultants, the Contractor and IEC on 2nd, 7th, 9th, 14th, 16th, 21st, 24th, 28th and 30th October 2024 in the reporting month. Summary of site audits under the Project are presented in **Table 9.1**. The details of observations during site audit are shown in **Table 9.2**.

Table 9.1 Summary of Site Audits

Contract(s)	Date(s) of Site Environmental Audit
Contract No. YL/2020/01 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 1 Site Formation and Infrastructure Works inside Lok Ma Chau Loop and Western Connection Road Phase 1	2 nd , 9 th , 16 th , 21 st and 30 th October 2024
Contract No.: YL/2020/02 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling / San Tin Highway and Direct Road Link Phase 1	2 nd , 7 th , 16 th , 24 th and 30 th October 2024
Contract No.: YL/2021/01 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 3 Direct Road Link Phase 2	7 th , 14 th , 21 st and 28 th October 2024

9.3 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 9.2**.

Table 9.2 Observations and Recommendations of Site Audit

Parameters	Date	Observations and	Follow-up				
		Recommendations					
Contract No. YL	Contract No. YL/2020/01						
Air Quality	30/10/2024	during vehicle movement	Misting cannon was provided by the Contractor for dust suppression as observed during follow-up audit session on 6/11/2024.				
Noise	2/10/2024 9/10/2024	Noise mitigation measures should be provided for the breaking works at Road L1.	The breaker without noise mitigation measures has been removed off site by the Contractor as observed during follow-up audit session on 16/10/2024.				
Water Quality	16/10/2024	Silt curtain should be properly deployed locally surrounding the works area and gap should be	work area with no gap by the				

Parameters	Date	Observations and Recommendations	Follow-up
	21/10/2024	The construction wastes (e.g., handrail etc.) outside the fencing at Road L1 should be cleared.	follow-up audit session on 30/10/2024.
Waste / Chemical Management	2/10/2024 9/10/2024	sedimentation tank near the meander bridge north should be cleared.	The foam wastes at near the sedimentation tank have been cleared by the Contractor as observed during follow-up audit session on 16/10/2024.
Land Contamination		No major environmental deficiency was identified during the reporting month.	
Landscape and Visual		No major environmental deficiency was identified during the reporting month.	
Ecology	2/10/2024 9/10/2024	Sand bag bund along the fencing for the EA Zone should be properly deployed to avoid any gap.	Sand bag bund along the fencing for the EA Zone has been properly deployed by the Contractor as observed during follow-up audit session on 16/10/2024.
Fisheries		No major environmental deficiency was identified during the reporting month.	
Permits/Licences		No major environmental deficiency was identified during the reporting month.	
Contract No. YL	/2020/02		
	2/10/2024	The broken concrete debris, sand and soil at the pedestrian walkway along LMC Road should be cleared.	The broken concrete debris, sand and soil at the pedestrian walkway have been cleared by the Contractor as observed during follow-up audit session on 7/10/2024.
	2/10/2024	NRMM labels should be properly displayed on the excavator / breaker at LMC Road.	NRMM labels have been properly displayed on the excavator / breaker by the Contractor as observed during follow-up audit session on 7/10/2024.
Air Quality	2/10/2024	The exposed soil at the LMC Road should be properly compacted or lowered the level.	The level of the exposed soil has been lowered as far as possible which will be used for planting works by the Contractor as observed during follow-up audit session on 7/10/2024.
	24/10/2024	Noise and dust mitigation measures should be provided for the breaking works at CS1.	The breaking works have been completed and the concerned plant equipment has been removed off site. Anyway, noise and dust mitigation measures for the same type of works have been implemented at other

Parameters	Date	Observations and Recommendations	Follow-up
			location of contract site by the Contractor as observed during follow-up audit session on 30/10/2024.
	30/10/2024	Dust suppression measures should be enhanced for the dust generation works and exposed site area at CS1, LCS and Chau Tau West Road.	Water spraying has been applied for the dust generation works and exposed site area by the Contractor as observed during follow-up audit session on 6/11/2024.
	30/10/2024	The mud trails at the site exit at Pun Uk Tsuen should be cleared.	The mud trails at the site exit have been cleared by the Contractor as observed during follow-up audit session on 6/11/2024.
	2/10/2024	Movable noise barriers for the noisy breaking works should be erected at LMC Road.	Movable noise barriers have been provided on site for the noisy works, if any, by the Contractor as observed during follow-up audit session on 7/10/2024.
Noise	24/10/2024	Noise and dust mitigation measures should be provided for the breaking works at CS1.	The breaking works have been completed and the concerned plant equipment has been removed off site. Anyway, noise and dust mitigation measures for the same type of works have been implemented at other location of contract site by the Contractor as observed during follow-up audit session on 30/10/2024.
	2/10/2024 7/10/2024 16/10/2024	The site exit should be hard-paved to prevent tracking of mud by vehicles exiting construction sites (near DRL-P02 & 03).	The road section between the washing facilities and the exit point has been paved with the steel plate and regularly cleared by the Contractor as observed during follow-up audit session on 24/10/2024.
Water Quality	2/10/2024	The collected groundwater should be properly treated and discharged with valid discharge license (Chau Tau West Road).	No directly discharge of the construction site runoff was observed and a notice to remind the worker not to discharge the untreated site discharge was provided on site by the Contractor as observed during follow-up audit session on 7/10/2024.
	2/10/2024	The site drainage system at the works area of box culvert should be properly established to avoid any muddy water discharging out (Chau Tau West Road).	The sand bag bund has been further enhanced by the Contractor so that no muddy water discharging out directly as observed during follow-up audit session on 7/10/2024.

Parameters	Date	Observations and Recommendations	Follow-up
	16/10/2024	The sand bag bund for the bypass system should be enhanced (Fu Tai Site Area).	Sand bag bund has been enhanced for the bypass system by the Contractor as observed during follow-up audit session on 24/10/2024.
Waste / Chemical	2/10/2024	The domestic wastes should be properly disposed on site at near DRL-P05.	cleared by the Contractor as observed during the follow-up audit session on 7/10/2024.
Management	16/10/2024	Appropriate rubbish bin should be provided on site to avoid any rubbish falling into the nearby nullah (Fu Tai Site Area).	Appropriate rubbish bin has been provided on site by the Contractor as observed during the follow-up audit session on 24/10/2024.
Land Contamination		No major environmental deficiency was identified during the reporting month.	
Landscape and Visual	2/10/2024	The construction materials / wastes and concrete debris next to the trees / outside the site boundary should be removed (near Pun Uk Tsuen and Chau Tau West Road).	The construction materials / wastes and concrete debris next to the trees / outside the site boundary have been cleared by the Contractor as observed during the follow-up audit session on 7/10/2024.
	7/10/2024	The construction materials / wastes at near the Pond / outside the site boundary should be cleared (TAR1).	The construction materials / wastes at near the Pond / outside the site boundary have been cleared by the Contractor as observed during the follow-up audit session on 16/10/2024.
Ecology	16/10/2024	The green fences should be properly maintained to avoid any construction materials falling into the nearby channel (DRL-P07).	The green fences have been properly maintained by the Contractor to avoid any construction materials falling into the nearby channel as observed during the follow-up audit session on 24/10/2024.
	30/10/2024	The site boundary should be demarcated clearly with fencing next to the grassland and all construction wastes at the grassland should be cleared.	The site boundary has been demarcated clearly by the Contractor with fencing next to the grassland and all construction wastes at the grassland have been cleared as observed during the follow-up audit session on 6/11/2024.
Fisheries		No major environmental deficiency was identified during the reporting month.	
Permits/Licences		No major environmental deficiency was identified during the reporting month.	
Contract No. YL Air Quality	/2021/01 	No major environmental deficiency	
An Quality		pro major environmental deficiency	<u></u>

Parameters	Date	Observations and Recommendations	Follow-up
		was identified during the reporting month.	
Noise		No major environmental deficiency was identified during the reporting month.	
Water Quality	21/10/2024	properly collected to avoid	avoid the concrete washing water
	28/10/2024	Sand bag bund should be properly deployed along the boundary of earth works at EPTI.	Sand bag bund has been properly deployed along the boundary of earth works by the Contractor as observed during follow-up audit on 4/11/2024.
Waste / Chemical Management		No major environmental deficiency was identified during the reporting month.	
Land Contamination		No major environmental deficiency was identified during the reporting month.	
Landscape and Visual	1	No major environmental deficiency was identified during the reporting month.	
Ecology		No major environmental deficiency was identified during the reporting month.	
Fisheries		No major environmental deficiency was identified during the reporting month.	
Permits/Licences		No major environmental deficiency was identified during the reporting month.	

10 IMPEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES

- 10.1 According to the EIA Report, EP and the EM&A Manual, the mitigation measures detailed in the documents are recommended to be implemented during the construction phase. An updated summary of the Environmental Mitigation Implementation Schedule is provided in **Appendix M**.
- 10.2 The compliance status of environmental mitigation measures related to the Project according to EP are summarised in **Table 10.1**.

Table 10.1 Compliance Status of Related Environmental Mitigation Measures

EP Condition 2.7	Status	Completion Time	Under Contract	Remarks			
Submission and Measures to Mitigate Ecological Impact							
To reduce the ecological impact during construction and operation stages of the Project, a series of ecological mitigation measures shall be implemented as conforming to the relevant information and recommendations, including those described in Section 12.7 (Ecological Mitigation Measures), contained in the							
		hose described	in Section 12.7 (Ecological Mi	tigation Measures), contained in the			
EIA Report. The key ecological mitigation		November	Development of Lok Ma	No otter holts/dens and			
(a) conducting pre-construction search for any otter holts/dens and	Completed	2018	Chau Loop – land	No otter holts/dens and herpetofauna species of			
herpetofaunal species of conservation		2016	decontamination and	conservation concern were			
concern in construction sites, with			advance engineering works	identified.			
remedial measures such as setting of no		July 2021	Development of Lok Ma				
works area around otter holts/den and		-	Chau Loop – Main Works				
translocation of important species			Package 1 – site formation				
identified, if any;			and infrastructure works				
(b) creating and establishing an	Completed	Dec 2022	Development of Lok Ma	Ecological monitoring survey in			
Ecological Area, approximately 12.78 ha. in size, containing reed marsh and	(for creating and establishing an Ecological Area)		Chau Loop – land decontamination and	the EA Zone during the 12-month establishment (1st January 2021 -			
marsh habitat prior to total clearance of	an Ecological Area)		advance engineering works	31st December 2021) and further			
reed marsh in the Loop, including a			advance engineering works	12-month establishment periods			
lowrise building buffer zone of 50m				(1st January 2022 – 31st			
width from the Ecological Area, with				December 2022).			
appropriate screenplanting;				The records of a key mammal, all			
				six key bird, one key herpetofauna			
				and three key dragonfly species,			
				as well as the breeding nests of birds and other species of			
				conservation importance			
				demonstrate the positive			
				attractiveness of this established			
				EA Zone in Lok Ma Chau Loop.			
	Not Completed (for lowrise			Operation phase ecological			
	building buffer zone of 50m			mitigation measure			
	width from the Ecological						
	Area, with appropriate						
	screenplanting;)						

EP Condition 2.7	Status	Completion Time	Under Contract	Remarks
(c) stabilising the bank of the old Shenzhen River meander of the Loop, approximately 3.5 km long, including re-vegetation upon completion of the works and various ecological designs, such as practicability of installation of otter holts and provision of potential feeding area and spraint locations for otters in the stabilised bank;	Not Completed			To be implemented under Main Works Package 1
(d) creating a 23 m minimum width vegetated setback at the edges of the Loop along the southwestern and northeastern sections of the meander;	Not Completed			Operation phase ecological mitigation measure
(e) installing 3m-high olive green fence around construction areas to allow or deter different animal passages where appropriate;	Completed	Dec 2020	Development of Lok Ma Chau Loop – land decontamination and advance engineering works	
	On-going		Development of Lok Ma Chau Loop – Main Works Package 1 – site formation and infrastructure works	The Contractor was reminded to maintain the green fence around construction areas.

EP Condition 2.7	Status	Completion Time	Under Contract	Remarks
(f) providing (i) permanent compensatory off-site wetland areas; and (ii) construction stage temporary compensatory off-site wetland areas during various construction stages of the Project, in advance of any corresponding wetland loss;	Completed	Oct 2022	Development of Lok Ma Chau Loop – Main Works Package 1 – site formation and infrastructure works	To mitigate the potential indirect and indirect construction disturbance of the LMC Loop Project (including the WCR); in which specific habitat features to promote their user by Eurasian Otter has been constructed, including the establishment of wetlands, otter holts, floating platforms, and rock platforms. Ecological monitoring survey in the OWCAs during the 12-month establishment (October 2022 – October 2023).
(g) providing at least 0.4 ha woodland compensation area by planting trees and shrubs near Horn Hill, to compensate for the loss of woodland affected by the Western Connection Road (WCR) and other works of the Project;	Completed	May 2024	Development of Lok Ma Chau Loop – Main Works Package 1 – site formation and infrastructure works	
EP-477/2013/A (h) carrying out outside dry-season (from November to February next year), the construction works associated with the site formation in the Ecological Area, stabilization of the bank of the old Shenzhen River meander, Western Connection Road along Ha	Completed (the construction works associated with the site formation in the Ecological Area)	Dec 2020	Development of Lok Ma Chau Loop – land decontamination and advance engineering works	
Wan Tsuen Road, to minimise disturbances to migratory birds/water birds; EP-477/2013/B (h) carrying out outside dry-season (from November to February next year), the construction works	Not Completed (stabilization of the bank of the old Shenzhen River meander)			To be implemented under Main Works Package 1
associated with the site formation in the Ecological Area and stabilization of the bank of the old Shenzhen River meander, to minimise disturbances to migratory birds/water birds;	Completed (Western Connection Road along Ha Wan Tsuen Road)	Until 28 December 2023	Development of Lok Ma Chau Loop – Main Works Package 1 – site formation and infrastructure works	

EP Condition 2.7	Status	Completion Time	Under Contract	Remarks
EP-477/2013/A (i) using powered mechanical equipment for construction works only during the period 9am to 5pm at and near the old Shenzhen River meander and other identified important ecologically sensitive areas, if any; EP-477/2013/B (i) using powered mechanical equipment for construction works only during the period 9am to 5pm at and near the old Shenzhen River meander (except the Meander Bridge) and other identified important ecologically sensitive areas, if any;	On-going		Development of Lok Ma Chau Loop – Main Works Package 1 – site formation and infrastructure works	*
(j) prohibiting use of direct lighting on the old Shenzhen River meander and controlling	Completed	Dec 2020	Development of Lok Ma Chau Loop – land decontamination and	
nighttime lighting to reduce potential ecological impact;	On-going		advance engineering works Development of Lok Ma Chau Loop – Main Works Package 1 – site formation and infrastructure works	Site wide implementation.
(k) implementing measures to minimise magnitude of construction runoff and to avoid/minimise the potential impact of		Dec 2020	Development of Lok Ma Chau Loop – land decontamination and advance engineering works	
spillage events, if any; and	On-going		Development of Lok Ma Chau Loop – Main Works Package 1 – site formation and infrastructure works	Site wide implementation.

EP Condition 2.7	Status	Completion Time	Under Contract	Remarks
(l) using opaque noise barriers along the proposed roads and using appropriate glass and façade treatment for buildings in the Loop to minimise the mortality of fast-moving wildlife (e.g. birds).	temporary noise barriers) Completed (for	•	Development of Lok Ma Chau Loop – land decontamination and advance engineering works Development of Lok Ma Chau Loop – Main Works Package 1 – site formation and infrastructure works	
	Not Completed (for Operation Stage Noise barriers and using appropriate glass and façade treatment for buildings in the Loop)			Operation phase ecological mitigation measure

EP Condition 2.7	Status	Completion Time	Under Contract	Remarks
Four hard copies and two electronic copies of an Ecological Mitigation / Habitat Creation and Management Plan shall be, at least one month before the commencement of corresponding parts of the works of the Project, deposited with the Director. The Plan(s) shall show the design details, locations, implementation programme, maintenance and management schedules, and drawings in the scale of 1:1,000 or other appropriate scale of the ecological mitigation measures of the Project. Before submission to the Director, the Plan(s) shall be certified by the ET Leader and verified by the IEC as conforming to the relevant information and recommendations contained in the EIA Report. All measures recommended in the finalised submission(s) under this Condition shall be fully and properly implemented.	Completed	May 2022 (Issue 3) Nov 2021 (Issue 4)	Development of Lok Ma Chau Loop – land decontamination and advance engineering works Development of Lok Ma Chau Loop – Main Works Package 1 – site formation and infrastructure works	

EP Requirements	Compliance Status	Remarks				
Submissions or Measures to be implemented for Const		roject				
EP Condition 2.9 To mitigate construction stage noise impact, the following noise mitigation measures shall be implemented during the construction stage of the Project:						
(a) temporary noise barriers shall be installed along the construction access roads to screen the construction traffic noise and noisy construction activities and equipment during different construction stages of the Project as described in Table 1 and Figures 2a, 2b, 3a and 3b of this Permit;	Yes	The temporary noise barriers (TNBs) along LMC Road were completed under the Contract in October 2021 (Figures 2a and 2b of EP-477/2013/B). (Appendix N) The TNBs installation under Contract 2 were completed in August 2022 (Figures 3a and 3b of EP-477/2013/B). (Appendix N) Due to the updated site condition, TNB5 deems to serve the function of TNB16 before the commencement of road widening works of the Western Connection Road.				
(b) use of movable noise barriers, noise enclosures and quiet powered mechanical equipment for the noisy construction activities and equipment as described in Table 1 and with reference to the typical designs as shown in Figure 4 of this Permit;	Yes	-				
(c) concrete lorry mixer(s) shall be operated at least 25 m away from the noise sensitive receivers (NSRs) No. HWTR-6 and HWTR-11 at the Western Connection Road as shown in Figures 2b and 3b as described in Table 1 of this Permit to avoid exceedance due to cumulative construction noise; and	Yes	-				
(d) no percussive piling nor blasting by explosive shall be implemented in the Project.	Yes	-				
EP Condition 2.10 To Mitigate Construction Stage Fisher	ies Impact					
For some fish ponds which will be partly affected by construction works, to mitigate construction stage fisheries impacts, a layer of sheet pile/barrier wall shall be erected to separate the works area from the remaining areas of the affected fish ponds before the commencement of other construction works, e.g. excavation or filling within the works area. The sheet pile/barrier wall shall be constructed by non-percussive piling method (e.g. Press-in method) to reduce the fisheries impact. In addition, the sheet pile/barrier wall shall have impermeable lining to minimise water loss from the fish pond to the works area.	Not applicable	Based on the ground truthing during the weekly site inspections / site visits prior to the commencement of the works at all Ponds, no fisheries impacts were anticipated due to the following observation: No aquaculture activities include drying of ponds, reprofiling, harvesting and feeding; No evidence of recently used pond culture equipment; No presence of fish-rearing paraphernalia and No evidence of trimming of vegetation growing on pond bund. As such, the erection of sheet				

EP Requirements	Compliance	Remarks
	Status	
		pile/barrier wall to mitigate construction stage fisheries impacts as stated in Condition 2.10 of the EP would not be applicable.
		The photographic records of Ponds in October 2024 are shown in Appendix S .
EP Condition 2.12 To Mitigate Construction Stage Water	Quality Impact	
To reduce sediment transport arising from the stabilisation works at the bank of the old Shenzhen River meander of the LMC Loop, cofferdam/diaphragm wall and/or silt curtain system shall be deployed to surround the works area, from water surface down to the bottom of the meander, in order to minimise the sediment loss to the water body outside the works areas.	Yes	Silt curtain system was deployed to surround the works area under YL/2020/01.
EP Condition 2.14 To Minimise the Disturbance to the Re	edbed System of	MTR LMC Spurline
For the construction of the Direct Link, the existing reeds in the reedbed system of the MTR LMC Spurline shall not be removed by the construction works of the Project, except for the 2 areas with a total area of approximately 320 m² in size within the Reedbed No. 3 as shown in Figure 5 of this Permit. Upon the completion of works at the reedbed system, the affected reedbed system shall be reinstated.	Yes	These measures have been implemented under YL/2020/02.

Remark: N/A – Not fulfilled yet

Ecological Mitigation Measures – Offsite Wetland Compensation Areas (OWCAs)

- 10.3 According to the EIA Report, habitat loss and disturbance impacts are predicted for both construction and operation phase of the development of Lok Ma Chau Loop. All these impacts are expected to be compensated both temporarily (during construction phase) and permanently (during operation phase). Among other measures identified from EIA report to avoid, minimize and compensate for identified impacts, three areas of existing fishpond habitat (Areas 2, 7 and 9) were proposed in the EIA Report to provide OWCAs.
- 10.4 These Areas are located within a Priority Site for Enhanced Conservation, namely "Deep Bay wetlands outside the Ramsar site". Many of these fishponds are currently participating in the Nature Conservation Management Agreement Scheme in the Northwest New Territories, which has the objective of restoring and enhancing the conservation value of commercial fishponds in the area. In general, the activities involved in the establishment of OWCAs are in nature the same as those associated with commercial fishpond management currently taking place in the area. Therefore, there are no direct implications for the ecological impacts at OWCAs according to Section 12.7.9 of EIA report.
- 10.5 Under EP, an Ecological Mitigation/ Habitat Creation and Management Plan (HCMP) is required for all habitat compensation measures required by the Project EIA. The OWCAs are established according to the HCMP which provides a framework and specifications for development and management of the OWCAs.

- 10.6 The OWCAs (Areas 2, 7 and 9) has been substantial completed and the starting date of establishment period is confirmed by AFCD on 14th October 2022.
- 10.7 According to Section 6.1.2 of approved HCMP, the monitoring of the OWCAs have been commenced for the establishment period starting from 14th October 2022. The Environmental Team would undertake the monitoring role through relevant EIAO Documents, audit mechanisms, participation at meetings, as well as certification of results and reports according to EM&A Manual, Section 11.5. The Monthly Monitoring and Management Report for OWCAs would be submitted by the Ecologist under YL/2020/01 separately.

Ecological Mitigation Measures – Installation of 3m-high Olive Green Fence

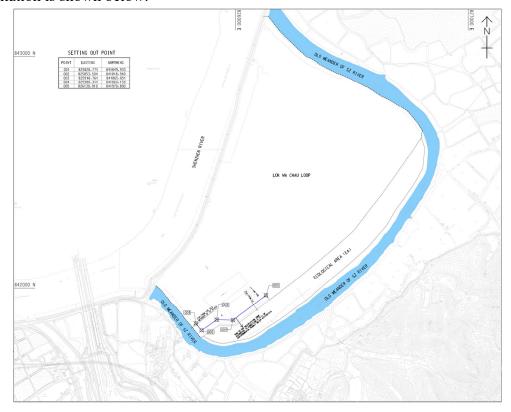
10.8 The green fence around the future Ribbon Park Reedbed has been removed and replaced by the hoarding due to the other project's land occupier since March 2022. (See Figure & photo below)





10.9 Installation of the green fence alongside the Ecological Area and the Meander was

proposed and completed on $20^{\rm th}$ May 2022. The layout plan of the green fence installation is shown below: -



10.10 The Contractor was reminded to maintain the green fence around construction areas and ensure no disturbance to the exiting trees and reed marsh habitat subject to the latest situation of LMC Loop.

11 ENVIRONMENTAL NON-CONFORMANCE (EXCEEDANCES)

Summary of Exceedances

- 11.1 Summary of exceedances is provided in **Appendix K**.
- 11.2 No Action/Limit Level exceedance was recorded for air quality monitoring, construction noise and water quality monitoring.

Summary of Environmental Complaint

11.3 No environmental complaint was received in the reporting month. The statistical summary table of the environmental complaints is presented in **Table 11.1** and the details and status of the investigation are presented in Complaint Log as attached in **Appendix P**.

Table 11.1 Statistical Summary of Environmental Complaints

Reporting Period	Environmental Complaint Statistics				
	Frequency Cumulative Project related complaint				
Jan 2019 – Sep 2024	28	28	1		
Oct 2024	0		0		

Summary of Notification of Summons and Successful Prosecutions

11.4 There was no prosecution or notification of summons received since the commencement of the Project. The statistical summary table of the summons and prosecution are presented in **Tables 11.2** and **11.3** respectively. Summary of successful prosecution as attached in **Appendix Q**.

 Table 11.2
 Statistical Summary of Environmental Summons

Reporting Period	Environmental Summons Statistics		
	Frequency	Cumulative	Project related summon
Jan 2019 – Sep 2024	0	0	0
Oct 2024	0		0

Table 11.3 Statistical Summary of Environmental Prosecution

Reporting Period	Environmental Prosecution Statistics		
	Frequency	Cumulative	Project related Prosecution
Jan 2019 – Sep 2024	0	0	0
Oct 2024	0		0

12 FUTURE KEY ISSUES

Key Issues in the Coming Months

12.1 Major site activities for the coming reporting months will include:

Contract No. YL/2020/01 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 1 Site Formation and Infrastructure Works inside Lok Ma Chau Loop and Western Connection Road Phase 1

- (a) WCR for 5 & 7 (Area 1), retaining Wall, slope Work, drainage
- (b) Meander Bridge South and Middle Spans Construction
- (c) Road L1 Drainage and UU enabling works
- (d) HWT Pai Lau Finishing Works
- (e) Box Culvert A1 Outfall Portion Construction
- (f) Wetland Fence Construction
- (g) PT1 drainage works

Contract No.: YL/2020/02 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling / San Tin Highway and Direct Road Link Phase 1

Reedbed Cell No. 3A:

(a) Monthly monitoring of the polishing function of the Reedbed Cell No. 3A.

DRL:

- (a) Temporary works.
- (b) Bored Pile works.
- (c) Sheet piling works.
- (d) ELS works.
- (e) Segment precast.
- (f) Pier construction.
- (g) Construction of pile cap.
- (h) Pre-drill works.
- (i) Construction of Base Slab.
- (j) Pierhead segment erection.

LMC Road:

- (a) Sheet-piling works.
- (b) Drainage works.

- (c) Bored piling works.
- (d) Water main installation.
- (e) Pile cap construction.
- (f) Nullah modification works.
- (g) Site formation.
- (h) Underground utilities works.
- (i) Construction of noise barrier.
- (j) Construction of box culvert.
- (k) Construction of retaining wall.
- (1) Construction of concrete structure.
- (m) Carpark traffic diversion works.
- (n) Traffic islands modification.

Fanling Highway:

- (a) Construction of retaining wall.
- (b) Pier construction.
- (c) Installation of pierhead segment.
- (d) Backfilling works for retaining wall.
- (e) Sheet-piling works for retaining wall.
- (f) Full span erection.
- (g) Fabrication of precast segment.
- (h) Installation of parapet at retaining wall.
- (i) Construction of subway.

Contract No.: YL/2021/01 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 3 Direct Road Link Phase 2

- (a) ELS Construction for EPTI Grid D & E.
- (b) Construction of pile caps, tie beams and columns for EPTI.
- (c) Construction of in-situ beams for EPTI.
- (d) Installation of precast beams for EPTI.
- (e) Construction and reinstatement of road and drains for EPTI.
- (f) Construction of columns and deck for DDFB.
- (g) Preparation works for next TTA Stage 4B in November 24.
- (h) ABWF Works in Lok Ma Chau Station.
- 12.2 Dust can be generated during construction works and exposed site area in the upcoming dry season. To prevent high dust concentrations, the Contractor should pay attention on the air quality mitigation measures as far as practicable to minimise the dust impact to

the villages which are located adjacent to the Project works. The Contractor was also reminded to follow the Project Implementation Schedule in the approved EIA report / EM&A Manual to implement appropriate dust control measures including "watering in all works areas once per hour during working hours to control fugitive dust impact, particularly during dry weather and covering any excavated or stockpile of dusty material by impervious sheets and spraying all dusty material with water immediately prior to any loading transfer operations to keep the dusty materials wet during material handling at the stockpile areas" as well as the relevant dust control practices as stipulated in the Air Pollution Control (Construction Dust) Regulation such that no adverse dust impact would arise from the Project works.

- 12.3 The Contractor is also recommended to maintain the water quality mitigation measures if necessary according to the updated construction site drainage plan. 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 site/sediment trap. The sediment/silt traps should be incorporated in the permanent drainage channels to enhance deposition rates. Efficient silt removal facilities shall deploy to ensure all treated effluent from wastewater treatment plant shall meet the requirements as stated in WPCO licences and drainage facilities shall be not be clogged with sediment to avoid overflow during rainy season. The site drainage plan shall also be updated based on the site condition and construction programme.
- 12.4 Ecology is also one of the key environmental issues during construction of the Project. Noise pollution has a negative impact on wildlife species by reducing habitat quality. Therefore, noise mitigation measures such as using quiet plants and noise barriers should be in place, where applicable. The Contractor should properly maintain the temporary noise barriers by frequently checking and maintaining the acoustic materials wrapped on noisy part of PME and ensure no gaps between noise barriers; proactively identify any potential construction noise impact to NSRs and provide sufficient mitigation measures if necessary. Moreover, the fencing used for the site boundary and as a visual barrier during the construction phase shall also be properly maintained at 3m high and of a dull or olive green colour, in order to minimise visual impact as this fencing is to shroud the most visible human activity (movement of persons and vehicles) from adjacent wetland areas. All ecological mitigation measures recommended in the Project Implementation Schedule in EP / approved EIA report / EM&A Manual should be properly implemented and maintained as far as practicable.

Monitoring Schedule for the Next Month

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

Construction Programme for the Next Month

12.6 Tentative construction programmes are provided in **Appendix A**.

13 CONCLUSIONS AND RECOMMENDATIONS

Conclusions

13.1 The EM&A Report presents the EM&A works undertaken in October 2024 in accordance with EM&A Manual.

Air Quality

1-hour TSP Monitoring

13.2 All 1-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

24-hour TSP Monitoring

13.3 All 24-hour TSP monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

Construction Noise

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

Water Quality

13.5 All water quality monitoring was conducted as scheduled in the reporting month. No Action/Limit Level exceedance was recorded.

Ecological Monitoring

LMC Loop

Avifauna (Flight Line Survey)

13.6 Avifauna monitoring was conducted as scheduled in the reporting month. Flight lines recorded were in general concentrated mainly on LMC Meander and adjacent areas including EA Zone. It demonstrates that the large waterbirds including migratory waterbirds, Great Cormorant prefer using the flight line corridor above the LMC Meander and adjacent areas including EA Zone instead of the centre of LMC Loop.

Mammals

- 13.7 According to Clause 11.4.1.2 of the EM&A Manual, the connectivity between the reed marsh in the LMC Loop and the EA Zone has been fenced off due to other project's land occupier.
- 13.8 In addition, the 12-month establishment period of EA zone has been completed. The mammals monitoring in the Loop was therefore temporarily suspended in the reporting month and will be resumed subject to the site condition.

Western Connection Road

Avifauna (Flight Line Survey)

13.9 Avifauna monitoring was conducted as scheduled in the reporting month. Flight lines recorded were in general concentrated mainly on LMC Meander and adjacent areas including EA Zone. It demonstrates that the large waterbirds including migratory waterbirds, Great Cormorant prefer using the flight line corridor above the LMC Meander and adjacent areas including EA Zone instead of the centre of LMC Loop.

Avifauna (Pond 12)

13.10 Avifauna survey at Pond 12 was conducted as scheduled in the reporting month. Weekly count of birds using the Pond was recorded. No significant impact of construction activities on bird use of the pond was observed.

Herpetofauna

13.11 Herpetofauna survey was conducted as scheduled in the reporting month. It was observed that the shallow agricultural ponds where Chinese Bullfrog were recorded has been altered into relatively dry agricultural lands, which may have an effect on the local Chinese Bullfrog population. However, no significant impact of construction activities on this species was observed.

Aquatic fauna

13.12 Aquatic fauna survey was conducted as scheduled in the reporting month. No significant impact of construction activities on the stream was observed.

Land Contamination

- 13.13 Decontamination for five arsenic-contaminated zones (LD01 LD05) identified in LMC Loop was completed and the final Remediation Report was submitted and approved by EPD in accordance with Condition 2.16 of the EP under Contract No. YL/2017/03.
- 13.14 No work related to land contamination was conducted in the reporting month.

Environmental Site Inspection

13.15 Environmental site inspections were conducted on 2nd, 7th, 9th, 14th, 16th, 21st, 24th, 28th and 30th October 2024 by ET in the reporting month.

Environmental Complaints, Summons and Prosecutions

- 13.16 No environmental complaint was received in the reporting month.
- 13.17 No notification of summons or successful prosecution was received in the reporting month.
- 13.18 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

13.19 According to the environmental audit performed in the reporting month, the following recommendations were made:

Air Quality Impact

- To provide the dust suppression measures such as water spraying on all haul roads, exposed work site areas and dust generation works;
- To provide and maintain impervious materials to cover the stockpiles of dusty materials or erecting dust screen for the work site near public road;
- To design, establish and properly use the wheel washing facilities at the site exits;
- To pave the site exits / entrances;
- To keep maintain machinery to prevent emission of black smoke; and
- To inspect NRMM labels which should be displayed for all regulated machines.

Noise Impact

- To inspect the noise sources inside the site;
- To space out noisy equipment and position the equipment as far away as possible from sensitive receivers; and
- To provide and maintain properly temporary noise barriers or other appropriate sound reduction measures for operations of noisy equipment and breaking works near the noise sensitive receivers, if necessary.

Water Impact

- To properly deploy and check regularly the silt curtain, ensure the works area are completely surrounded, and prevent any surface runoff discharge into the old Shenzhen River meander or stream;
- To establish, review and implement temporary drainage system to appropriate collection pit and demonstrate the effectiveness of the drainage system;
- To identify any wastewater discharges from site and review the implemented water quality mitigation measure to avoid any water quality impact to the nearby sensitive receivers;
- To provide maintenance on any leaking hoses to prevent water leakage;
- To divert all the water generated from construction site to de-silting facilities with enough handling capacity before discharged, and block out erosion channel to avoid directly muddy surface runoff outside the site boundary;
- To provide and enhance the protection and bunding around the storage area for excavated materials;
- To review the capacity of de-silting facilities for discharge and update maintenance records of wastewater treatment facilities;
- To ensure the drainage facilities are probably protected and maintained;
- To maintain the cover for the exposed slope surfaces by tarpaulin or other means;
- To designate the area for wheel washing and set up the associated drainage for water from a wheel wash;
- To pave the exit points and ensure vehicles leaving the site are free from debris of dirt;
- To implement the effective water quality mitigation measures according to the site drainage plan, and review the site drainage plan measures as appropriate;
- To regularly clear any floating vegetation at the meander to ensure a good flow of water,

and floating rubbish within the silt curtain to avoid rubbish accumulation;

- To clear construction waste at the nullah; and
- To clear the deposited mud, broken bricks and debris on the public roads or near the streams.

Ecology Impact

- To maintain properly the 3m high olive-green fence around the construction site and along the works of meander bridge;
- To provide and maintain visual barrier along Ha Wan Tsuen Road, and properly erect the water-filled barriers along the site boundary in vicinity of the habitat;
- To ensure the powered mechanical equipment for construction works only during the period 9am to 5pm at and near the old Shenzhen River meander and other identified important ecologically sensitive areas, if any;
- To prevent any surface runoff discharge into the stream, further enhance and secure the existing mitigation measures so as to prevent debris and runoff from discharging into nearby nullah;
- The animal tunnel / passage should be free of obstruction and maintained to enhance its effectiveness; and
- To remove the handrails placed near the trees / vegetation or outside the site boundary.
- To properly deploy sand bag bund along the fencing for the EA Zone to avoid any gap.
- To demarcate the site boundary clearly with fencing next to the grassland and to clear all construction wastes at the grassland.

Waste/Chemical Management

- To check for any accumulation of waste materials or rubbish on site and remove them promptly;
- To provide appropriate receptacles/rubbish bins to ensure proper disposal of wastes on site:
- To avoid disposal of construction waste into the stream;
- To carry out inspection of dump trucks at site exit to ensure inert and non-inert C&D materials are properly segregated before delivering off site;
- To avoid any discharge or accidental spillage of chemical waste or oil directly from the equipment and the site;
- To clear any oil spillage in the site area;
- To maintain the drip tray well and/or provide tarpaulin sheet properly for equipment to prevent oil and chemical leakage; and
- To avoid improper handling, storage and dispose of oil drums or chemical containers on site.

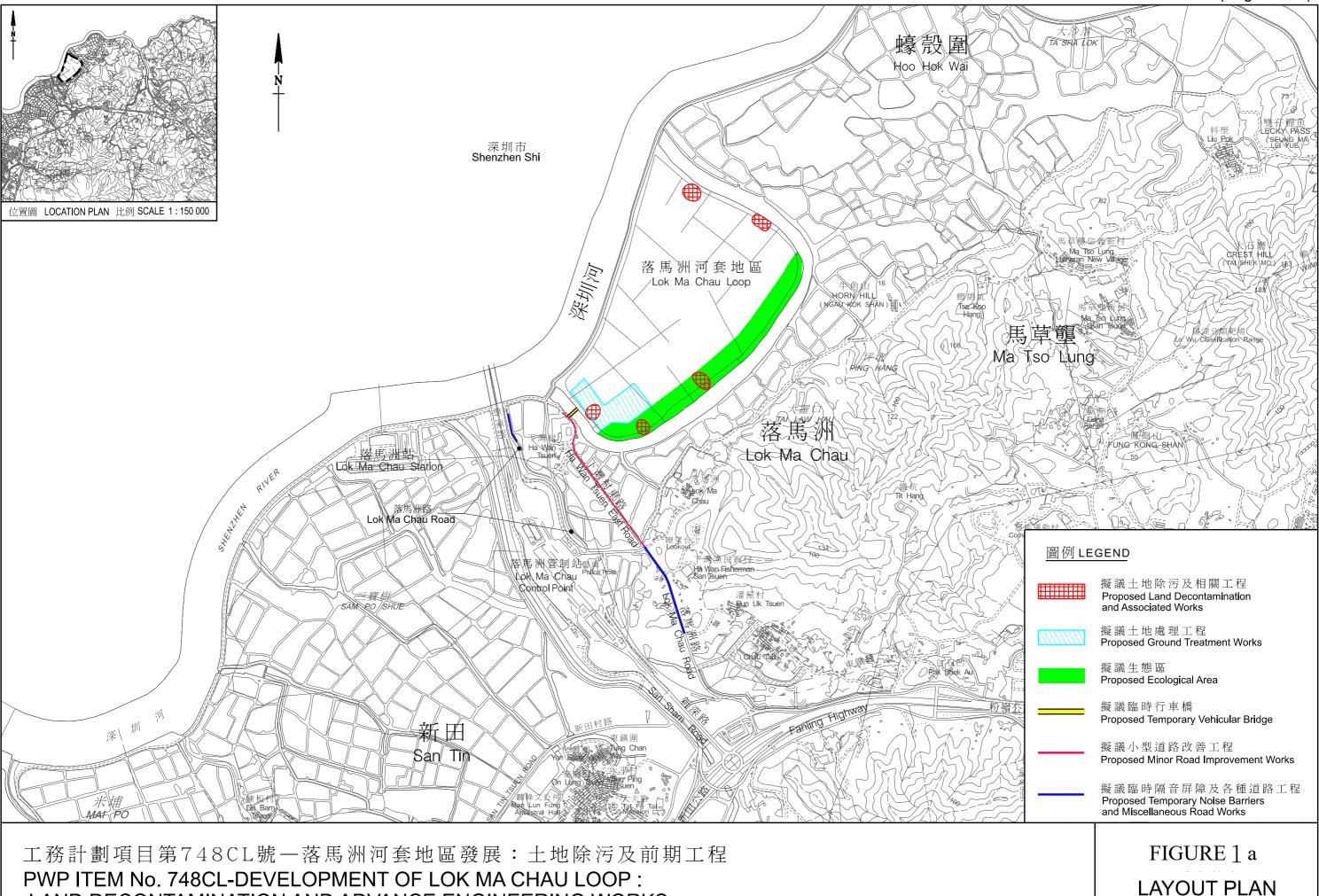
Landscape and Visual

- To erect and properly maintain the protection fencing and tree protection zone around the preserved trees; and
- To avoid placing construction materials within the tree protection zone.

Noise Impact

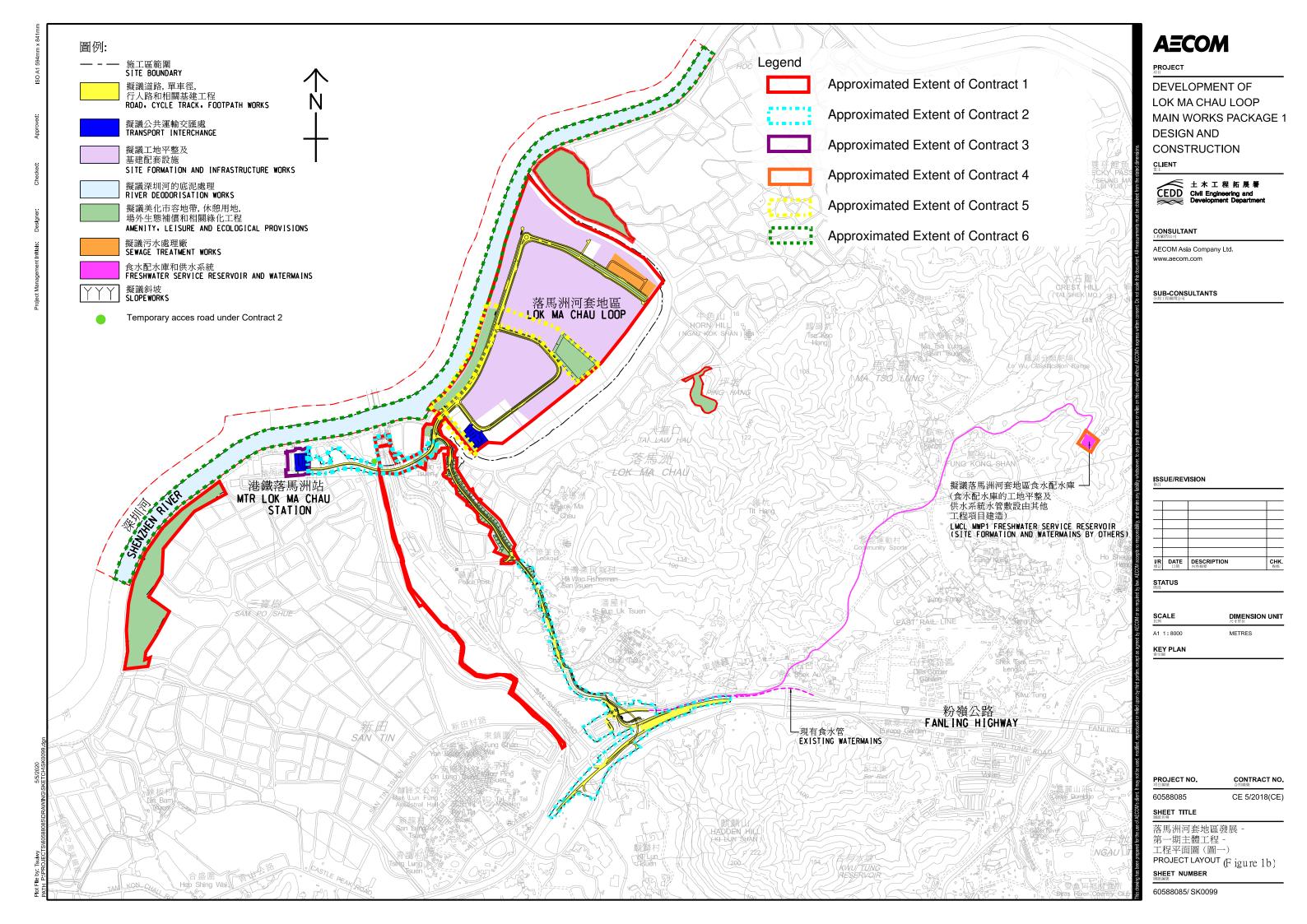
• To display updated Environmental Permits at conspicuous locations.

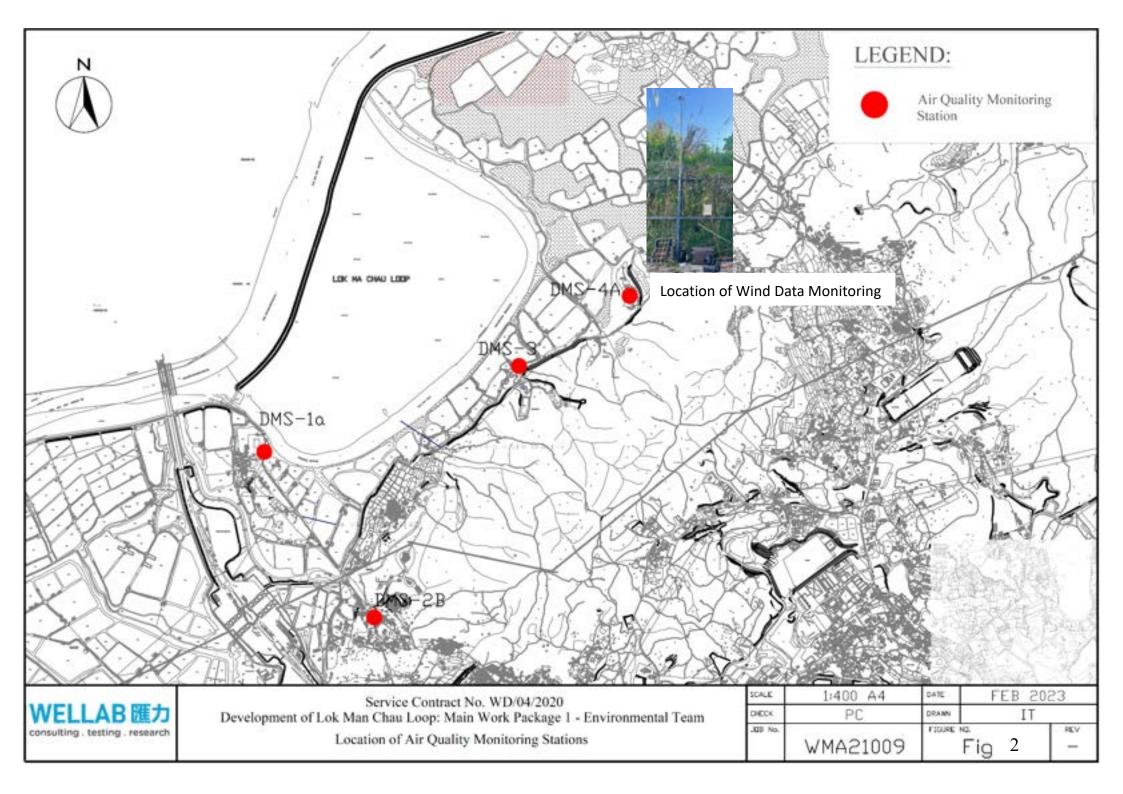
FIGURE(S)

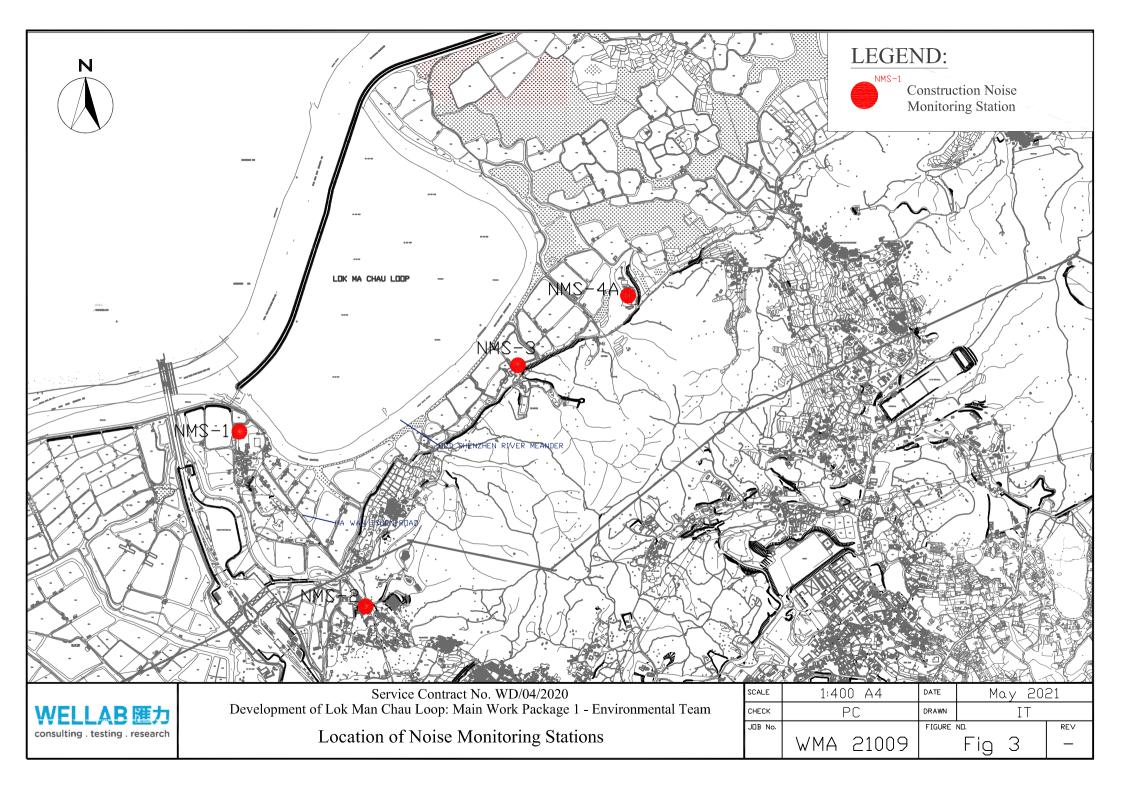


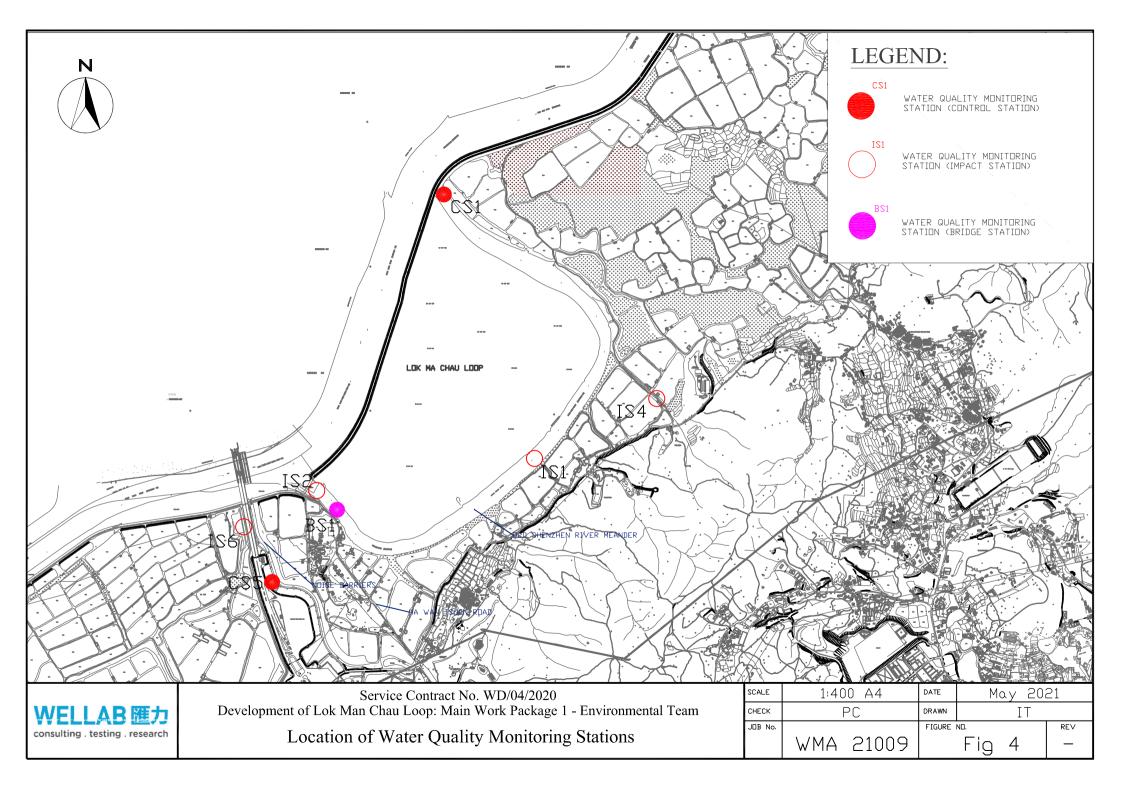
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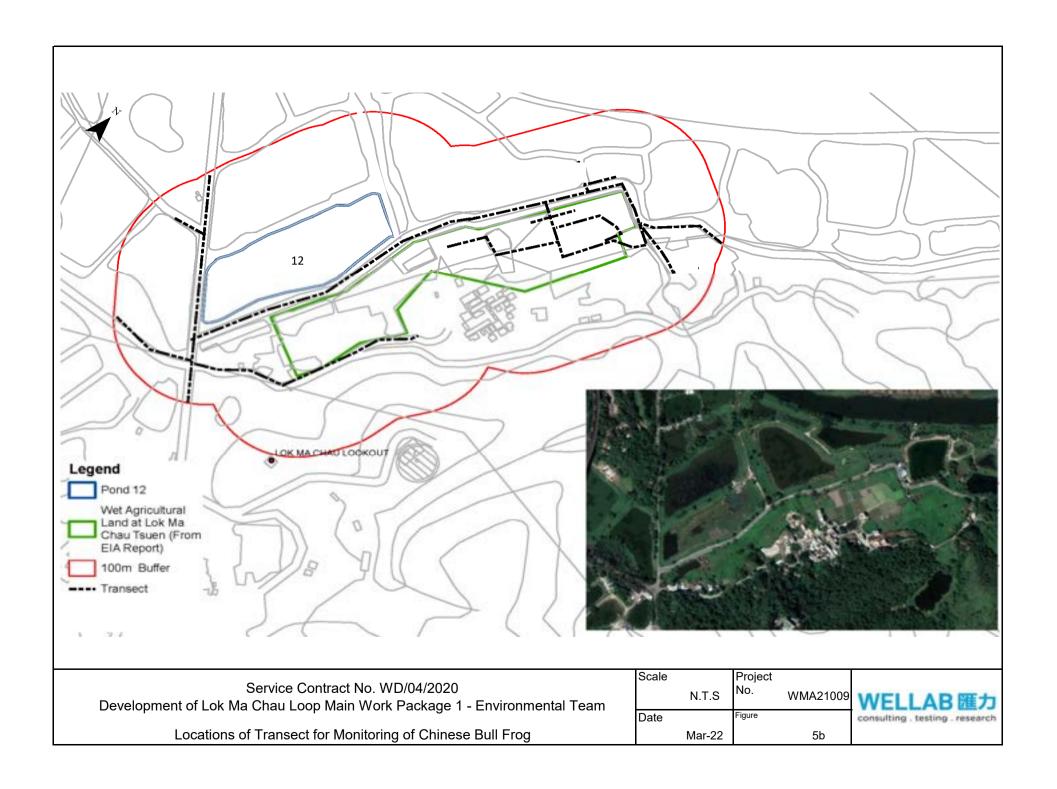
LAND DECONTAMINATION AND ADVANCE ENGINEERING WORKS

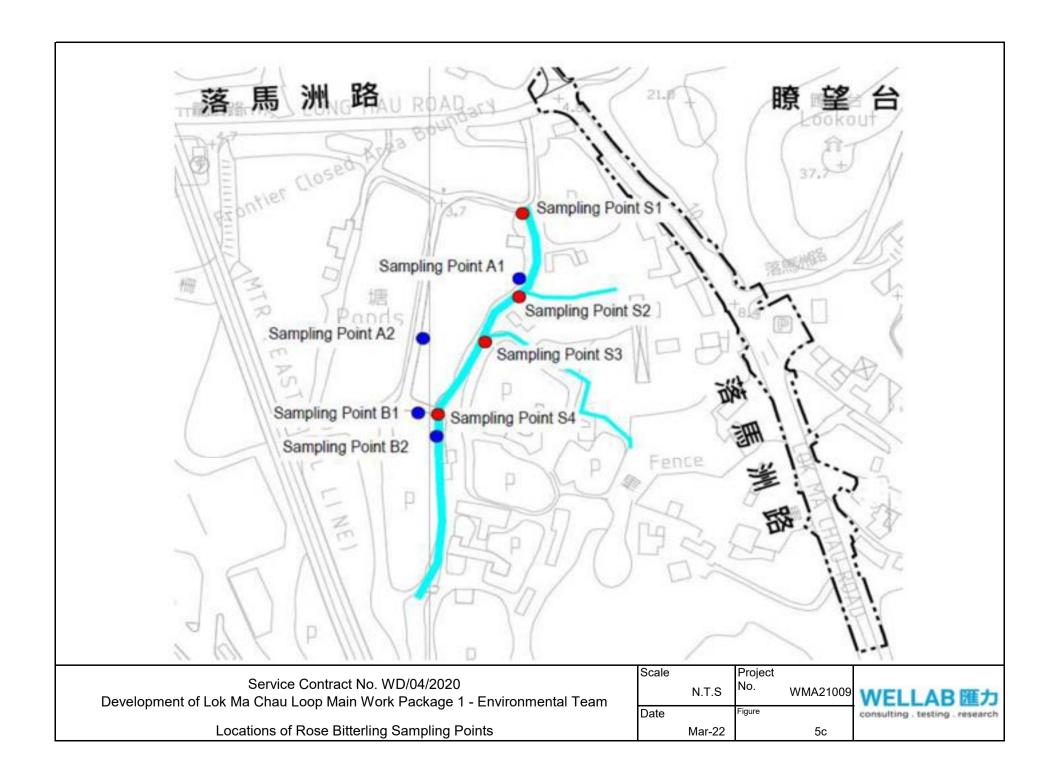


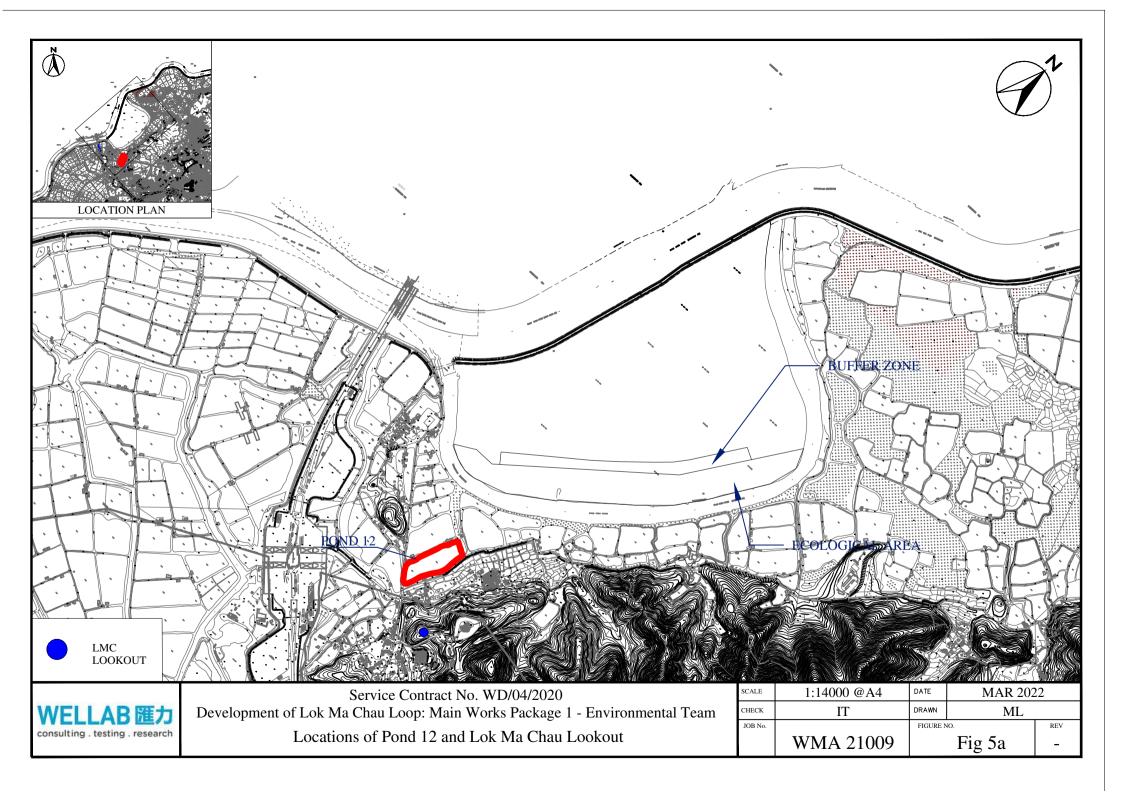


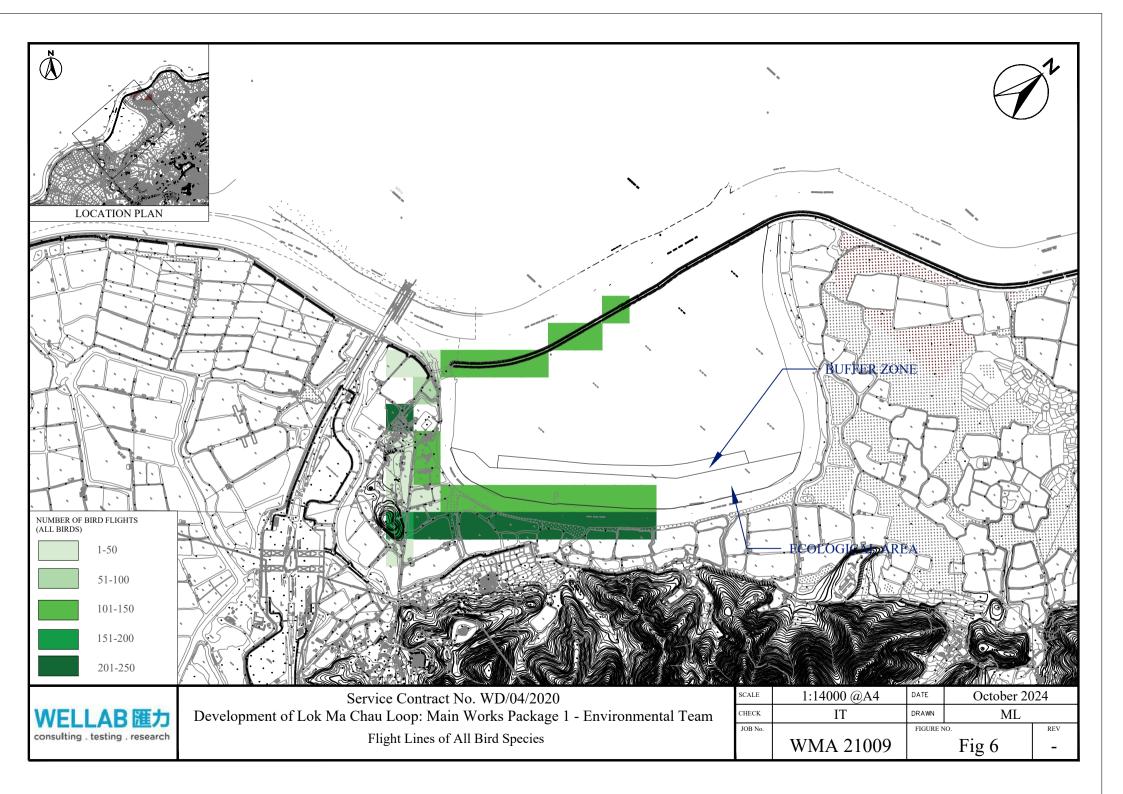












APPENDIX A CONSTRUCTION PROGRAMME

Contract No. YL/2020/01 - Development of Lok Ma Chau

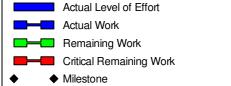
Loop: Main Works Package 1 – Contract 1 Site Formation

and Infrastructure Works inside Lok Ma Chau Loop and

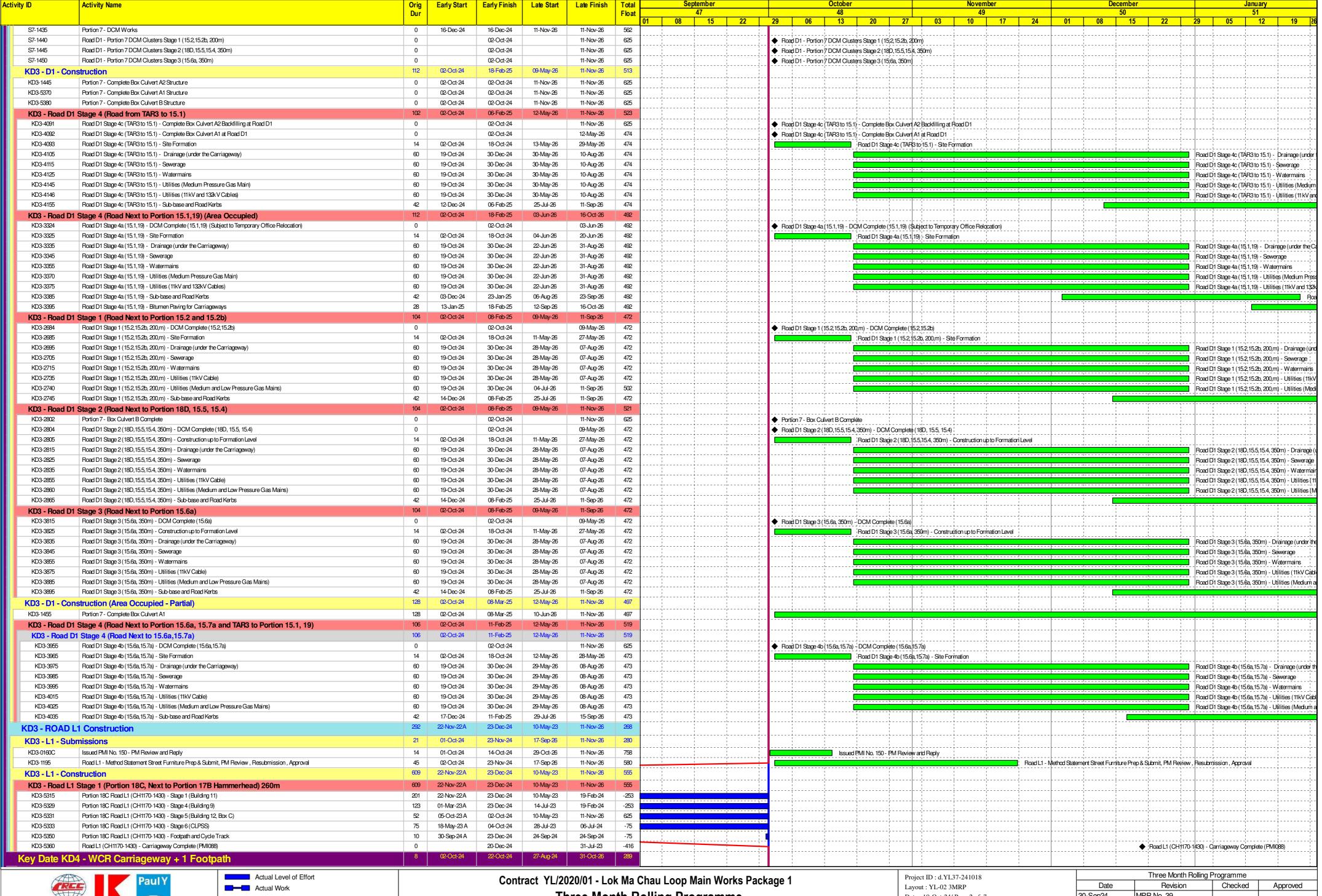
Western Connection Road Phase 1

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PKD07	KD7 (sd+890) - Complete cable draw pit+X-road ducts+haul road to CLP Ho To ESS+WCR C-way+MB	0	31-Oct-24	01-Oct-24*	31-Oct-24	21-Dec-23 31-Oct-24	-284				KD7 (sd	l+890) - Complete cabl	e draw pit+X-road du	cts+haul road to	CLP Ho To ES	S+WCR C-way	+MB		;				
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S7-710	Road and PTI - Design for Lighting System Preparation and Submission	28	07-Aug-24 A	04-Oct-24	07-Nov-26	11-Nov-26	299					Road and PTI: Design	for Lighting System P	reparation and S	Jubmission								
S7-715	Road and PTI - Design for Lighting System PM Review	21	01-Oct-24	23-Nov-24	18-Sep-26	11-Nov-26	280										Road and PTI - Des	gn for Lighting System	m PM Review				
S7-720	Road and PTI - Design for Lighting System Resultmission	14	01-Oct-24	05-Nov-24	07-Oct-26	11-Nov-26	287								Road and P	TI - Design for I	ighting System Resubmissio	n ¦					
S7-725	Road and PTI - Design for Lighting System Approval	21	01-Oct-24	23-Nov-24	18-Sep-26	11-Nov-26	280										Road and PTI - Dea	ign for Lighting Systen	m Approval				‡
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12A-102	Box Culvert A1 (Portion 18A) - Design for Temporary Works PM Review	21	18-Dec-24	14-Jan-25	25-Sep-26	22-Oct-26	522	 											Box Go	IVERTAL (FOLIOTIO	A) - Designioi		Rox Culvert A1
12A-104	Box Culvert A1 (Portion 18A) - Design for Temporary Works Resubmission	7	15-Jan-25	22-Jan-25	23-Oct-26	30-Oct-26	522														 		
12A-105	Box Culvert A1 (Portion 18A) - Design for Temporary Works Approval	10	23-Jan-25	07-Feb-25	31-Oct-26	11-Nov-26	522					 				 - -							
12C-107	Box Culvert A1 (Portion 18C) - Design for Temporary Works Preparation and Submission (Area Occupied)	14	02-Dec-24	17-Dec-24	12-Sep-26	29-Sep-26	525											+ -	Box Cı	ulvert A1 (Portion 18	C) - Design for		+
12C-108 12C-109	Box Culvert A1 (Portion 18C) - Design for Temporary Works PM Review Box Culvert A1 (Portion 18C) - Design for Temporary Works Resubmission	21	18-Dec-24 15-Jan-25	14-Jan-25 22-Jan-25	30-Sep-26 27-Oct-26	26-Oct-26 03-Nov-26	525 525												:		-	B:	3ox Culvert A1
12C-109	Box Culvert A1 (Portion 18C) - Design for Temporary Works Approval	7	23-Jan-25	04-Feb-25	04-Nov-26	11-Nov-26	525					 											
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KD6-085	Box Culvert A2 (Portion 7) - Design for Temporary Works Preparation & Submission (Area Occupied)	14	11-Nov-24*	26-Nov-24	04-Sep-26	19-Sep-26	536										Box Culvert A	2 (Portion 7) - Design	n for Temporary	/ Works Preparatio	n & Submission	(Area Occupied))
KD6-090	Box Culvert A2 (Portion 7) - Design for Temporary Works PM Review	21	27-Nov-24*	20-Dec-24	21-Sep-26	16-Oct-26	536												F	Box Culvert A2 (Port		!	+
KD6-095 KD6-100	Box Culvert A2 (Portion 7) - Design for Temporary Works Resubmission Box Culvert A2 (Portion 7) - Design for Temporary Works Approval	14	21-Dec-24* 02-Jan-25*	31-Dec-24 17-Jan-25	17-Oct-26 27-Oct-26	26-Oct-26 11-Nov-26	536 536				. -								;		Box Culvert A	42 (Portion 7) - De	
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S7-400	Box Culvert B (Portion 7) - Design for Temporary Works Preparation & Submission (Area Occupied)	14	14-Nov-24*	29-Nov-24	27-Aug-26	11-Sep-26	526					<u>-</u>					Box Cu	lvert B (Portion 7) - De	Design for Temr	orary Works Prep	ration & Submi:	ssion (Area Occu	upied)
S7-401	Box Culvert B (Portion 7) - Design for Temporary Works PM Review	21	30-Nov-24*	24-Dec-24	12-Sep-26	08-Oct-26	526													Box Culvert	B (Portion 7) -	Design for Tempo	orary Works
S7-402	Box Culvert B (Portion 7) - Design for Temporary Works Resubmission	14	27-Dec-24*	13-Jan-25	09-Oct-26	26-Oct-26	526												;			Box	x Culvert B (Po
S7-403 Retaining Wa	Box Culvert B (Portion 7) - Design for Temporary Works Approval	14	14-Jan-25* 02-Oct-24	03-Feb-25 05-Feb-25	27-Oct-26	11-Nov-26 11-Nov-26	526 524																
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KD3-900	RWMM1 - Design for Temporary Works Preparation & Submission	45	02-Oct-24	23-Nov-24	14-Jul-26	03-Sep-26	524										RWMM1 - Design		ے ا s Preparation &	Submission			
KD3-905	RWMM1 - Design for Temporary Works PM Review	21	25-Nov-24	18-Dec-24	04-Sep-26	29-Sep-26	524					! !							4	MM1 - Design for Te	emporary Work	ks PM Review	
KD3-910	RWMM1 - Design for Temporary Works Resubmission	14	19-Dec-24	07-Jan-25	30-Sep-26	16-Oct-26	524															RWMM1 - Desi	ign for Tempo
KD3-915	RWMM1 - Design for Temporary Works Approval	21	08-Jan-25	05-Feb-25	17-Oct-26	11-Nov-26	524	 				 							;		<u>-</u>		
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D3-4345	Road Diversion from TAR3 to KD3 Road D1 and L1	0		02-Oct-24		11-Nov-26	625					Diversion from TAR3 t											
D3-PC10	Contract Key Date 3 (sd+730) - Complete Road D1+Road L1 and Phase 1A Commissioning Roads	0	21-Feb-22 A	01-Oct-24 27-Jun-25	14-Sep-23	15-Jul-23	-443 195				Contract	t Key Date 3 (sd+730)	Complete Road D1-	Road L1 and Ph	nase 1A Commi	ssioning Roads			;				‡
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KD3-0900 KD3-1000	Area Occupied Road D1 - Subletting of Works for Road D1	586 an	22-Feb-22 A 02-Dec-24	30-Nov-24 08-Jan-25	06-Feb-26 08-Apr-26	07-Apr-26 13-May-26	493 394		- -						-		Area	Occupied	<u></u>			Road D1 - Sub	Metting of \^/
KD3-1005	Road D1 - Design & MS Drainage Prep & Submit(15d), PM Review(21d), Resubmission(10d), Approval(14d)	60	02-Dec-24 02-Dec-24	17-Feb-25	08-Apr-26	13-101ay-26 18-Jun-26	394				·				<u>i</u>			·				i inuquidi-Sub	achi i i Oi VV
KD3-1010	Road D1 - Design & MS Watermains Prep & Submit(15d), PM Review(21d), Resubmission(10d), Approval(14d)	60	02-Dec-24	17-Feb-25	08-Apr-26	18-Jun-26	394											·					
KD3-1015	Road D1 - Design & MS Site Formation Prep & Submit(7d), PM Review(21d), Resubmission(6d), Approval(14d)	42	02-Dec-24	22-Jan-25	08-Apr-26	28-May-26	394																
KD3-1025	Road D1 - Design & MS Irrigation System Prep & Submit(15d), PM Review(21d), Resubmission(10d), Approval(14d)	60	02-Dec-24*	17-Feb-25	20-Jun-26	29-Aug-26	454														· 		
KD3-1035	Road D1 - Material Procurement and Delivery M Works at Portion 7 (Area Occupied - Partial)	30 105	21-Feb-22 A 01-Oct-24	07-Jan-25 27-Jun-25	08-Oct-26 14-Sep-23	11-Nov-26 11-Nov-26	545 195															Road D1 - Mater	rial Procurer
KD3 - D1 - DC S7-1425	Works at Portion 7 (Area Occupied - Partial) Portion 7 - Surcharging Works	270	01-Oct-24	27-Jun-25	15-Feb-26	11-Nov-26	502					·											
S7-1425 S7-1425A	Issued PMI No. 253 - Request for Quotation - Construction of Road D1 (Part)	0	01-001-24	27-Juri-25 01-Oct-24*	151-45-20	11-1NOV-26 14-Sep-23	-382				Issued P	PMI No. 253 - Request	for Quotation - Const	ruction of Rhad F	01 (Part)			1 1				 	
S7-1426	Portion 7 - Subletting	30	02-Oct-24	06-Nov-24	27-Aug-26	02-Oct-26	562								<u></u> `£+	- Subletting			: <u>-</u>		<u>-</u>		
S7-1428	Portion 7 - Site Preparation	8	07-Nov-24	15-Nov-24	03-Oct-26	12-Oct-26	562	 				 				Portion	7 - Site Preparation						
	Portion 7 - Commencement of DCM Works	0	16-Nov-24		13-Oct-26		562		1	 						◆ Portion	n 7 - Commencement of DC	M Works		7			
S7-1430 S7-1432	Portion 7 - Establishment of Silos	25	16-Nov-24	14-Dec-24	13-Oct-26	11-Nov-26	562	1	1.0			1	1		1					stablishment of Silos		1	1

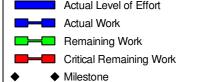




	Three Month Rolling F	Programme	
Date	Revision	Checked	Approved
30-Sep24	MPR No. 39		



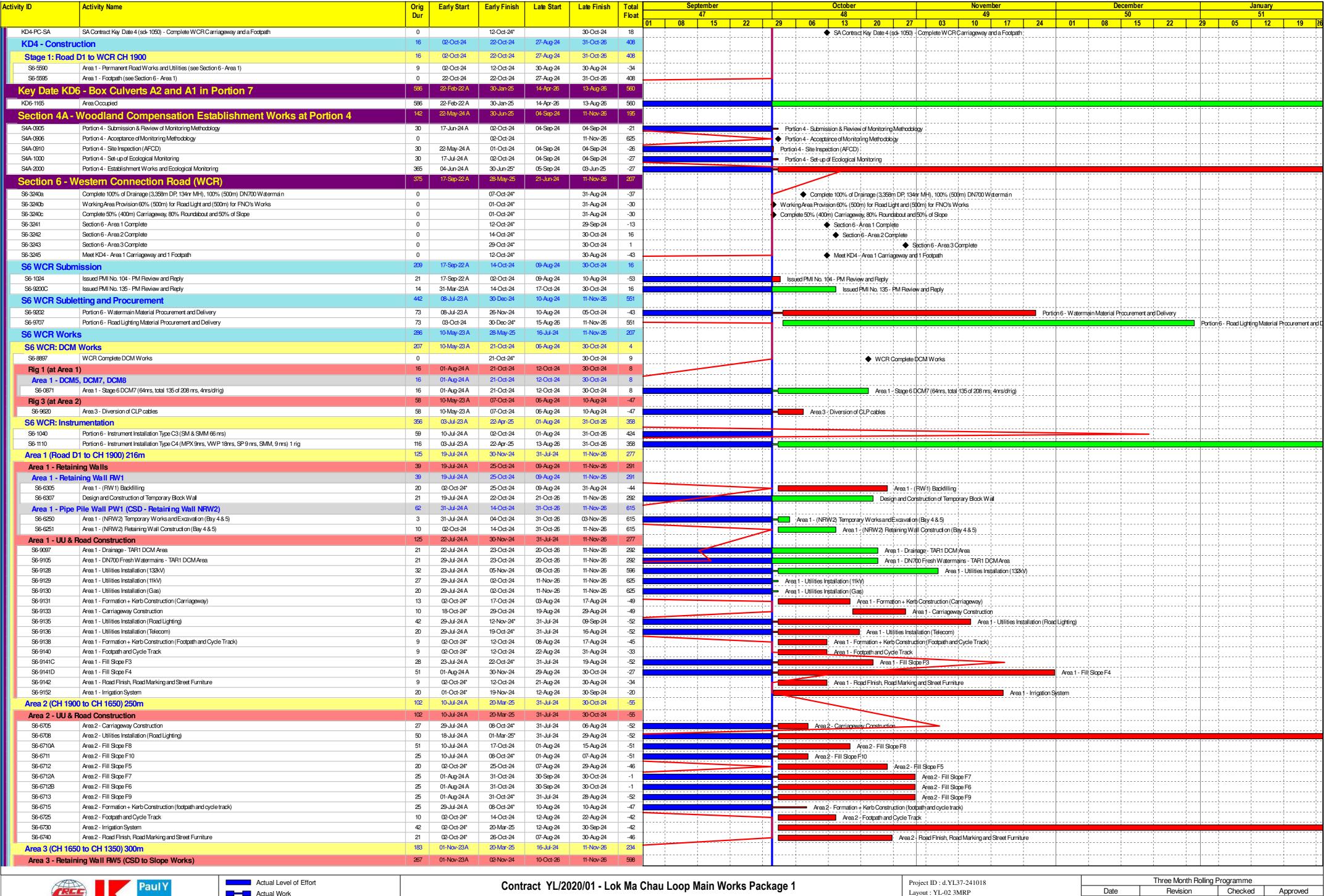




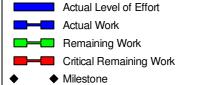
Three Month Rolling Programme

Date: 19-Oct-24/ Page 2 of 7

	Three Month Rolling F	rogramme	
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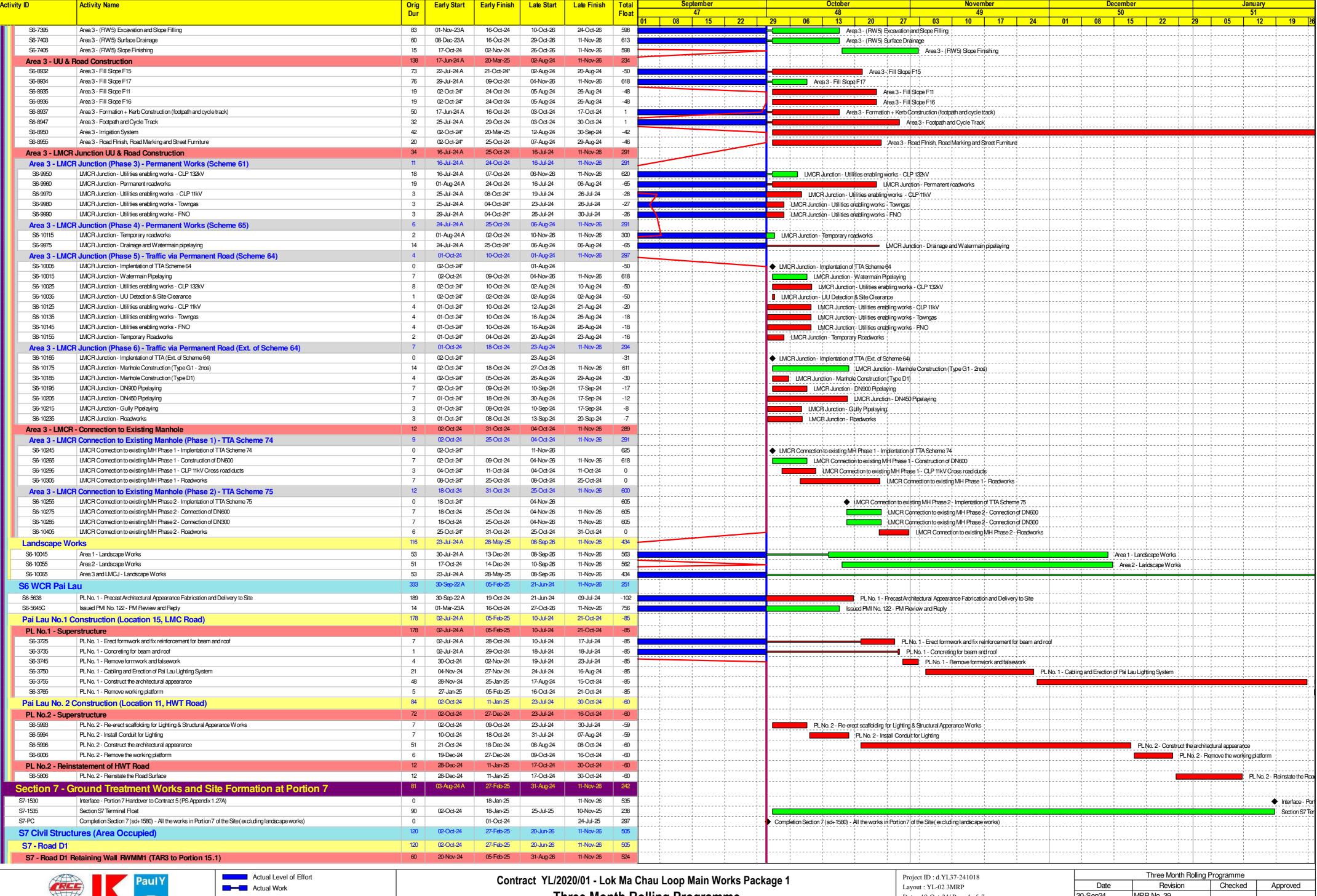




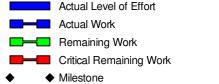
Three Month Rolling Programme

Date: 19-Oct-24/ Page 3 of 7

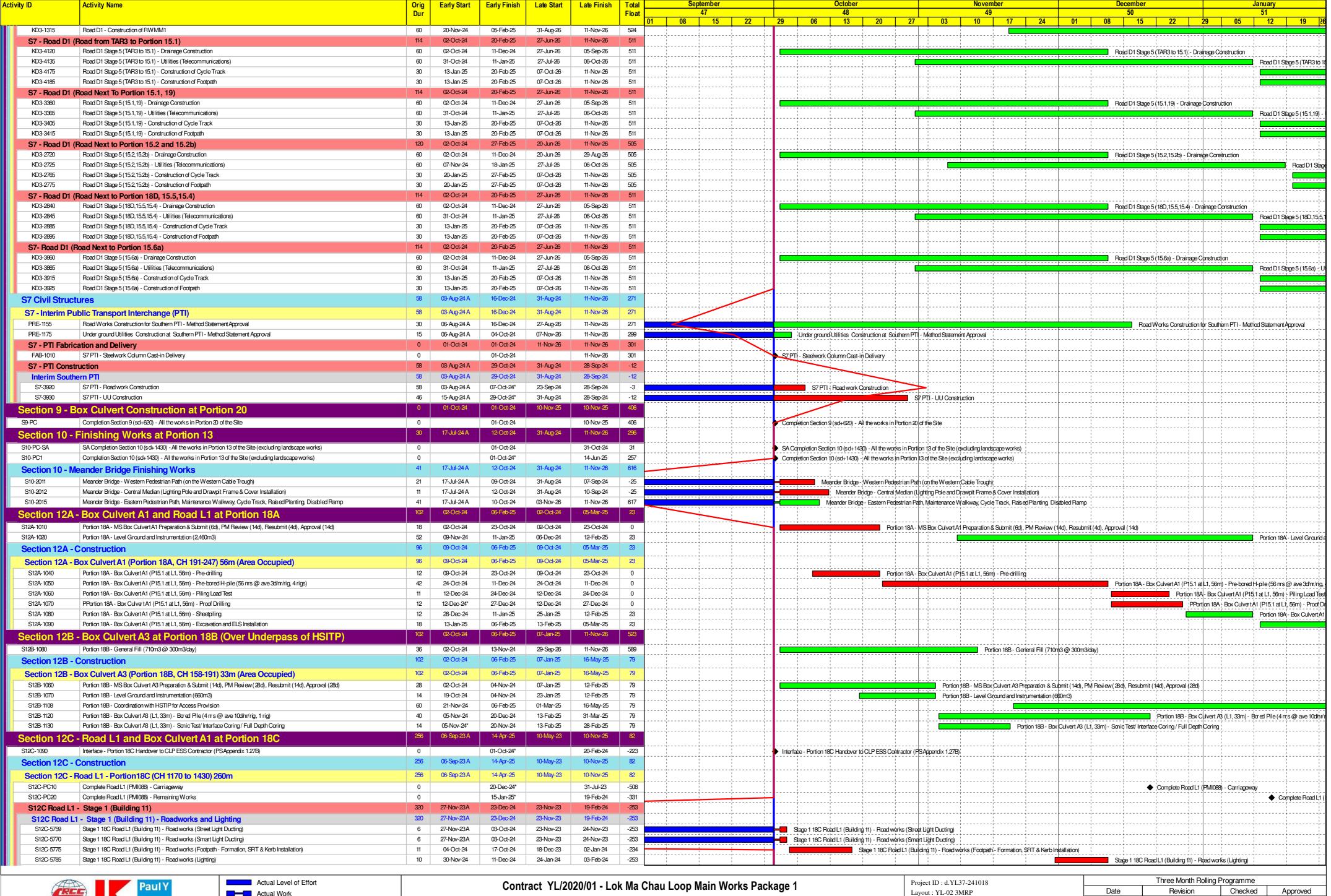
	Three Month Rolling F	Programme	
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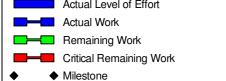




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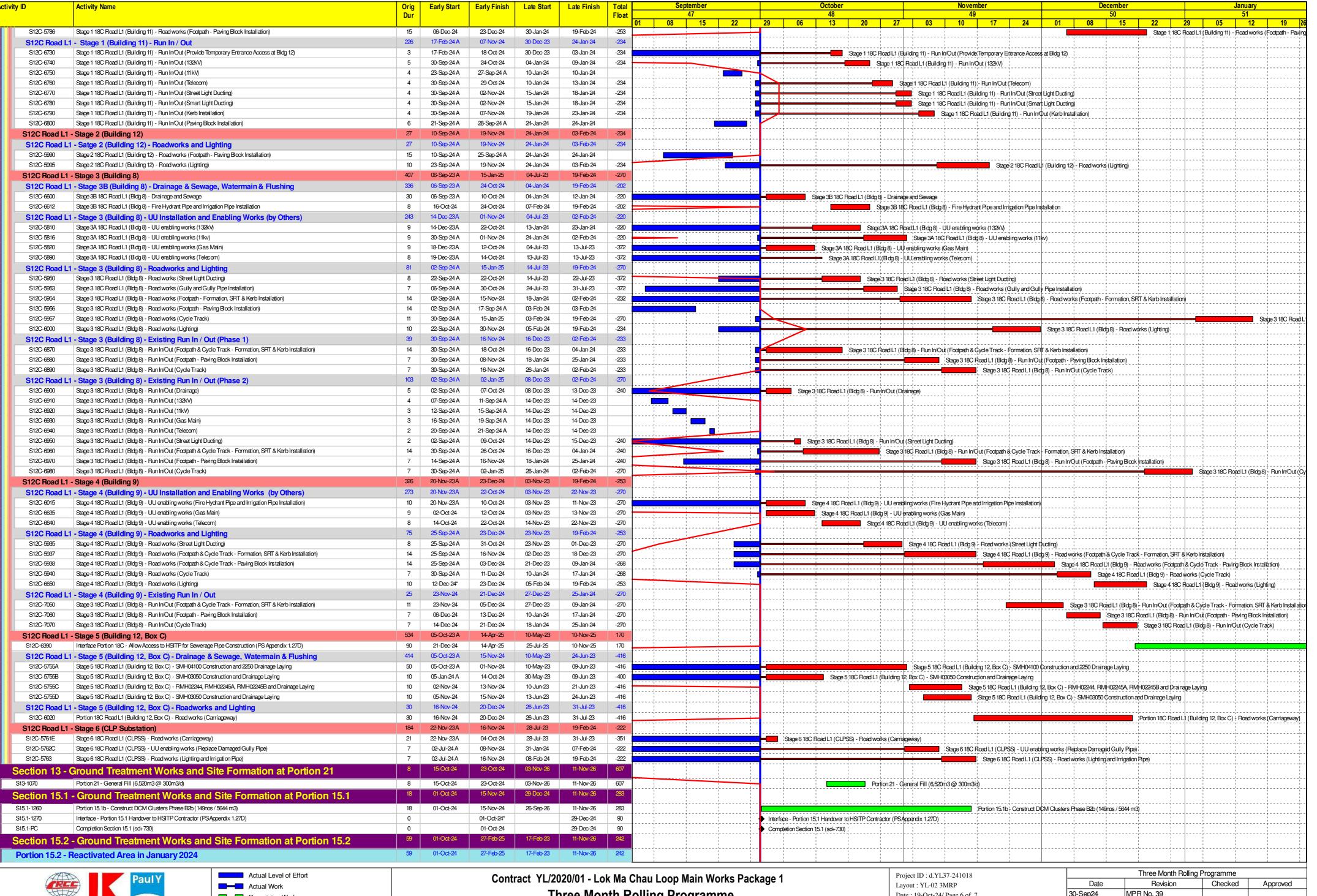




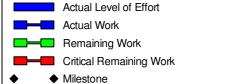
Three Month Rolling Programme

Date: 19-Oct-24/ Page 5 of 7

	i nree ivionth Rolling F	rogramme	
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30-Sep24	MPR No. 39		



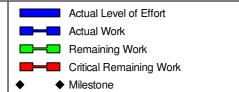




	Three Month Rolling F	Programme	
Date	Revision	Checked	Approved
0-Sep24	MPR No. 39		

ctivity ID	Activity Name	Orig	Early Start	Early Finish	Late Start	Late Finish	Tota	al	Septe	ember			00	ctober				November				Decemb	er			January	
•		Dur		1			Floa		4					48				49				50				51	
-									08	15	22	29	06	13	20			10		24	1 08	1	15 22	2 2	29 0	12	19
S15.1-1150	Portion 15.2 - Set up DCM Rig & Mixer Plant	12	01-Oct-24	31-Oct-24	12-Oct-26	11-Nov-26	289									Portio	on 15.2 - Set	up DCM Rig & Mi	ixer Plant			<u>.</u>			<u>.</u>		
S15.1-1160	Portion 15.2 - Construct DCM Clusters	30	01-Oct-24	16-Dec-24	27-Aug-26	11-Nov-26	271																Portion 15.2 - C		M Clusters		
S15.1-1170	Portion 15.2 - Granular Fill	4	01-Oct-24	10-Oct-24	02-Nov-26	11-Nov-26	297						Portion	n 15.2 - Gra	nular Fill												
S15.2-1140	Portion 15.2 - PVD Installation (993,000m @ 3,000m/day/rig - 4 rigs)	74	02-Oct-24	30-Dec-24	14-Aug-26	11-Nov-26	551																		Portion 15.2 - F	VD Installation (99	3,000m @ 3,000
S15.2-1380	Portion 15.2 - Stockpile Re-use of Material (PS 1.129 (2l)) (200,000 m3 @ 1,800m3/d)	120	02-Oct-24	27-Feb-25	17-Feb-23	15-Jul-23	-481																				
Section 16	Works Not Covered by Other Sections of the Works (Area Occupied)	24	22-Jul-24 A	03-Oct-24	31-Aug-24	12-Nov-26	300																				
Site Office a	nd Innohub	5	09-Sep-24 A	12-Sep-24 A	12-Nov-26	12-Nov-26							 				! !										
PM Site Office	e, Innohub, Reception & Atrium	5	09-Sep-24 A	12-Sep-24 A	12-Nov-26	12-Nov-26																		1		1	
Innohub othe	r works	5	09-Sep-24 A	12-Sep-24 A	12-Nov-26	12-Nov-26												!									1
SO-0050	Innohub - Protective barrier Installation	5	09-Sep-24 A	12-Sep-24 A	12-Nov-26	12-Nov-26											·	!			!						1 1
S16 Portion	3 of the Site - Meander Bridge	30	22-Jul-24 A	03-Oct-24	31-Aug-24	02-Sep-24	-25																			: :	· · · · · · · · · · · · · · · · · · ·
S10-2014	Meander Bridge - Landscape	30	22-Jul-24 A	03-Oct-24*	31-Aug-24	02-Sep-24	-25				i	- Meand	er Bridge - La	andscape ;			·		;		 						· · · · · · · · · · · · · · · · · · ·
Section 17	Establishment Works Not Covered by Other Sections of the Works (Ar	365	01-Oct-24	30-Sep-25	12-Nov-25	11-Nov-26	407				!						 									1	1 1
S17-1000	Establishment Works not covered by other section fo the works	365	01-Oct-24	30-Sep-25	12-Nov-25	11-Nov-26	407																				
Executive S	Summary	1176	15-Jul-21 A	13-Oct-25	29-Oct-21	11-Nov-26	320			 																1	
ESUM-100	Subletting and Preparation	210	15-Jul-21 A	02-Oct-24	17-Jul-23	11-Nov-26	625		i -		i	-					·		j					!	 -		-
ESUM-110	Design Submissions	210	26-Jul-21 A	02-Oct-24	11-Nov-26	11-Nov-26	625							:					- 1				į	i			1
ESUM-135	Woodland Establishment Works	295	04-Jun-24 A	30-Jun-25	05-Sep-24	03-Jun-25	-23																 !				1
ESUM-150	Western Road Connection (WCR)	801	28-Oct-21 A	20-Mar-25	29-Oct-21	30-Oct-24	-114											:			!						1
ESUM-160	Road L1 Construction	607	01-Aug-22 A	15-Jan-25	10-May-23	19-Feb-24	-270)																			! !
ESUM-185	Box Culvert AConstruction at Portion 7	0	02-Oct-24	02-Oct-24	11-Nov-26	11-Nov-26	625			1																	· · · · · · · · · · · · · · · · · · ·
ESUM-190	Box Culvert AConstruction at Portion 12A-12C	291	19-Oct-24	13-Oct-25	06-Dec-24	10-Nov-25	23							:			1							!			1
Ground Trea	ment and Site Formation	498	20-Oct-21 A	27-Feb-25	28-Dec-24	11-Nov-26	505										-										
ESUM-GT07	S07 - Ground Treatment and Site Formation at Portion 7	414	20-Oct-21 A	02-Oct-24	11-Nov-26	11-Nov-26	625																				- T
ESUM-GT15.1	S15.1 - Ground Treatment and Site Formation at Portion 15.1	434	02-Nov-21 A	02-Oct-24	28-Dec-24	28-Dec-24	73						1	1	1		- 1		1		-	1	-	1			
ESUM-GT15.2	S15.2 - Ground Treatment and Site Formation at Portion 15.2	413	31-Jan-22 A	27-Feb-25	28-Dec-24	28-Dec-24	-47										·										





	Three Month Rolling F	rogramme	
Date	Revision	Checked	Approved
30-Sep24	MPR No. 39		

Contract No. YL/2020/02 – Development of Lok Ma Chau
Loop: Main Works Package 1 – Contract 2 Western
Connection Road Phase 2, Connection Roads to Fanling /
San Tin Highway and Direct Road Link Phase 1

Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling/San Tin Highway and Direct Road Link Phase 1

Activity ID	Activity Name	AtCompletion Start	Finish	Late Start	Late Finish	Total Float	2024 2025 Odober November December January February
		Duration					22 29 06 13 20 27 03 10 17 24 01 08 15 22 29 05 12 19 26 02 09
	n Road Phase 2, Connection Roads to Fanling/San Tin Highway and DRL Phase 1 (MM)	699 13-May-23 A	05-Aug-25	13-Jun-24		405	
Key Date and Section		103 31-Aug-24 A		02-Aug-24		593	
Planned Achievem		0 27-Nov-24		02-Aug-24		-117	
KDD1060	KD 3 -Complete the laying of permanent water main along Lok Ma Chou Road including the connection to/along Castle	0	27-Nov-24*		02-Aug-24	-117	
<u> </u>	red Date for Section of the Works	0 08-Oct-24	08-Oct-24	15-Sep-24		-22	
SEW1015	Section 2B- Comprises the works at Junction of Castle Peak Road and Lok Ma Chau Road within Portion 10 of the Site	0	08-Oct-24*		15-Sep-24	-22	Section 2B- Comprises the works at Junction of Castle Peak Road and Lok Ma Chau Road within Po
<u> </u>	ent Date for Section of the Works (Compared to Contract Completion Days)	39 13-Nov-24	28-Dec-24	14-Sep-24		593	
SEW1070	Section 2A- Comprises the works at Lok Ma Chau Road within Portion 1,5 and 8 of the Site	0	13-Nov-24		25-Sep-24	-42	
SEW1075	Section 2B- Comprises the works at Junction of Castle Peak Road and Lok Ma Chau Road within Portion 10 of the Site	0	22-Nov-24		14-Sep-24	-59	
SEW1080	Section 2C- Comprises substructures and piling works of ST01 and CTFB within Portion 1,5,7 and 10 of the Site	0	28-Dec-24		20-Nov-26	593	◆ Section 2C- Comprises substructures
Estimated Extende	ed Completion Dates due to CE or IW (Compared to EOT Estimated Completion Days)	51 05-Sep-24 A	25-Oct-24	08-Sep-24	25-Sep-24	-30	
ECD100110	Section 2A- Comprises the works at Lok Ma Chau Road within Portion 1,5 and 8 of the Site	0	08-Oct-24*		25-Sep-24	-12	
ECD100120	Section 2B- Comprises the works at Junction of Castle Peak Road and Lok Ma Chau Road within Portion 10 of the Site	0	08-Oct-24*		22-Sep-24	-15	Section 2B- Comprises the works at Junction of Castle Peak Road and Lok Ma Chau Road within Po
EOT Days due to	Inclement Weather from Mar to Sep 2023	0 08-Oct-24	08-Oct-24	15-Sep-24	15-Sep-24	-22	
EOT.100120	Section 2B - Castle Peak Road Junction	0 08-Oct-24*	08-Oct-24	15-Sep-24	15-Sep-24	-22	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
EOT Days due to	Inclement Weather from Jul to Nov 2022	51 05-Sep-24 A	25-Oct-24	08-Sep-24	25-Sep-24	-30	
EOT.200120	Section 2B - Castle Peak Road Junction	7 08-Oct-24	14-Oct-24	16-Sep-24	22-Sep-24	-22	Section 2B - Castle Peak Road Junction
EOT.200110	Section 2A - LMC Road All Works	51 05-Sep-24 A	25-Oct-24	08-Sep-24	25-Sep-24	-30	Section 2A - LMC Road All Works
Comparison of Ext	tended Completion Dates and Planned Completion Dates	120 31-Aug-24 A	28-Dec-24	02-Aug-24	20-Nov-26	692	
CD.100110	Section 2A - LMC Road All Works	37 08-Oct-24	13-Nov-24	25-Sep-24	25-Sep-24	-49	l i l i i i i i i i i i i i i i i i i i
CD.100120	Section 2B - Castle Peak Road Junction	46 08-Oct-24	22-Nov-24	14-Sep-24	14-Sep-24	-69	Section 2B - Castle Peak Road Junction
CD.100170	Key Date - KD3 DN700 at LMC Road	88 01-Sep-24 A	27-Nov-24	02-Aug-24	02-Aug-24	-117	
CD.100130	Section 2C - ST01 & CTFB Bridge Substructure	120 31-Aug-24 A	28-Dec-24	31-Aug-24	20-Nov-26	692	Section 2C - ST01 & CTFB Bridge Sul
General Submissio	n,Preliminaries, Contractor's Design,Method Statement Submission and Approval	699 13-May-23 A	05-Aug-25	23-Dec-24	20-Nov-26	405	
Contractor's Desig	n Submission and Approval	480 13-May-23 A	22-Nov-24	12-Apr-25	20-Nov-26	624	
Major Permanent	Works Design	480 13-May-23 A	22-Nov-24	17-May-25	20-Nov-26	624	
MPW 1095	Submission for glass balustrades	456 13-May-23 A	25-Oct-24	17-May-25	04-Jun-25	190	Submission for glass balustrades
MPW 1095-10	Acceptance of glass balustrades	24 26-Oct-24	22-Nov-24	24-Oct-26	20-Nov-26	624	Acceptance of glass balustrades
Major Temporary	Works Design	14 08-Oct-24	23-Oct-24	12-Apr-25	28-Jun-25	213	
MTW 1185	ELS design for construction of Retaining Wall RW12	14 08-Oct-24	23-Oct-24	12-Apr-25	28-Apr-25	160	ELS design for construction of Retaining Wall RW12
MTW 1195	ELS design for construction of Retaining Wall RW13	14 08-Oct-24	23-Oct-24	24-Apr-25	-	170	ELS design for construction of Retaining Wall RW13
MTW 1205	ELS design for construction of Retaining Wall RW14	14 08-Oct-24	23-Oct-24	24-May-25	09-Jun-25	196	ELS design for construction of Retaining Wall RW14
MTW 1215	ELS design for construction of Retaining Wall RW7	14 08-Oct-24	23-Oct-24	13-Jun-25	28-Jun-25	213	ELS design for construction of Retaining Wall RW7
	Submission and Approval for Major Construction Works	14 24-Oct-24	08-Nov-24	1		209	
MSS1380	Method Statement submission & approval for Construction of Retaining Wall - RW12	14 24-Oct-24	_	29-Apr-25	-	160	
MSS1390	Method Statement submission & approval for Construction of Retaining Wall - RW13	14 24-Oct-24	08-Nov-24	-	26-May-25	170	
MSS1400	Method Statement submission & approval for Construction of Retaining Wall - RW14	14 24-Oct-24		10-Jun-25		196	, , , , , , , , , , , , , , , , , , ,
MSS1410	Method Statement submission & approval for Construction of Retaining Wall - RW7	14 24-Oct-24		25-Jun-25		209	
Prefabrication of P		456 21-Feb-24 A		23-Dec-24		405	•
FPS1030	Fabrication of precast segments of DRL-Bridge	218 21-Feb-24 A		28-Oct-26		643	Tablication of process, cognistic of DTC Dirego
FPS1020	Fabrication of precast segments of CTFB-Bridge	90 08-Oct-24*		23-Dec-24	•	65	· sizirodion or process
	f covered walkway steelworks for Staircases and footbridge	293 09-Aug-24 A		11-Apr-25		151	
FCW1000	Fabrication of steelwork, steel canopy and roofing system	293 09-Aug-24 A		<u> </u>	04-Feb-26	151	
	orks- Completion of the Works within Portion 1,2A,2B,3,5,7,8,9&10 of the Site	385 22-Nov-23 A				554	
Superstructure for	-	83 08-Oct-24	11-Jan-25	16-Oct-24		91	
Construction of P		79 08-Oct-24	07-Jan-25		06-Jan-25	-1	
Construction of F	Pierhead Segment at Pier ST01-P02	14 08-Oct-24	23-Oct-24	21-Nov-24	06-Dec-24	38	
	Thre	ee Months Rolling Pr	ogramme	(Data D	ate : 08-0)ct-24)	Primary Baseline 3 Months Rolling Programme
		9	0	•		1)	Actual Work Date Revision Checked Approved
(-))	斯展署 中國路標工程有限責任公司	Period: 08-C			125		Remaining Work 08-Jan-23 Rev.2.1k DL RP/RS
	CHINA ROAD AND BRIDGE CORPORATION	Pa	ge : 1 of 10	6			Cotting Damaining Work
Develo	pment Department						14-Dec-23 Rev.3.00 SLX RP/RS
							◆ Milestone 27-May-24 Rev.3.0e SLX RP/RS

Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling/San Tin Highway and Direct Road Link Phase 1

Activity ID	Activity Name	AtCompletion Start Duration	Finish	Late Start	Late Finish	Total Float		2024 2025 October November December January February
S010430	Diaphragm Construction (2nd Cast) pending for Designer's Modification to meet HyD's headroom	14 08-Oct-24*	23-Oct-24	21-Nov-24	06-Dec-24	38	29 (06 13 20 27 03 10 17 24 01 08 15 22 29 05 12 19 26 02 09 Diaphragm Construction (2nd Cast) pending for Designer's Modification to meet HyD's
Construction of	standard Pierhead Segment at Pier ST01-P07 (based on Contractor's proposed design)	49 12-Nov-24	07-Jan-25	24-Oct-24	19-Dec-24	-16		
S60280	Implement TTA for Pierhead Construction Works	1 12-Nov-24		24-Oct-24		-16		Implement TTA for Pierhead Construction Works
S60290	Installation of falsework / Temporary Platform and Bearing	5 13-Nov-24		25-Oct-24		-16	÷	Installation of falsework / Temporary Platform and Bearing
S60300	Erection of Pierhead Segment (SP7DU1)	12 19-Nov-24	02-Dec-24	31-Oct-24		-16		Erection of Pierhead Segment (SP7DU1)
S60310	Concreting Spacer	14 03-Dec-24	18-Dec-24	14-Nov-24		-16		Concreting Spacer
S60320	Nailing Down Tendons	7 19-Dec-24	26-Dec-24	30-Nov-24		-16		Nailing Down Tendons
S60380	Curing and Formwork Dismantle for temporary joint at Tier ST01-P07	10 27-Dec-24	07-Jan-25			-16		Curing and Formwork Disn
	Pierhead Segment at Pier ST01-P01	15 21-Dec-24	07-Jan-25	16-Dec-24		-5	ļ	Culling and Formwork Distr
S011325	Implement TTA for Pierhead Segment at ST01-P01	1 21-Dec-24	21-Dec-24	16-Dec-24		-5		Implement TTA for Pierhead Segment at
S011315	Installation of falsework / Temporary Platform System	14 23-Dec-24	07-Jan-25	17-Dec-24		-5		
	Pierhead Segment at Pier ST01-P08	18 27-Nov-24	17-Dec-24	17-Dec-24		17		Installation of falsework / Te
S011400	Implement TTA	1 27-Nov-24*	27-Nov-24	17-Dec-24		17		
S011335	Installation of falsework / Temporary Platform System	5 28-Nov-24	03-Dec-24		23-Dec-24	17	÷	Implement TTA
S011333	Erection of Pierhead Segment (SP8DU0)	12 04-Dec-24	17-Dec-24	24-Dec-24		17		Installation of falsework / Temporary Platform System
						17		Erection of Pierhead Segment (SP8DU0)
	Pierhead Segment at Pier ST01-P09	36 27-Nov-24	07-Jan-25	23-Nov-24		-3		
S011365	Implement TTA	1 27-Nov-24*	27-Nov-24	23-Nov-24		-3		I Implement TTA
S011355	Installation of falsework / Temporary Platform System	16 28-Nov-24	16-Dec-24	25-Nov-24		-3	<u> </u>	Installation of falsework / Temporary Platforn
S011360	Installation of precast shell segment, formwork and fixing of the rebar	18 17-Dec-24	06-Jan-25	13-Dec-24		-3		Installation of precast shell s
S011370	Cast In-situ Pierhead Segment Infill at Pier ST01-P09	1 07-Jan-25	07-Jan-25	03-Jan-25		-3		▮ Cast In-situ Pierhead Segm
	an and End Span Segments	65 08-Oct-24	21-Dec-24		28-Apr-25	109		
	ast Segments and Preparation Works	0 08-Oct-24	08-Oct-24	16-Oct-24		61		
	sembly of Precast Segments on Site Yard	0 08-Oct-24	08-Oct-24	16-Oct-24		61	ļ	
S01.SA.110	Delivery on Site - Precast Segments B01-P01 (FF/C)	0	08-Oct-24*		16-Oct-24	8		Delivery on Site - Precast Segments B01-P01 (FF/C)
S01.SA.140	Delivery on Site - Precast Segments P08 (BC)	0	08-Oct-24*		17-Dec-24	61	i	Delivery on Site - Precast Segments P08 (BC)
S01.SA.150	Delivery on Site - Precast Segments P09 (BC)	0	08-Oct-24*		20-Nov-24	38		Delivery on Site - Precast Segments P09 (BC)
Bridge ST01-A		33 14-Nov-24	21-Dec-24	28-Dec-24	28-Apr-25	109		
Erection of Full	Span Deck at Pier ST01-P01 to ST01-P02	33 14-Nov-24	21-Dec-24	28-Dec-24	04-Feb-25	38		
Full Span Prep	aration	33 14-Nov-24	21-Dec-24	28-Dec-24	04-Feb-25	38		
S01.SA.50	Delivery on Site - Precast Segments P01-P02 (FS)	0	28-Nov-24		11-Jan-25	38		◆ Delivery on Site - Precast Segments P01-P02 (FS)
S01.SA.170	Assembly Platform Erection for P01-P02 (FS)	13 14-Nov-24	28-Nov-24	28-Dec-24	11-Jan-25	38		Assembly Platform Erection for P01-P02 (FS)
S01.SA.60	Assembly of Full Span Deck P01-P02	13 29-Nov-24	13-Dec-24	13-Jan-25	27-Jan-25	38		Assembly of Full Span Deck P01-P02
S011775	Hanger Beam	7 14-Dec-24	21-Dec-24	28-Jan-25	04-Feb-25	38		Hanger Beam
Erection of End	-Span on Support at Abutment B01	1 03-Dec-24	03-Dec-24	28-Apr-25	28-Apr-25	125	1	
S011805	Implementation of TTA for End-Span Erection at Abutment B01 Mid	1 03-Dec-24	03-Dec-24	28-Apr-25	28-Apr-25	125		, Implementation of TTA for End-Span Erection at Abutn
Bridge ST01-B		13 08-Oct-24	22-Oct-24	06-Dec-24		51		1
	se Balance Cantilever End-Span at Pier ST01-P06	13 08-Oct-24	22-Oct-24	06-Dec-24	20-Dec-24	51		
S60200	Erection of false balance cantilever precast segments at Pier ST01-P06 + stressing & Grouting (6 segments)	13 08-Oct-24	22-Oct-24	06-Dec-24		51		Erection of false balance cantilever precast segments at Pier ST01-P06 + stressing & 0
Erection of Sean	nents on Site and Deck Over Structure (ST01-AP03)	35 03-Dec-24	11-Jan-25	03-Dec-24	11-Jan-25	0	†	
S012290	Preparation Works for Temporary Decking Erection	1 03-Dec-24	03-Dec-24	03-Dec-24		0		Preparation Works for Temporary Decking Erection
S012300	Temporary Falsework Erection	6 04-Dec-24		04-Dec-24		0		Temporary Falsework Erection
S012300 S012310	Cast-in situ of Pierhead Segments at DK-01 and ST01-B01	28 11-Dec-24	11-Jan-25	11-Dec-24		0		l
II.	or Cycle Track Cum Footbridge (CTFB)	52 15-Nov-24	14-Jan-25	13-Dec-24		67		Cast-in situ of Pierhead
	nt Erection Works	52 15-Nov-24	14-Jan-25	13-Dec-24		45		
		27 15-Nov-24	14-Jan-25 16-Dec-24	13-Dec-24 13-Dec-24		28		
	tu Pierhead segment at Pier FBP-01							
S013175	Installation of falsework for Pierhead Erection Pierhead Segment Erection + Alignment (ERR 01)	5 15-Nov-24*	20-Nov-24	13-Dec-24		24		Installation of falsework for Pierhead Erection
S013180	Pierhead Segment Erection + Alignment (FBP-01)	1 21-Nov-24	21-Nov-24	19-Dec-24		24		Pierhead Segment Erection + Alignment (FBP-01)
S013190	Diaphram Construction (2nd Cast) and falsework modification at FBP-01	21 22-Nov-24		25-Dec-24		28	<u> </u>	Diaphram Construction (2nd Cast) and false
Erection of In-si	tu Pierhead segment at Pier FBP-02	27 14-Dec-24	14-Jan-25	11-Jan-25	11-rep-25	24	<u>: </u>	
CEDD Civil E	EMRET 中國路橋工程有限責任公司 CHINA ROAD AND BRIDGE CORPORATION OPEN TO THE PROPERTY OF	nree Months Rolling P Period: 08-0 Pa	_	8-Jan-20		Oct-24)		Primary Baseline Actual Work Remaining Work Critical Remaining Work ↑ Milestone 3 Months Rolling Programme Date Revision Checked Approvate Actual Work Date Revision Checked Approvate Actual Work Date Revision Checked Approvate Actual Work New Jan-23 Rev.2.1k DL RP/RS Rev/RS Actual Work Date Revision Checked Approvate Actual Work Rev.2.1k DL RP/RS Actual Work Date Revision Checked Approvate Actual Work Rev.2.1k DL RP/RS Actual Work 22-Aug-23 Rev.3.0b SLX RP/RS Actual Work Rev.2.1k DL RP/RS Actual Work Rev.2.1k DL RP/RS Actual Work Actual Work Actual Work Date Revision Checked Approvate Actual Work Rev.2.1k DL RP/RS Actual Work Actual Wor

Development of Lok Ma Chau Loop: Main Works Package 1 - Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling/San Tin Highway and Direct Road Link Phase 1

Activity ID	Activity Name	At Completion Start Duration	Finish	Late Start	Late Finish	Total Float		2024 October November	December	2025 January February
								06 13 20 27 03 10 17 24 0	1 08 15 22 2	9 05 12 19 26 02 09 16
S013195	Installation of falsework for Pierhead Erection	5 14-Dec-24	19-Dec-24		16-Jan-25	24	1 :		Installat	on of falsework for Pierhead Erection
S013200	Pierhead Segment Erection + Alignment (FBP-02)	1 20-Dec-24	20-Dec-24		17-Jan-25	24				ad Segment Erection + Alignment (FBP
S013210	Diaphram Construction (2nd Cast) and falsework modification at FBP-02	21 21-Dec-24	14-Jan-25		11-Feb-25	24				Diaphram Construction (2r
Erection of In-si	situ Pierhead segment at Pier FBP-03	6 01-Jan-25	07-Jan-25	30-Jan-25	05-Feb-25	25				
S013215	Installation of falsework for Pierhead Erection	5 01-Jan-25	06-Jan-25	30-Jan-25	04-Feb-25	25				Installation of falsework for Pierh
S013220	Pierhead Segment Erection + Alignment (FBP-03)	1 07-Jan-25	07-Jan-25	05-Feb-25	05-Feb-25	25				Pierhead Segment Erection + A
Erection of In-si	situ Pierhead segment at Pier FBP-04	5 07-Jan-25	11-Jan-25	03-Mar-25	07-Mar-25	47				
Pierhead Segm	nent at Bridge CTFB-A	5 07-Jan-25	11-Jan-25	03-Mar-25	07-Mar-25	47				
S013255	Flasework Erection for Pierheard (at Bridge CTFB-A)	5 07-Jan-25	11-Jan-25	03-Mar-25	07-Mar-25	47				Flasework Erection for Pierh
Erection of T-Sp	pan and End Span Segments	16 17-Dec-24	03-Jan-25	15-Mar-25	02-Apr-25	76				
Erection of T-Sp	pan segments at Pier FBP-01	16 17-Dec-24	03-Jan-25	15-Mar-25	02-Apr-25	76				
S014100	Erection of 1st pair of segments at Pier FBP-01	1 17-Dec-24	17-Dec-24	15-Mar-25	15-Mar-25	76			• Frection	of 1st pair of segments at Pier FBP-01
S014180	Cast in-situ stitches between the pierhead segment and 1st pair of segments	6 18-Dec-24	24-Dec-24	17-Mar-25	22-Mar-25	76	4 1			t in-situ stitches between the pierhead
S014190	Erection of T-Span remaining segments(10 segments)	6 25-Dec-24	31-Dec-24	24-Mar-25	29-Mar-25	76	- :			Erection of T-Span remaining segmen
S014450	Stressing Permanent Top Tendon C at FBP-01	3 01-Jan-25	03-Jan-25	31-Mar-25		76	ļ	- 		Stressing Permanent Top Tendon (
Staircase for CTF	·	36 12-Dec-24	22-Jan-25		10-Apr-25	67				Onesound Lemmaneth nob rendout
Pile Cap and Co		36 12-Dec-24	22-Jan-25		10-Apr-25	67				
S014595	Pile Loading Test	14 12-Dec-24	27-Dec-24		15-Mar-25	67	i i		D	la Landing Tast
S014600	Installation of ELS and Pilehead treatment	21 28-Dec-24	22-Jan-25		10-Mar-25	63			F 7	ile Loading Test
	rack Subway Modification	0 08-Oct-24			09-Aug-24	-50	ļ	-		Installation of ELS ar
	-	0 08-Oct-24	08-Oct-24				1			
Construction of	Subway		08-Oct-24	_	09-Aug-24	-50	1			
Bay14	D. O. I.T. I	0 08-Oct-24	08-Oct-24	09-Aug-24	09-Aug-24	-50		Re-open Cycle Track		
S014690.170	Re-open Cycle Track	0	08-Oct-24*		09-Aug-24	-50		Re-open Cycle Itack		
Retaining Walls		385 22-Nov-23 A	12-Feb-25		20-Nov-26	554				
Retaining Wall R		44 08-Oct-24	27-Nov-24	29-Mar-25	,	148				
RW8c - Base Sla		18 08-Oct-24	28-Oct-24	29-Mar-25	•	148				
S014770.20	Formworks, Rebar & Cast Base Slab - Bay 1	6 08-Oct-24	14-Oct-24		04-Apr-25	148		Formworks, Rebar & Cast Base Slab	- Bay 1	
S014770.40	Formworks, Rebar & Cast Base Slab - Bay 3	6 08-Oct-24	14-Oct-24		04-Apr-25	148	-	Formworks, Rebar & Cast Base Slab	- Bay 3	
S014770.30	Formworks, Rebar & Cast Base Slab - Bay 2	6 15-Oct-24	21-Oct-24		11-Apr-25	148		Formworks, Rebar & Cast Base	Slab - Bay 2	
S014770.50	Formworks, Rebar & Cast Base Slab - Bay 4	6 15-Oct-24	21-Oct-24		11-Apr-25	148		Formworks, Rebar & Cast Base	Slab - Bay 4	
S014770.60	Formworks, Rebar & Cast Base Slab - Bay 5	6 22-Oct-24	28-Oct-24	12-Apr-25	18-Apr-25	148		Formworks, Rebar & Cast	Base Slab - Bay 5	
S014770.70	Formworks, Rebar & Cast Base Slab - Bay 6	6 22-Oct-24	28-Oct-24	12-Apr-25	18-Apr-25	148		Formworks, Rebar & Cast	Base Slab - Bay 6	
RW8c - Wall Ste	em	38 15-Oct-24	27-Nov-24	05-Apr-25	19-May-25	148				
S014770.80	Formworks, Rebar & Cast Wall Stem - Bay 1	6 15-Oct-24	21-Oct-24	05-Apr-25	11-Apr-25	148		Formworks, Rebar & Cast Wall	Stem - Bay 1	
S014770.100	Formworks, Rebar & Cast Wall Stem - Bay 3	6 15-Oct-24	21-Oct-24	05-Apr-25	11-Apr-25	148		Formworks, Rebar & Cast Wall		
S014770.90	Formworks, Rebar & Cast Wall Stem - Bay 2	6 22-Oct-24	28-Oct-24	12-Apr-25	18-Apr-25	148		Formworks, Rebar & Cast	•	
S014770.110	Formworks, Rebar & Cast Wall Stem - Bay 4	6 22-Oct-24	28-Oct-24	12-Apr-25	18-Apr-25	148		Formworks, Rebar & Cast		
S014770.120	Formworks, Rebar & Cast Wall Stem - Bay 5	6 29-Oct-24	04-Nov-24	19-Apr-25	25-Apr-25	148		Formworks, Rebar &		v.5
S014770.130	Formworks, Rebar & Cast Wall Stem - Bay 6	6 29-Oct-24		19-Apr-25		148	- :	Formworks, Rebar &		
S014780	Backfilling and removal of sheetpile	20 05-Nov-24		26-Apr-25	· ·	148	·		kfilling and removal o	·
Retaining Wall R	·	335 22-Nov-23 A	16-Dec-24		19-May-25	132	4 :			
Preparation Wo		282 22-Nov-23 A	15-Oct-24		24-Mar-25	137	1			
S014790	Installation of sheetpile / ELS	282 22-Nov-23 A		17-Mar-25		137		Installation of sheetpile / ELS		
RW8b - Base SI	·	24 08-Oct-24	04-Nov-24		07-Apr-25	132		installation of sheetpile / ELS		
S014800.10	Formworks, Rebar & Cast Base Slab - Bay 1	6 08-Oct-24	14-Oct-24		17-Mar-25	132	+	Formworks Dobor 9 Coot Door 9-1	Pov 1	
S014800.10 S014800.30	Formworks, Rebar & Cast Base Slab - Bay 1 Formworks, Rebar & Cast Base Slab - Bay 3	6 08-Oct-24	14-Oct-24		17-Mar-25	132	4 :	Formworks, Rebar & Cast Base Slab	•	
S014800.30 S014800.20	Formworks, Rebar & Cast base Slab - Bay 3 Formworks, Rebar & Cast Base Slab - Bay 2	6 15-Oct-24	21-Oct-24		24-Mar-25		1 :	Formworks, Rebar & Cast Base Slab		
	-					132		Formworks, Rebar & Cast Base	-	
S014800.40	Formworks, Rebar & Cast Base Slab - Bay 4	6 15-Oct-24	21-Oct-24		24-Mar-25	132	-1 :	Formworks, Rebar & Cast Base	-	
S014800.50	Formworks, Rebar & Cast Base Slab - Bay 5	6 22-Oct-24	28-Oct-24	25-Mar-25		132	ł	Formworks, Rebar & Cast		
S014800.70	Formworks, Rebar & Cast Base Slab - Bay 7	6 22-Oct-24	28-Oct-24	25-Mar-25	31-Mar-25	132	:	Formworks, Rebar & Cast	Base Slab - Bay 7	!
				<i>(</i> D : -				Drimon, Possiina	3 Mo	onths Rolling Programme
		Three Months Rolling P	rogramme	e (Data D	ate : 08-C	Jct-24)		Primary Baseline		evision Checked Approved





Three Months Rolling Programme (Data Date : 08-Oct-24)
Period: 08-Oct-24 to 08-Jan-2025
Page : 3 of 16

	Primary Baseline
	Actual Work
	Remaining Work
	Critical Remaining Work
A A	Milestone

3 Months Rolling Programme							
Date	Revision	Checked	Approved				
08-Jan-23	Rev.2.1k	DL	RP/RS				
22-Aug-23	Rev.3.0b	SLX	RP/RS				
14-Dec-23	Rev.3.0d	SLX	RP/RS				
27-May-24	Rev.3.0e	SLX	RP/RS				

Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling/San Tin Highway and Direct Road Link Phase 1

vity ID	Activity Name	At Completion Start	Finish	Late Start	Late Finish	Total Float		2024		2025	
,		Duration					1 29 1 0	October November 6 13 20 27 03 10 17 24 01 0	December	January 9 05 12 19 26	February
S014800.60	Formworks, Rebar & Cast Base Slab - Bay 6	6 29-Oct-24	04-Nov-24	01-Apr-25	07-Apr-25	132	1 1	Formworks, Rebar & Cast		_	02 00
S014800.80	Formworks, Rebar & Cast Base Slab - Bay 8	6 29-Oct-24	04-Nov-24	01-Apr-25	07-Apr-25	132		Formworks, Rebar & Cast	7		
RW8b - Wall Ster	n	54 15-Oct-24	16-Dec-24	18-Mar-25	19-May-25	132			1		
S014800.90	Formworks, Rebar & Cast Wall Stem - Bay 1	6 15-Oct-24	21-Oct-24	18-Mar-25	24-Mar-25	132		Formworks, Rebar & Cast Wall Stem	- Bav 1		1
S014800.110	Formworks, Rebar & Cast Wall Stem - Bay 3	6 15-Oct-24	21-Oct-24	18-Mar-25	24-Mar-25	132		Formworks, Rebar & Cast Wall Stem			
S014800.100	Formworks, Rebar & Cast Wall Stem - Bay 2	6 22-Oct-24	28-Oct-24	25-Mar-25	31-Mar-25	132	:	Formworks, Rebar & Cast Wall	1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
S014800.120	Formworks, Rebar & Cast Wall Stem - Bay 4	6 22-Oct-24	28-Oct-24	25-Mar-25	31-Mar-25	132		Formworks, Rebar & Cast Wall	- :		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
S014800.130	Formworks, Rebar & Cast Wall Stem - Bay 5	6 29-Oct-24	04-Nov-24	01-Apr-25	07-Apr-25	132		Formworks, Rebar & Cast	- :	.5	1 1 1
S014800.150	Formworks, Rebar & Cast Wall Stem - Bay 7	6 29-Oct-24	04-Nov-24	01-Apr-25	07-Apr-25	132		Formworks, Rebar & Cast	Ţ.		1 1 1 1
S014800.140	Formworks, Rebar & Cast Wall Stem - Bay 6	6 05-Nov-24	_		14-Apr-25	132		Formworks, Rebar &			
S014800.160	Formworks, Rebar & Cast Wall Stem - Bay 8	6 05-Nov-24			14-Apr-25	132		Formworks, Rebar &			
S014810	Backfilling and removal of sheetpile	30 12-Nov-24	16-Dec-24	- ·	19-May-25	132		T Grillion, lobal o	1	and removal of sheetp	ile
Retaining Wall RV	,	225 13-May-24 A	12-Feb-25	-	20-Nov-26	526			Dackilling	and removal of sheep	
Preparaion Work		182 13-May-24 A	17-Dec-24		20-Nov-26	569					1
S014900	Impletment TTA, UU detection / trial pit / Utility Shifting or Hanging	130 13-May-24 A	17-Oct-24		20-Nov-26	621		Impletment TTA, UU detection / trial pit /	I Itility Shifting or I	Hanging	
S014820	Installation of sheetoile	113 19-Jun-24 A	01-Nov-24	16-Nov-24				Installation of sheetpile	Ounty Stilling Of	rianging	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
S014825	Excavation / ELS	60 08-Oct-24	17-Dec-24	18-Oct-24		8		Installation of sheetplie	Excavation	n/EIC	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
RW8a - Base Sla		54 25-Oct-24	28-Dec-24	04-Nov-24		8			Excavation	II/ ELS	1
S014830.10	Formworks, Rebar & Cast Base Slab - Bay 1	6 25-Oct-24	31-Oct-24	04-Nov-24		8		Formworks Bohar & Cost Bo	oo Clob Pov 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
S014830.30	Formworks, Rebar & Cast Base Slab - Bay 3	6 25-Oct-24	31-Oct-24	04-Nov-24		8		Formworks, Rebar & Cast Ba			1
S014830.20	Formworks, Rebar & Cast Base Slab - Bay 2	6 01-Nov-24		11-Nov-24		Q Q		Formworks, Rebar & Cast Ba	- 1	0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
S014830.40	Formworks, Rebar & Cast Base Slab - Bay 4	6 01-Nov-24	07-Nov-24	11-Nov-24		Q		Formworks, Rebar & Ca	i	•	
S014830.50	Formworks, Rebar & Cast Base Slab - Bay 5	6 08-Nov-24	14-Nov-24		23-Nov-24	Ω		Formworks, Rebar & Ca		-	
S014830.70	Formworks, Rebar & Cast Base Slab - Bay 7	6 08-Nov-24	14-Nov-24		23-Nov-24	0		Formworks, Rebai	!	=	1
S014830.60	Formworks, Rebar & Cast Base Slab - Bay 6	6 15-Nov-24	21-Nov-24		30-Nov-24	0		Formworks, Rebai			
S014830.80	Formworks, Rebar & Cast Base Slab - Bay 8	6 15-Nov-24	21-Nov-24 21-Nov-24	25-Nov-24		0		· · · · · · · · · · · · · · · · · · ·	Rebar & Cast Bas	=	: : :
S014830.90	•	6 22-Nov-24	28-Nov-24	02-Dec-24	1 1	0		i	Rebar & Cast Bas	=	1 1 1
	Formworks, Rebar & Cast Base Slab - Bay 9					0	:			st Base Slab - Bay 9	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
S014830.110	Formworks, Rebar & Cast Base Slab - Bay 11	6 22-Nov-24	28-Nov-24	02-Dec-24 09-Dec-24		0		· · · · · · · · · · · · · · · · · · ·		st Base Slab - Bay 11	
S014830.100	Formworks, Rebar & Cast Base Slab - Bay 10	6 29-Nov-24	05-Dec-24			0				& Cast Base Slab - Ba	
S014830.120	Formworks, Rebar & Cast Base Slab - Bay 12	6 29-Nov-24	05-Dec-24	09-Dec-24		0				& Cast Base Slab - Ba	
S014830.130	Formworks, Rebar & Cast Base Slab - Bay 13	6 06-Dec-24	12-Dec-24	16-Dec-24		8				Rebar & Cast Base Sla	
S014830.150	Formworks, Rebar & Cast Base Slab - Bay 15	6 06-Dec-24	12-Dec-24	16-Dec-24		8		_	- 1 · 1	Rebar & Cast Base Sla	
S014830.140	Formworks, Rebar & Cast Base Slab - Bay 14	6 13-Dec-24		23-Dec-24		8				rks, Rebar & Cast Bas	:
S014830.160	Formworks, Rebar & Cast Base Slab - Bay 16	6 13-Dec-24		23-Dec-24		8			+	rks, Rebar & Cast Bas	
S014830.170	Formworks, Rebar & Cast Base Slab - Bay 17	6 20-Dec-24		02-Jan-25		8				ormworks, Rebar & Ca	ast Base Slab
RW8a - Wall Ster		83 01-Nov-24		11-Nov-24		8		_			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
S014835.10	Formworks, Rebar & Cast Wall Stem - Bay 1	6 01-Nov-24		11-Nov-24		8		Formworks, Rebar & Ca		-	1 1 1
S014835.30	Formworks, Rebar & Cast Wall Stem - Bay 3	6 01-Nov-24		11-Nov-24		8		Formworks, Rebar & Ca	:	•	1 1 1
S014835.20	Formworks, Rebar & Cast Wall Stem - Bay 2	6 08-Nov-24	14-Nov-24	18-Nov-24		8		Formworks, Rebai			: : : : :
S014835.40	Formworks, Rebar & Cast Wall Stem - Bay 4	6 08-Nov-24		18-Nov-24		8		Formworks, Rebai	i i	-	1 1 1 1
S014835.50	Formworks, Rebar & Cast Wall Stem - Bay 5	6 15-Nov-24		25-Nov-24		8		Formworks, I	1		1 1 1
S014835.70	Formworks, Rebar & Cast Wall Stem - Bay 7	6 15-Nov-24	21-Nov-24			8			Rebar & Cast Wa	-	1
S014835.60	Formworks, Rebar & Cast Wall Stem - Bay 6	6 22-Nov-24		02-Dec-24		8		i i	i i	st Wall Stem - Bay 6	
S014835.80	Formworks, Rebar & Cast Wall Stem - Bay 8	6 22-Nov-24		02-Dec-24		8				st Wall Stem - Bay 8	
S014835.90	Formworks, Rebar & Cast Wall Stem - Bay 9	6 29-Nov-24		09-Dec-24		8			1	& Cast Wall Stem - Ba	7
S014835.110	Formworks, Rebar & Cast Wall Stem - Bay 11	6 29-Nov-24		09-Dec-24		8				& Cast Wall Stem - Ba	7
S014835.100	Formworks, Rebar & Cast Wall Stem - Bay 10	6 06-Dec-24		16-Dec-24		8		· · · · · · · · · · · · · · · · · · ·		Rebar & Cast Wall Ster	i
S014835.120	Formworks, Rebar & Cast Wall Stem - Bay 12	6 06-Dec-24		16-Dec-24		8		_	Formworks, R	Rebar & Cast Wall Ster	n - Bay 12
S014835.130	Formworks, Rebar & Cast Wall Stem - Bay 13	6 13-Dec-24		23-Dec-24		8			Formwoi	rks, Rebar & Cast Wa	ll Stem - Bay
S014835.150	Formworks, Rebar & Cast Wall Stem - Bay 15	6 13-Dec-24	19-Dec-24	23-Dec-24	31-Dec-24	8	:		Formwoi	rks, Rebar & Cast Wa	Il Stem - Bay





Three Months Rolling Programme (Data Date : 08-Oct-24)
Period: 08-Oct-24 to 08-Jan-2025

Page: 4 of 16

	Primary Baseline	
	Actual Work	
	Remaining Work	
	Critical Remaining Work	
•	Milastana	

3 Months Rolling Programme							
Date	Revision	Checked	Approved				
08-Jan-23	Rev.2.1k	DL	RP/RS				
22-Aug-23	Rev.3.0b	SLX	RP/RS				
14-Dec-23	Rev.3.0d	SLX	RP/RS				
27-May-24	Rev.3.0e	SLX	RP/RS				

Development of Lok Ma Chau Loop: Main Works Package 1 - Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling/San Tin Highway and Direct Road Link Phase 1

S014835.140	Formworks, Rebar & Cast Wall Stem - Bay 14	Duration				22	29 06	October November December January February 06 13 20 27 03 10 17 24 01 08 15 22 29 05 12 19 26 02 09 16
	Formworks Pohar & Cast Wall Stom, Boy 14							
	TOTTIWORKS, Nebal & Cast Wall Stell - Bay 14	6 20-Dec-24	28-Dec-24	02-Jan-25	08-Jan-25	8		Formworks, Rebar & Cast Wall Stem - E
S014835.160	Formworks, Rebar & Cast Wall Stem - Bay 16	6 20-Dec-24	28-Dec-24	02-Jan-25	08-Jan-25	8		Formworks, Rebar & Cast Wall Stem - E
S014835.170	Formworks, Rebar & Cast Wall Stem - Bay 17	6 30-Dec-24	06-Jan-25	09-Jan-25	15-Jan-25	8		Formworks, Rebar & Cast Wall S
S014840	Backfilling, Removal of Sheetpile & Reinstatement	35 30-Dec-24	12-Feb-25	09-Jan-25	21-Feb-25	8		Back
Retaining Wall RV	N12	31 09-Nov-24	14-Dec-24	15-May-25	20-Jun-25	148		
S014910	UU detection / trial pit / Utility Shifting or Hanging	6 09-Nov-24	15-Nov-24	15-May-25	21-May-25	148		UU detection / trial pit / Utility Shifting or Hanging
S014850	Installation of sheetpile	5 16-Nov-24	21-Nov-24	22-May-25	27-May-25	148		Installation of sheetpile
S014860	Excavation and construction of Retaining Wall RW12(1bay)	10 22-Nov-24	03-Dec-24	28-May-25	09-Jun-25	148		Excavation and construction of Retaining Wall RW12(1bay
S014870	Backfilling and removal of sheetpile	10 04-Dec-24	14-Dec-24	-	20-Jun-25	148		Backfilling and removal of sheetpile
Retaining Wall RV	W13	35 16-Nov-24	28-Dec-24	27-May-25	03-Jul-25	148		
S015110	UU detection / trial pit / Utility Shifting or Hanging	6 16-Nov-24		27-May-25		152		UU detection / trial pit / Utility Shifting or Hanging
S015100	Installation of sheetpile	5 23-Nov-24	28-Nov-24	-	09-Jun-25	152		Installation of sheetpile
S015140	Excavation and construction of Retaining Wall RW13(1bay)	10 29-Nov-24	10-Dec-24		20-Jun-25	152		Excavation and construction of Retaining Wall RW13
S015150	Backfilling and removal of sheetpile	10 16-Dec-24		21-Jun-25		148		Backfilling and removal of sheetpile
Retaining Wall RV		36 23-Nov-24	07-Jan-25	26-Jun-25		148		Backnilling and removal of sheetpile
S015165	UU detection / trial pit / Utility Shifting or Hanging	6 23-Nov-24	29-Nov-24	26-Jun-25		171		III I detection / trial nit / I Hillity Chiffing or Honeing
S015155	Installation of sheetpile	7 30-Dec-24	07-Jan-25	04-Jul-25	11-Jul-25	148		UU detection / trial pit / Utility Shifting or Hanging Installation of sheetpile
Retaining Wall RV	· ·	35 30-Nov-24	13-Jan-25	04-Jul-25	13-Aug-25	171		Installation of sneetpile
S015200	UU detection / trial pit / Utility Shifting or Hanging	6 30-Nov-24	06-Dec-24	04-Jul-25	10-Jul-25	171		
						171		UU detection / trial pit / Utility Shifting or Hanging
S015175	Construction of Retaining Wall RW7	21 07-Dec-24	03-Jan-25	11-Jul-25	04-Aug-25			Construction of Retaining Wall RW
S015180	Backfilling with light concrete	8 04-Jan-25	13-Jan-25	05-Aug-25	_	171		Backfilling with light concret
Retaining Wall RV		110 08-Oct-24	12-Feb-25	08-Oct-24		1		
	rks RW10 - Stage 1	87 08-Oct-24	16-Jan-25	08-Oct-24		0		
S015205	Implement TTA	1 08-Oct-24*	08-Oct-24		08-Oct-24	0	.	Implement TTA
S015185	Excavate and expose existing UUs / Shift or Hang UUs Clashing with Permanent Works		18-Dec-24	09-Oct-24		0		Excavate and expose existing UUs / Shift or Hai
S015190	Installation of sheetpile, Wailing & Struts	60 24-Oct-24	04-Jan-25		04-Jan-25	0		Installation of sheetpile, Wailing & S
S015195	Excavation	60 05-Nov-24	16-Jan-25	05-Nov-24		0		Excavation
Stage 1 - RW10 F		36 28-Nov-24	11-Jan-25	28-Nov-24		22		
Stage 1 - RW10	- Base Slab	36 28-Nov-24	11-Jan-25	28-Nov-24		22		
S015200.05	Rockfill to Sub-base & Compaction plus Blinding (head start)	12 28-Nov-24	11-Dec-24	28-Nov-24	11-Dec-24	0		Rockfill to Sub-base & Compaction plus Blinding (hea
S015200.10	Form, Rebar & Cast Base Slab - RW 10. Stage 1 Bay 10	6 12-Dec-24	18-Dec-24	12-Dec-24	18-Dec-24	0		Form, Rebar & Cast Base Slab - RW10.Stage 7
S015200.30	Form, Rebar & Cast Base Slab - RW10.Stage 1 Bay 8	6 12-Dec-24	18-Dec-24	19-Dec-24	27-Dec-24	6		Form, Rebar & Cast Base Slab - RW10.Stage 1
S015200.20	Form, Rebar & Cast Base Slab - RW10.Stage 1 Bay 9	6 19-Dec-24	27-Dec-24	19-Dec-24	27-Dec-24	0		Form, Rebar & Cast Base Slab - RW10.
S015200.40	Form, Rebar & Cast Base Slab - RW10.Stage 1 Bay 7	6 19-Dec-24	27-Dec-24	17-Jan-25	23-Jan-25	22		Form, Rebar & Cast Base Slab - RW10.
S015200.50	Form, Rebar & Cast Base Slab - RW10.Stage 1 Bay 6	6 28-Dec-24	04-Jan-25	24-Jan-25	03-Feb-25	22		Form, Rebar & Cast Base Slab - R
S015200.70	Form, Rebar & Cast Base Slab - RW10.Stage 1 Bay 4	6 28-Dec-24	04-Jan-25	24-Jan-25	03-Feb-25	22		Form, Rebar & Cast Base Slab - R
S015200.60	Form, Rebar & Cast Base Slab - RW 10.Stage 1 Bay 5	6 06-Jan-25	11-Jan-25	04-Feb-25	10-Feb-25	22		Form, Rebar & Cast Base Sla
S015200.80	Form, Rebar & Cast Base Slab - RW 10.Stage 1 Bay 3	6 06-Jan-25	11-Jan-25	04-Feb-25	10-Feb-25	22		Form, Rebar & Cast Base Sla
Stage 1 - RW10 -	- Wall Stem	10 28-Dec-24	09-Jan-25	28-Dec-24	09-Jan-25	0		
S015200.110	Form, Rebar and Cast Wall Stem - RW10.Stage 1 Bay 10	10 28-Dec-24	09-Jan-25	28-Dec-24	09-Jan-25	0		Form, Rebar and Cast Wall Ste
S015200.130	Form, Rebar and Cast Wall Stem - RW10.Stage 1 Bay 8	10 28-Dec-24		28-Dec-24	09-Jan-25	0		Form, Rebar and Cast Wall Ste
	Last 10 Bays incl. U-Trough	42 19-Dec-24		20-Dec-24		1		1 om, Nobal and Cast Wall Old
I — —	rks RW10 - Stage 2	42 19-Dec-24		20-Dec-24		1		
S016010	Excavate and expose existing UUs / Shift or Hang UUs Clashing with Permanent Works			20-Dec-24		1		Excavate and expo
S016020	Installation of sheetpile, Wailing & Struts	30 06-Jan-25		07-Jan-25		1		
Slope Works	in beaution of ortoopilo, fraining a ortoto	88 08-Oct-24		02-Jun-25		189		Insta
Slope F26 in RW9		50 08-Oct-24		02-Jun-25	•	191		
S015260.10	Slope Benching Bay 10-16	30 08-Oct-24		02-Jun-25	_			Clana Dana Harri Dani 40 40
	Fill slope to required profile, incl.associated works		23-Nov-24			189		Slope Benching Bay 10-16
S015260.20 S015260.30		30 21-Oct-24				191		Fill slope to required profile, incl. associated works
	Geo Survey and Slope Protection Measures - Geo Mat / Hydroseeding	10 25-Nov-24	05-Dec-24	22-JUI-25	U1-Aug-25	191	1	Geo Survey and Slope Protection Measures - Geo Mat / F
3013200.30	, , ,				-			, , , , , , , , , , , , , , , , , , , ,





Three Months Rolling Programme (Data Date: 08-Oct-24)
Period: 08-Oct-24 to 08-Jan-2025

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P	age	: 5	of	16	

Primary Baseline	
Actual Work	_
Remaining Work	2
Critical Remaining Work	14
▲ Milestone	

3 Months Rolling Programme							
Date	Revision	Checked	Approved				
08-Jan-23	Rev.2.1k	DL	RP/RS				
22-Aug-23	Rev.3.0b	SLX	RP/RS				
14-Dec-23	Rev.3.0d	SLX	RP/RS				
27-May-24	Rev.3.0e	SLX	RP/RS				

Development of Lok Ma Chau Loop: Main Works Package 1 - Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling/San Tin Highway and Direct Road Link Phase 1

D	Activity Name	AtCompletion Start Duration	Finish	Late Start	Late Finish	Total Float	2024 2025 October November December January February
Slone E22 neer	DWD	30 13-Nov-24	17-Dec-24	08_ tul 25	11-Aug-25	189	22 29 06 13 20 27 03 10 17 24 01 08 15 22 29 05 12 19 26 02 09
Slope F23 near S015250.10	Slope Benching (F23)	10 13-Nov-24	23-Nov-24	08-Jul-25	18-Jul-25	189	Close Develors (FOO)
S015250.10 S015250.20	Fill slope to required profile, incl.associated works	10 13-Nov-24 10 25-Nov-24	05-Dec-24		30-Jul-25	189	Slope Benching (F23) Fill slope to required profile, incl.associated works
S015250.20 S015250.30	Geo Survey and Slope Protection Measures - Geo Mat / Hydroseeding	10 25-Nov-24 10 06-Dec-24	17-Dec-24		11-Aug-25	189	Fill slope to required profile, incl. associated works Geo Survey and Slope Protection Measures
lope F20 near		18 30-Dec-24	20-Jan-25	02-Aug-25		173	Geo Survey and Slope Protection Measures
S015280.10	Slope Benching (F20)	18 30-Dec-24	20-Jan-25	02-Aug-25 02-Aug-25	_	173	Clane Develors /F
lope F19 near	, , ,	28 18-Dec-24	20-Jan-25 22-Jan-25	_	12-Sep-25	189	Slope Benching (F2
S015270.10	Slope Benching (F19)	14 18-Dec-24	06-Jan-25	12-Aug-25	-	189	Clara Danakina (F40)
S015270.10 S015270.20	Fill slope to required profile, incl.associated works	14 07-Jan-25	22-Jan-25	28-Aug-25		189	Slope Benching (F19)
oad & Drainag		92 08-Oct-24	22-Jan-25	17-Mar-25		239	Fill slope to require
	e SMH70010 to SMH70060, SMH70100-SMH70110 & Catchpits CP301-CP304	92 08-Oct-24	22-Jan-25		28-Oct-25	239	
6015420	Apply and Implement TTA	14 08-Oct-24	23-Oct-24		29-Jul-25	239	Analy and levels want TTA
6015420 6015400	Portion 1 - Road Formation & Drainage works (DN450 SMH70050 to SMH70010)	30 24-Oct-24	27-Nov-24		02-Sep-25	239	Apply and Implement TTA
S015400 S015505	Concrete Maintenance Stairway and 800mm Maintenance Access	30 24-Oct-24	27-Nov-24 27-Nov-24	30-Jui-25 30-Aug-25		266	Portion 1 - Road Formation & Drainage works (DN450 SMH7
6015410	Backfill Drainage Trench (DN450 SMH70050 to SMH70010) in Portion 1	30 24-Oct-24 14 28-Nov-24	13-Dec-24	18-Sep-25		252	Concrete Maintenance Stairway and 800mm Maintenance Ac
015440	Portion 1 - Construct D101 New Road Alignment and Paving Works	14 28-Nov-24 14 14-Dec-24		04-Oct-25			Backfill Drainage Trench (DN450 SMH70050 to
015440 015510			30-Dec-24			252	Portion 1 - Construct D101 New Ro
	Backfill and Modify Slip Road to New Alignment + Construct MH SMH70060 and Lay DN450 (partial only)	14 14-Dec-24	30-Dec-24	13-Oct-25		259	Backfill and Modify Slip Road to Ne
015430	Portion 2 - Drainage Works (DN300 SMH70050 to SMH70100 + CP303 & CP304) + crossing to SMH70060	30 28-Nov-24	01-Jan-25	03-Sep-25		239	Portion 2 - Drainage Works (DN3
015450	Road Paving, Markings & Signages	7 31-Dec-24	07-Jan-25	21-Oct-25		252	Road Paving, Markings & Sig
015600	Backfill, Road Paving, Marking & Signages	18 02-Jan-25	22-Jan-25	08-Oct-25		239	Backfill, Road Pa
	ads & Drainage Works	21 20-Nov-24	13-Dec-24	17-Mar-25	•	100	
T02 Slip Road	d / CTFB Staircase / AP02 Ramp	21 20-Nov-24	13-Dec-24	17-Mar-25		100	
8011155	Drainage works in and around CTFB Staircase CP402, CP403 & CP404 + Lay DN300 Road Crossing to SMH60050	21 20-Nov-24*	13-Dec-24	17-Mar-25	09-Apr-25	100	Drainage works in and around CTFB Staircase (
er Main in Po	ortion 1	93 08-Oct-24	28-Jan-25	30-Nov-24	25-Mar-25	45	
ater Main Adj	acent to RW8a in Portion 1	93 08-Oct-24	28-Jan-25	30-Nov-24	25-Mar-25	45	
01.3010	Implement TTA to Cycle Track and Footpath	1 08-Oct-24	08-Oct-24	30-Nov-24	30-Nov-24	45	▮ Implement TTA to Cycle Track and Footpath
01.3020	Trial Pit and Expose existing UU / Shift or Hang Utilities clashing with Water Main	12 09-Oct-24	23-Oct-24	02-Dec-24	14-Dec-24	45	Trial Pit and Expose existing UU / Shift or Hang Utilities clashing with Water Main
01.3030	Submit Shop Drawing / Construct Air Valve Chamber and Relocate Existing Air Valve	24 24-Oct-24	20-Nov-24	16-Dec-24	15-Jan-25	45	Submit Shop Drawing / Construct Air Valve Chamber and Relocat
01.3040	Excavate, laying of DN600 Water Main and Install Valves CH.0.00 to CH.73.300	28 21-Nov-24	23-Dec-24	16-Jan-25		45	Excavate, laying of DN600 Water Main a
01.3050	Testing, Chemical Cleaning, Flushing, Water Sampling, Connection and backfilling	28 24-Dec-24				45	Testing, Che
tion 2A of the	e Works-Completion of the Works at Lok Ma Chau Road within Portion 1,5 and 8	207 26-Apr-24 A		20-Aug-24	20-Nov-26	598	locally, one
A.KD.1010	Planned Section 2A Completion of Works at LMC Road	0	13-Nov-24		25-Sep-24	-42	◆ Planned Section 2A Completion of Works at LMC Road
	V1 to CS2 CH000 to CH100	36 08-Oct-24	12-Nov-24	25-Sep-24		738	
	I / CS1 & CS2 Slopes	22 08-Oct-24	29-Oct-24	30-Oct-26		752	
-	ion, Shotcrete Wall & Skin Wall amd Capping Beam	22 08-Oct-24	29-Oct-24	30-Oct-26		752	
S2 Slope Fo		22 08-Oct-24	29-Oct-24	30-Oct-26		752	
Soil Nail at C		22 08-Oct-24	29-Oct-24	30-Oct-26		752	
	064 Soil Nailing Installation	22 08-Oct-24	29-Oct-24	30-Oct-26		752	Soil Nailing Installation
ainage Works		1 08-Oct-24	08-Oct-24	20-Nov-26		773	COIL I VAIIII I Y II ISLAII ALIOI I
	30 Backfill & Compact Subbase for Footpath & road	1 08-Oct-24	08-Oct-24	20-Nov-26		773	Backfill & Compact Subbase for Footpath & road
	Cycle Track Construction in front of BPW1	36 08-Oct-24		25-Sep-24		350	β Dackilli α Compact Subbase for Pootpath α todu
-	00 Apply road marking & open SB to public	1 08-Oct-24		25-Sep-24		-13	Apply road marking & open SP to public
	Preaking temp road surface and reconstruct O/S roadkerb, footpath & cycle track	35 09-Oct-24		23-Sep-24 24-Sep-25	-	350	Apply road marking & open SB to public
	to Meter CarPark Incl.LMCP CH100 to CH200	15 08-Oct-24	22-Oct-24	11-Sep-24		-27	Breaking temp road surface and reconstruct O/S roadkerb, footpath & cy
	in Meter CarPark	15 08-Oct-24	22-Oct-24 22-Oct-24	11-Sep-24		-27	
ca Z - VVOINS		15 08-Oct-24	22-Oct-24 22-Oct-24	11-Sep-24 11-Sep-24		-27	
oico Damier N					-	-27	
	U	12 11-Oct-24 6 11-Oct-24	22-Oct-24 16-Oct-24	14-Sep-24 14-Sep-24	-	-27	Install post (4 pos.) for NR13
NB13 & DN70	47(Install post (4 pos.) for NR13		10-001-24	17-06p-24	10-06p-24	-21	Install post (4 nos.) for NB13
NB13 & DN70	471 Install post (4 nos.) for NB13	0 11 00(2)					2 Months Polling Draws
NB13 & DN70		ee Months Rolling Pr	ogramme	e (Data Da	ate : 08-C	Oct-24)	Primary Baseline 3 Months Rolling Programme
NB13 & DN70 S2A.PC.A101	Thre	ee Months Rolling Pr	_	•		Oct-24)	Actual Work Date Revision Checked Approv
会 ±*1	Three 中國路橋工程有限責任公司	ee Months Rolling Pr Period: 08-0	Oct-24 to 0	08-Jan-20		Oct-24)	Actual Work Date Revision Checked Approve 08-Jan-23 Rev.2.1k DL RP/RS
NB13 & DN700 S2A.PC.A101 DD 土木コ Civil	Three Table 1997年1997年1997年1997年1997年1997年1997年1997	ee Months Rolling Pr Period: 08-0	_	08-Jan-20		Oct-24)	Actual Work Date Revision Checked Approve 08-lan-23 Rev 2 1k DI RP/RS

Development of Lok Ma Chau Loop: Main Works Package 1 - Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling/San Tin Highway and Direct Road Link Phase 1

Activity ID	Activity Name	AtCompletion Start	Finish	Late Start	Late Finish	Total Float	2024 2025
,		Duration					October November December January February 2 29 06 13 20 27 03 10 17 24 01 08 15 22 29 05 12 19 26 02 09 16
S2A.PC.A10148	Install panel and top tie beam (3 nos.) for NB13	6 17-Oct-24	22-Oct-24	20-Sep-24	25-Sep-24	-27	Install panel and top tie beam (3 nos.) for NB13
UU Works behin	d NB13	3 08-Oct-24	10-Oct-24	11-Sep-24	13-Sep-24	-27	
S2A.PB.A100440	Backfill trench	3 08-Oct-24	10-Oct-24	11-Sep-24	13-Sep-24	-27	Backfill trench
Portion C - Meter C	Car Park to Kwan Yin Temple CH200 to CH300	31 30-Sep-24 A	30-Oct-24	29-Oct-26	20-Nov-26	751	
Noise Barrier NB1	6	31 30-Sep-24 A	30-Oct-24	29-Oct-26	20-Nov-26	751	
Steel Works and	Panel Installation	12 08-Oct-24	19-Oct-24	29-Oct-26	13-Nov-26	755	
S2A.PC.A100900	Install post (18 nos.) for NB16	6 08-Oct-24	13-Oct-24	29-Oct-26	03-Nov-26	751	Install post (18 nos.) for NB16
S2A.PC.A100910	Install panel and top tie beam (17 nos.) for NB16	6 14-Oct-24	19-Oct-24	08-Nov-26	13-Nov-26	755	Install panel and top tie beam (17 nos.) for NB16
Footpath and Cyc	cle Track	31 30-Sep-24 A	30-Oct-24	04-Nov-26	20-Nov-26	751	
S2A.PC.A100940	Paving blocks	10 30-Sep-24 A	09-Oct-24	12-Nov-26	13-Nov-26	765	Paving blocks
S2A.PC.A100950	Road lighting ducts and drawpits 15mos.	10 14-Oct-24	23-Oct-24	04-Nov-26	13-Nov-26	751	Road lighting ducts and drawpits 15mos.
S2A.PC.A100960	Road lighting installation 15 nos.	7 24-Oct-24	30-Oct-24	14-Nov-26	20-Nov-26	751	Road lighting installation 15 nos.
	fin Temple to Pai Lau CH300 to CH450	48 02-Sep-24 A	19-Oct-24	21-Sep-24	20-Nov-26	762	
Retaining Wall RW		45 02-Sep-24 A	16-Oct-24		20-Nov-26	765	
<u> </u>	Backfill of RW6 Bay 1 - Bay 3 (Concurrent with drainage works)	45 02-Sep-24 A	16-Oct-24	12-Nov-26	20-Nov-26	765	Backfill of RW6 Bay 1 - Bay 3 (Concurrent with drainage works)
UU Works and Lig		12 08-Oct-24	19-Oct-24		20-Nov-26	762	
	Placement of precast drawpits and laying of lighting ducts	7 08-Oct-24	14-Oct-24		15-Nov-26	762	Placement of precast drawpits and laying of lighting ducts
	Installation of Lighting Poles	5 15-Oct-24	19-Oct-24	16-Nov-26	20-Nov-26	762	Installation of Lighting Poles
Cut Slope (CS3)		7 08-Oct-24	14-Oct-24	14-Nov-26	20-Nov-26	767	Indulation Egitting Follow
	Formation of cut slope CS3	7 08-Oct-24	14-Oct-24		20-Nov-26	767	Formation of cut slope CS3
	nd Capping Beam (total 3 Bays)	10 08-Oct-24	17-Oct-24		20-Nov-26	764	1 officialion of cut slope coo
	Capping Beam Construction	10 08-Oct-24	17-Oct-24		20-Nov-26	764	Capping Beam Construction
Road Works	Capping Boarn Construction	19 24-Sep-24 A	12-Oct-24		25-Sep-24	-17	Capping Beam Construction
	Permanent reinstatement of southbound bituminous pavement	14 24-Sep-24 A	08-Oct-24		24-Sep-24	-13	Permanent reinstatement of southbound bituminous pavement
	Planting at amenity area	5 08-Oct-24	12-Oct-24	21-Sep-24	•	-17	
S2A.PD.A100067	-	1 12-Oct-24	12-Oct-24	-	25-Sep-24	-17	Planting at amenity area Road Marking
	to Chau Tau West Road CH450 to CH600	20 08-Oct-24	27-Oct-24		20-Nov-26	754	Noad Walking
	ain, CLP Ducts, UUs and Drainage Works (F/P) Completed Works Before 16Apr2024	5 08-Oct-24	12-Oct-24	-	20-Nov-26	769	
	Paving block placement for footpath	5 08-Oct-24	12-Oct-24		20-Nov-26	769	Paving block placement for footpath
New Lighting	Taving stock placement to recipality	20 08-Oct-24	27-Oct-24		25-Sep-24	-32	Paving block placement for lootpaint
	Placement of precast drawpits and laying of lighting ducts	15 08-Oct-24	22-Oct-24		20-Sep-24	-32	Discoment of proceed drougite and leging of lighting duete
	Installation of Lighting Poles	5 23-Oct-24		21-Sep-24		-32	Placement of precast drawpits and laying of lighting ducts Installation of Lighting Poles
	au West to EIBC CH600 to CH760	60 08-Oct-24		20-Aug-25	-	271	Installation of Lighting Poles
	/-CTW (Remaining Works)	60 08-Oct-24	16-Dec-24	_		271	
Other Remaining		60 08-Oct-24				271	
AW.RW 100260	Install Railing on the top of Retaining Wall RW-CTW	30 08-Oct-24		20-Aug-25		271	Install Dailing on the ten of Dataining Well DIM CTM
	Installation of Parapets	30 12-Nov-24		24-Sep-25	-	271	Install Railing on the top of Retaining Wall RW-CTW
	from Nullah to CPR CH760 to CH990	207 26-Apr-24 A		29-Aug-24		598	Installation of Parapets
	on Remaining Works	207 26-Apr-24 A				265	
Trapezoiddal Nul		150 26-Apr-24 A	17-Oct-24	-	25-Sep-24	-19	
RC Structure	IGN I	150 26-Apr-24 A	17-Oct-24	16-Sep-24		-19	
	No fine concrete bay 1	1 08-Oct-24	08-Oct-24	16-Sep-24		-17	No. 5
S2A.PG.A10034 S2A.PG.A10035	,	2 09-Oct-24		17-Sep-24		-17	No fine concrete bay 1
	Formwork erection Bay 1	4 12-Oct-24	16-Oct-24	-	24-Sep-24	-17	Blinding Bay 1
	Trapezoidal Nullah RC Construction					-17	Formwork erection Bay 1
	Concrete Bay 1	175 26-Apr-24 A 1 17-Oct-24	17-Oct-24		25-Sep-24		Trapezoidal Nullah RC Construction
Rectangular Nulla	·	65 08-Oct-24	17-Oct-24 23-Dec-24	25-Sep-24	25-Sep-24 28-Oct-25	-17 248	Concrete Bay 1
	311					248	
Drainage	Excavation for manhole SMH81020	65 08-Oct-24 4 08-Oct-24	23-Dec-24 12-Oct-24	12-Aug-25	28-Oct-25 15-Aug-25	248	F 1: 4 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		2 14-Oct-24	15-Oct-24	16-Aug-25		248	Excavation for manhole SMH81020
32A.PG.A10078	Construct MH SMH81020 benching	Z 14-UCI-24	15-UCI-24	10-Aug-25	10-Aug-20	248	Construct MH SMH81020 benching
·							Drimany Recolling 3 Months Rolling Programme





Three Months Rolling Programme (Data Date : 08-Oct-24)
Period: 08-Oct-24 to 08-Jan-2025

Page: 7 of 16

	Primary Baseline
	Actual Work
	Remaining Work
	Critical Remaining Work
A	Milestone

	3 Months Rolling	g Programme	
Date	Revision	Checked	Approved
08-Jan-23	Rev.2.1k	DL	RP/RS
22-Aug-23	Rev.3.0b	SLX	RP/RS
14-Dec-23	Rev.3.0d	SLX	RP/RS
27-May-24	Rev.3.0e	SLX	RP/RS

Development of Lok Ma Chau Loop: Main Works Package 1 - Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling/San Tin Highway and Direct Road Link Phase 1

Activity ID	Activity Name	At Completion Start	Finish	Late Start	Late Finish	Total Float	2024 2025
		Duration				22	October November December January February 29 06 13 20 27 03 10 17 24 01 08 15 22 29 05 12 19 26 02 09 12
S2A.PG.A10079	Construct MH SMH81020 top slab	4 16-Oct-24	19-Oct-24	19-Aug-25	22-Aug-25	248	Construct MH SMH81020 top slab
S2A.PG.A10080	Excavation for drain SMH81020 - SMH81010	4 16-Oct-24	19-Oct-24	20-Aug-25	23-Aug-25	249	Excavation for drain SMH81020 - SMH81010
S2A.PG.A10081	Lay pipe for drain SMH81020 - SMH81010	3 21-Oct-24	23-Oct-24	25-Aug-25	27-Aug-25	249	Lay pipe for drain SMH81020 - SMH81010
S2A.PG.A10082	Excavation for manhole SMH81010	4 21-Oct-24	24-Oct-24	23-Aug-25	27-Aug-25	248	Excavation for manhole SMH81010
S2A.PG.A10083	Construct MH SMH81010 benching	2 25-Oct-24	26-Oct-24	28-Aug-25	29-Aug-25	248	Construct MH SMH81010 benching
S2A.PG.A10084	Construct MH SMH81010 top slab	3 29-Oct-24	31-Oct-24	01-Sep-25	03-Sep-25	248	Construct MH SMH8 1010 top slab
S2A.PG.A10085	Excavation for drain SMH81010 - SMH81000	3 29-Oct-24	31-Oct-24	01-Sep-25	03-Sep-25	248	Excavation for drain SMH81010 - SMH81000
S2A.PG.A10086	Lay pipe for drain SMH81010 - SMH81000	3 01-Nov-24	04-Nov-24	04-Sep-25	06-Sep-25	248	Lay pipe for drain SMH81010 - SMH81000
S2A.PG.A10087	Excavation for manhole SMH81000	4 01-Nov-24	05-Nov-24	04-Sep-25	08-Sep-25	248	Excavation for manhole SMH81000
S2A.PG.A10088	Construct MH SMH81000 benching	2 06-Nov-24	07-Nov-24	09-Sep-25	10-Sep-25	248	Construct MH SMH81000 benching
S2A.PG.A10089	Construct MH SMH81000 top slab	4 08-Nov-24	12-Nov-24	11-Sep-25	15-Sep-25	248	Construct MH SMH81000 top slab
S2A.PG.A10090	Backfill trench SMH81020 - SMH81000	12 13-Nov-24	26-Nov-24	16-Sep-25	29-Sep-25	248	Backfill trench SMH81020 - SMH81000
S2A.PG.A10091	Gully 12nos.	12 20-Nov-24	03-Dec-24	23-Sep-25	08-Oct-25	248	Gully 12nos.
S2A.PG.A10092	Backfill and kerb	17 04-Dec-24	23-Dec-24	09-Oct-25	28-Oct-25	248	Backfill and kerb
EIBC ELS + Base I	RC Structure	145 09-May-24 A	25-Oct-24	03-Nov-26	20-Nov-26	649	
RC Structure		145 09-May-24 A	25-Oct-24	03-Nov-26	20-Nov-26	649	
S2A.PG.A100980	Blinding Bay 2	1 08-Oct-24	09-Oct-24		04-Nov-26	757	■ Blinding Bay 2
	Rebar fixing base slab Bay 2	6 09-Oct-24	15-Oct-24		10-Nov-26	757	Rebar fixing base slab Bay 2
	Formwork erection base slab Bay 2	2 15-Oct-24	17-Oct-24		12-Nov-26	612	Formwork erection base slab Bay 2
	Concrete base slab Bay 2	1 17-Oct-24	18-Oct-24		13-Nov-26	612	Concreté base slab Bay 2
	Formwork erection wall and top slab Bay 2	3 18-Oct-24	21-Oct-24		16-Nov-26	757	Formwork erection wall and top slab Bay 2
	Rebar fixing wall and top slab Bay 2	3 21-Oct-24	24-Oct-24		19-Nov-26	612	Rebar fixing wall and top slab Bay 2
	RC Structure of EIBC	139 09-May-24 A	25-Oct-24		20-Nov-26	612	RC Structure of EIBC
	Concrete wall and top slab Bay 2	1 24-Oct-24	25-Oct-24	20-Nov-26		612	Congreto well and top clob Pay 2
Watermain Works	Controlle Wall and top stab bay 2	28 08-Oct-24	04-Nov-24	29-Aug-24		-40	☐ Concrete wall and top slab Bay 2 ☐
	Watermain - ELS and Excavation Stage 5	6 08-Oct-24	13-Oct-24	_	03-Sep-24	-40	Wetermain FI C and Everyation Store F
	Watermain Laying Works Stage 5	24 10-Oct-24		31-Aug-24		-40	Watermain - ELS and Excavation Stage 5
	Reinstatement Works Area Stage 5	6 30-Oct-24		20-Sep-24	-	-40	Watermain Laying Works Stage 5
	Peak Road Part in Section 2B	41 08-Oct-24		20-Sep-24 20-Aug-24		623	Reinstatement Works Area Stage 5
Uncle Liu CarPark		24 08-Oct-24		28-Aug-24		-33	
Lighting and Road		24 08-Oct-24		28-Aug-24		-33	
	Open new run-in for car park	1 08-Oct-24		28-Aug-24	-	-33	
	Traffic signal ducting and drawpit	6 14-Oct-24		02-Sep-24		-33	Open new run-in for car park
	Excavation existing run-in	6 21-Oct-24	26-Oct-24			-33	Traffic signal ducting and drawpit
	•						Excavation existing run-in
S2A.PH.A100015	Install new road light	6 21-Oct-24 6 21-Oct-24	26-Oct-24 26-Oct-24	09-Sep-24	14-Sep-24	-33	Install new road light
	Road kerb and paving block			16-Sep-24		-33	Backfilling
	·	6 28-Oct-24			-	-33	Road kerb and paving block
S2A.PH.A100018	Aspiral aying	2 04-Nov-24 31 08-Oct-24		24-Sep-24	-	-33	Asphalt laying
Traffic Island				20-Aug-24		-40	
Traffic Island No.1		24 08-Oct-24		20-Aug-24		-33	
	Remove temporary pavement	5 08-Oct-24*		20-Aug-24		-40	Remove temporary pavement
	Relocate directional sign	4 15-Oct-24		03-Sep-24		-33	Relocate directional sign
	Install new road lighting	2 19-Oct-24	21-Oct-24			-33	Install new road lighting
	Install new traffic signal post	2 19-Oct-24		07-Sep-24	· ·	-33	Install new traffic signal post
	Lay kerb and paving block	13 22-Oct-24	05-Nov-24	-	-	-33	Lay kerb and paving block
Traffic Island No.2		24 08-Oct-24		20-Aug-24	-	-33	
	Remove temporary pavement	5 08-Oct-24		20-Aug-24		-40	Remove temporary pavement
	Install new traffic signal post	2 17-Oct-24		28-Aug-24		-40	■ Install new traffic signal post
	Lay kerb and paving block	15 19-Oct-24		07-Sep-24		-33	Lay kerb and paving block
Traffic Island No.3		24 08-Oct-24	05-Nov-24	20-Aug-24	25-Sep-24	-33	
							Drimany Recelling 3 Months Rolling Programme





Three Months Rolling Programme (Data Date : 08-Oct-24)
Period: 08-Oct-24 to 08-Jan-2025

Page: 8 of 16

 Primary Baseline
Actual Work
Remaining Work
Critical Remaining Work
Milestone

	3 Months Rolling	g Programme	
Date	Revision	Checked	Approved
08-Jan-23	Rev.2.1k	DL	RP/RS
22-Aug-23	Rev.3.0b	SLX	RP/RS
14-Dec-23	Rev.3.0d	SLX	RP/RS
27-May-24	Rev.3.0e	SLX	RP/RS

Development of Lok Ma Chau Loop: Main Works Package 1 - Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling/San Tin Highway and Direct Road Link Phase 1

A of the ID	IA 6 2 Norm	A4Completes Ctod	Finish	II ata Ota d	I ata Ciniala	TabilDaad	at 2024 2025
Activity ID	Activity Name	At Completion Start Duration	Finish	Late Start	Late Finish	Total Float	102 102 103 104 105
S2A.PH.A100048	Remove temporary pavement	5 08-Oct-24	14-Oct-24	20-Aug-24	24-Aug-24	-40	
	Relocate directional sign	4 15-Oct-24	18-Oct-24	26-Aug-24		-40	
	Install new road lighting	2 19-Oct-24	21-Oct-24	07-Sep-24	_	-33	
	Install new traffic signal post	2 19-Oct-24	21-Oct-24	30-Aug-24	31-Aug-24	-40	─
	Lay kerb and paving block	13 22-Oct-24	05-Nov-24	10-Sep-24		-33	
Traffic Island LMC	ļ · · · ·	12 31-Oct-24	13-Nov-24	11-Sep-24		-40	, ······
	Remove temporary pavement	5 31-Oct-24		11-Sep-24	-	-40	Remove temporary pavement
	Lay kerb and paving block	5 06-Nov-24	11-Nov-24	17-Sep-24	-	-40	Nomero temperary parement
	Install new traffic signal post	2 12-Nov-24		24-Sep-24		-40	Lay Korb and paving blook
Traffic Island LMC		12 31-Oct-24	13-Nov-24	•	25-Sep-24	-40	
	Remove temporary pavement	5 31-Oct-24	05-Nov-24	11-Sep-24	-	-40	
	Lay kerb and paving block	5 06-Nov-24	11-Nov-24	17-Sep-24	<u>-</u> -	-40	Training of parameter
	Install new traffic signal post	2 12-Nov-24		24-Sep-24		-40	Edy Kerb and paring block
Traffic Island LMC		12 31-Oct-24	13-Nov-24	11-Sep-24		-40	Thotal now traine signal poor
	Remove temporary pavement	5 31-Oct-24		11-Sep-24	-	-40	
	Lay kerb and paving block	5 06-Nov-24	11-Nov-24	17-Sep-24		-40	remove temporally pavement
	Install new traffic signal post	2 12-Nov-24	13-Nov-24	24-Sep-24		-40 -40	Lay not a na paring stook
Traffic Island LMC		12 31-Oct-24	13-Nov-24	-	25-Sep-24 25-Sep-24	-40 -40	Trotal now traine signal poor
	Remove temporary pavement	5 31-Oct-24	05-Nov-24	11-Sep-24	-	-40 -40	
		5 06-Nov-24		17-Sep-24		-40 -40	remove temporary pavement
	Lay kerb and paving block	2 12-Nov-24	11-Nov-24	· ·	· ·	-40 -40	Lay Kerb and paving block
	Install new traffic signal post		13-Nov-24	24-Sep-24	-	-	Install new traine signal post
Area 3 LCS	Washin	41 08-Oct-24	23-Nov-24	27-Aug-24		623	- • • •
DN700 Watermain		35 08-Oct-24	18-Nov-24	27-Aug-24		586	<mark>-</mark> :
	DN700 watermain (Stage 2 CPR W/B F/L)	14 08-Oct-24	24-Oct-24	27-Aug-24	-	-33	
	DN700 watermain (Stage 1 CPR E/B)	18 25-Oct-24	14-Nov-24	12-Sep-24		-33	
	DN700 watermain (Stage 3 CPR E/B FP)	21 25-Oct-24	18-Nov-24	22-Oct-26		586	
CLP Works	[4.7.42]	47 08-Oct-24	23-Nov-24	13-Sep-24		727	
	CLP 132kV cable duct laying (CPR W/B F/L)	7 08-Oct-24	14-Oct-24		15-Nov-26	762	
	CLP 132kV cable duct laying (CPR E/B FP)	7 22-Oct-24	28-Oct-24		19-Sep-24	-39	72 Total Country ing (CTT 2211)
	CLP 132 KV Cale duct laying (CPR W/B FP)	30 22-Oct-24	21-Nov-24	-	12-Oct-24	-39	on the same date and the same of the same date and the same date a
	CLP 132 KV Cale duct laying (CPR W/B SL)	5 19-Nov-24	23-Nov-24		20-Nov-26	727	
Lighting and Road		40 08-Oct-24	23-Nov-24	-	20-Nov-26	586	-
	Road lighting ducting and drawpit	7 08-Oct-24	16-Oct-24	13-Nov-26		619	Trocked lightling descring and drawpit.
	Construct directional sign footing	7 08-Oct-24		04-Sep-24		-27	
	Traffic signal ducting and drawpit	5 14-Oct-24	19-Oct-24	16-Nov-26		616	- The state of the
	Traffic signal duct across carriageway (13 stages night work)	5 28-Oct-24		20-Sep-24	-	-31	
	FNO duct across carriageway (13 stages night work)	5 28-Oct-24	02-Nov-24	· ·	· ·	-31	
	Lay kerb and paving block	14 28-Oct-24		20-Sep-24		-31	
	Install new traffic signal post	7 08-Nov-24		13-Nov-26		592	I I I I I I I I I I I I I I I I I I I
	Install new road lighting	7 15-Nov-24		13-Nov-26		586	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	orks-Completion of the Works at Junction of Castle Peak Road and Lok Ma Chau Road	140 14-Aug-24 A	23-Jan-25	13-Jun-24		571	<u> </u>
S2B.KD.1010	Planned completion of Section 2B of the works	0	22-Nov-24		14-Sep-24	-59	⊒ i I i i i i i i i i i i i i i i i i i
	mp Cycle Track and Road Widening at CP Road (Delay Event #3)	51 14-Aug-24 A	15-Oct-24	14-Nov-26		623	
S01.DE03.2	Road Widening of CP Road for construction of ST01-P01 (Delay Event #3 Part 2) (PMI#20/CE#009)	51 14-Aug-24 A	15-Oct-24	14-Nov-26	20-Nov-26	623	Road Widening of CP Road for construction of ST01-P01 (Delay Event #3 Part 2) (PMI#20/CE#
Proposed EIBC to e	exisitng Box Culvert (PMI #44 request for quotation)	75 28-Sep-24 A	24-Dec-24	16-Aug-24	28-Oct-25	264	4
	vert Structure Construction	75 28-Sep-24 A		16-Aug-24		264	
<u> </u>	ction of Integrated Structure	34 28-Sep-24 A	06-Nov-24	_		-45	<u> </u>
Wall and Top Slal	-	34 28-Sep-24 A		16-Aug-24	-	-45	5
Wall & Top Slab		34 28-Sep-24 A	06-Nov-24	_	-	-45	
					•		· · · · · · · · · · · · · · · · · · ·
	The	oo Monthe Dolling D	ио сио те	(Data D	ata . 00 C)at 24)	Primary Baseline 3 Months Rolling Programme





Three Months Rolling Programme (Data Date : 08-Oct-24)
Period: 08-Oct-24 to 08-Jan-2025

Page: 9 of 16

	_	Primary Baseline
		Actual Work
		Remaining Work
		Critical Remaining Work
•	•	Milestone

3 Months Rolling Programme									
Date	Revision	Checked	Approved						
)8-Jan-23	Rev.2.1k	DL	RP/RS						
22-Aug-23	Rev.3.0b	SLX	RP/RS						
14-Dec-23	Rev.3.0d	SLX	RP/RS						
27-May-24	Rev.3.0e	SLX	RP/RS						

Development of Lok Ma Chau Loop: Main Works Package 1 - Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling/San Tin Highway and Direct Road Link Phase 1

vity ID	Activity Name	At Completion Start Duration	Finish	Late Start	Late Finish	Total Float		2024 Odbber November December	January	February
S2B FIBC 1390	Construction of Wall and Top Slab Bay 2	29 28-Sep-24 A	31-Oct-24	16-Aug-24	09-Sep-24	-45	29	06 13 20 27 03 10 17 24 01 08 15 22 Construction of Wall and Top Slab Bay 2	29 05 12 19	26 02 09
	Remove external formworks and Backfill to underside with mass concrete	5 01-Nov-24	06-Nov-24	10-Sep-24	-	-45	-	Remove external formworks and Backfil	to underside with ma	ss concrete
	uction of Cantilever Slab	41 07-Nov-24	24-Dec-24	11-Sep-25		264		Transve externation works and backing	lio di dei side Willi I i i a	
S2B.EIBC.1420	Remove Strut S1 and Cut sheet Pile (north side) for construction of Cantilever slab	3 07-Nov-24	09-Nov-24	11-Sep-25		264	:	Remove Strut S1 and Cut sheet Pile (north side) for constru	tion of Cantilev
S2B.EIBC.1430	Open cut excavation to formation level for construction of Cantilever Slab	3 11-Nov-24	13-Nov-24	15-Sep-25	· ·	264	:	Open cut excavation to formation le		
S2B.EIBC.1440	Blinding layer to Cantilever Slab	1 14-Nov-24	14-Nov-24	18-Sep-25		264		Blinding layer to Cantilever Slab		
S2B.EIBC.1450	Formworks, Rebar & Cast Cantilever slab bay 1	7 14-Nov-24	21-Nov-24	18-Sep-25		264		Formworks, Rebar & Cast C	antilever slah hav 1	2 2 2 3
S2B.EIBC.1460	Formworks, Rebar & Cast Cantilever slab bay 2	7 22-Nov-24		26-Sep-25		264		Formworks, Rebar & C		¦ nv 2
S2B.EIBC.1470	Backfill to ground level (compaction and testing) (assumed 5 layers at 1 wk per layer)	14 30-Nov-24		04-Oct-25		264		· · · · · · · · · · · · · · · · · · ·	ground level (compa	- 1
S2B.EIBC.1410	Remove Concrete Blocks (Overflow Barrier)	6 17-Dec-24	23-Dec-24	22-Oct-25	28-Oct-25	265			nove Concrete Blocks	
S2B.EIBC.1480	Remove sheet pile on the south side & reinstate area	7 17-Dec-24		21-Oct-25		264			move sheet pile on the	
Modification to Nul	·	93 08-Oct-24	23-Jan-25	16-Dec-24		238			inovo orioot piio ori ait	
Modification of Nu	ullah to Facilitate Construction FBP-03	93 08-Oct-24	23-Jan-25	16-Dec-24		69				
S2B.NM.2050	Block half of Nullah to Facilitate Expansion of Nullah on the North-East Wall	6 08-Oct-24	14-Oct-24	16-Dec-24	21-Dec-24	59		Block half of Nullah to Facilitate Expansion of Nullah on the	North-Fast Wall	:
S2B.NM.2110	Substructure (Pilecap) for FBP-03 Completed	0	15-Oct-24		24-Feb-25	113		Substructure (Pilecap) for FBP-03 Completed	Horri Last Wall	1 1 1
S2B.NM.2060	Install Sheet Pile and Demolish North-East Wall	20 15-Oct-24	06-Nov-24	23-Dec-24		59	:	Install Sheet Pile and Demolish North-Ea	et Wall	: : :
S2B.NM.2120	Construction of Modified Nullah with Cantilever Wall	42 16-Oct-24	03-Dec-24	25-Feb-25		113			ified Nullah with Cant	lever Wall
S2B.NM.2070	Excavate and Modification Works to North-East Base Slab & Wall (2 bays)	41 07-Nov-24	24-Dec-24	15-Jan-25		59			avate and Modificatio	
S2B.NM.2080	Move Blocks to West Wall and Divert Water to North-East Side	6 25-Dec-24		04-Mar-25		59			Move Blocks to We	
S2B.NM.2090	Demolish existing West Wall and Bacfill to form a Platform	20 01-Jan-25	23-Jan-25	11-Mar-25		59			•	emolish existing
	cation Works to Nullah	0 03-Dec-24	03-Dec-24	03-Apr-25		104				enionen existinç
S2B.NM.2130	Integrated Structure Completed	0 03-Dec-24	00-000-24	03-Apr-25	00-71pi-20	104		◆ Integrated Structure	Completed	
	Vall (Top level 6.3mPD)	36 04-Dec-24	14-Jan-25		28-Oct-25	246				
Proposed Flood V	_ ` · ·	30 04-Dec-24	07-Jan-25		28-Oct-25	252				
S2B.NM.3000	Commence Proposed Flood Wall	0 04-Dec-24	01-0411-20	23-Jul-25	20-001-20	198		◆ Commence Propos	sed Flood Wall	:
S2B.NM.3050	Install Sheet Pile	6 04-Dec-24	10-Dec-24		29-Jul-25	198				:
S2B.NM.3060	ELS Works and Excavation	12 11-Dec-24	24-Dec-24	30-Jul-25	12-Aug-25	198		Install Sheet F	i .	1 1 1
S2B.NM.3070	Construct Proposed Flood Wall Bay 1 (incl. blinding)	7 25-Dec-24		20-Sep-25		231		EL	Works and Excavat	
S2B.NM.3080	Remove Sheet Pile, Backfill and Reinstate Working Area	5 02-Jan-25	07-Jan-25	23-Oct-25	-	252	:		Construct Propose	1
Proposed Flood V	· · · · · ·	18 25-Dec-24	14-Jan-25	13-Aug-25		198			Remove Shee	t Pile, Backtili a
S2B.NM.3090	Install Sheet Pile	6 25-Dec-24	31-Dec-24	13-Aug-25		198			landali Ohard Dila	1 1 1
S2B.NM.3100	ELS Works and Excavation	12 01-Jan-25	14-Jan-25	20-Aug-25		198			Install Sheet Pile	
		30 04-Dec-24		20-Aug-25 23-Jul-25	-	252			ELS WO	ks and Excava
Proposed Flood V S2B.NM.3130	Install Sheet Pile	6 04-Dec-24		23-Jul-25	29-Jul-25					
S2B.NM.3140	ELS Works and Excavation	12 11-Dec-24			12-Aug-25	198 198		Install Sheet F	1	
S2B.NM.3150	Construct Proposed Flood Wall Bay 3	7 25-Dec-24		20-Sep-25	_	231		ELV	S Works and Excavat	i
S2B.NM.3160	Remove Sheet Pile, Backfill and Reinstate Working Area	5 02-Jan-25		20-Sep-25 23-Oct-25	-	251		_	Construct Propose	:
	•	18 25-Dec-24	14-Jan-25	13-Aug-25		198			Remove Shee	t Pile, Backtill a
Proposed Flood V S2B.NM.3170	Install Sheet Pile	6 25-Dec-24	31-Dec-24	13-Aug-25	-	198	:			1 1 1
S2B.NM.3180	ELS Works and Excavation	12 01-Jan-25		20-Aug-25	_	198		_	Install Sheet Pile	
				20-Aug-25 13-Jun-24	· · · · · · · · · · · · · · · · · · ·				ELS Wo	ks and Excava
	Norks, Water Mains, and Other Utilities at Junction of LMC Road & Castle Peak Road	61 04-Oct-24 A	13-Dec-24			273			1	1 1 1
	g Underground Utilities	31 08-Oct-24	13-Nov-24	10-Aug-24		-48		······		
S2B1095	Implement TTA (series of Sub TTA required)	1 08-Oct-24	08-Oct-24	10-Aug-24		-48		Implement TTA (series of Sub TTA required)		
S2B1090	Shift or Hang Utilities	30 09-Oct-24	13-Nov-24	12-Aug-24	-	-48		Shift or Hang Utilities		
	6.580 to Ch.0.0) (136.6m)	61 04-Oct-24 A	13-Dec-24	13-Jun-24		273				0.00 /5= ::
S2A.Z6.6660.10	ELS Works, Install DN700 at Castle Peak Road (Ch.+63.480 to Ch.+0.0) (63.48m)	26 04-Oct-24 A	02-Nov-24	13-Jun-24	09-Jul-24	-100	=	ELS Works, Install DN700 at Castle Peak F ◆ Installation Complete (Submit WWO46 Par		
S2A.Z6.6700	Installation Complete (Submit WWO46 Part IV) Application for Final Inspection	0 44 04 Nov 24	02-Nov-24	40 1.4 04	09-Jul-24	-97			·	iai ii iopectiui I
S2A.Z6.6700.10	WSD/WA Final Inspection (within 14 days)	14 04-Nov-24	19-Nov-24	18-Jul-24	02-Aug-24	-90		WSD/WA Final Inspection (wit ◆ WA issues WWO 46 Part V(a	hin 14 days) v	: : :
S2A.Z6.6700.15	WA issues WWO 46 Part V(a)	0	19-Nov-24		02-Oct-25	272	:	▼ WAIssues WWO 46 Part V(a	i	\M∕orko
S2A.Z6.6610	Planned achievement of Key Date KD-3 of the Works	0	27-Nov-24		02-Aug-24	-117		▼ marined achievement of	rey Date ND-3 of the	VVOIKS
		/m		<i>(</i> D : 7				Primary Rasalina 3 M	onths Rolling Program	nme
		Three Months Rolling Pr	rogramme	(Data Da	ate : 08-O	ct-24)		Date Date	evision Check	
土木工程		Period: 08-0) at 21 to 0	0 Ian 20	25			Actual Work 08-Jan-23 Rev 2		RP/R





Period: 08-Oct-24 to 08-Jan-2025

Page: 10 of 16

	Primary Baseline
	Actual Work
	Remaining Work
	Critical Remaining Work
• •	Milestone

3 Months Rolling Programme							
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22-Aug-23	Rev.3.0b	SLX	RP/RS				
14-Dec-23	Rev.3.0d	SLX	RP/RS				
27-May-24	Rev.3.0e	SLX	RP/RS				

Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling/San Tin Highway and Direct Road Link Phase 1

tivity ID	Activity Name	At Completion Start Duration	Finish	Late Start	Late Finish	Total Float	. 2024 2025 Odober November December January Fe
S2A.Z6.6670	Backfill and Reinstate Road	21 04-Nov-24	27-Nov-24	10-Jul-24	02-Aug-24		22 29 06 13 20 27 03 10 17 24 01 08 15 22 29 05 12 19 26 02
						-97	Datition and 1 to motate 1 to a
S2A.Z6.6700.20 S2A.Z6.6700.30	Carry-out Disinfection, Systematic Flushing and Water Sampling	14 20-Nov-24	05-Dec-24	03-Oct-25 21-Oct-25		257	
	Submit Water Test Results / WA Issues WWO46 Part V(b)	7 06-Dec-24 14 08-Oct-24	13-Dec-24			257 -31	
S2B2130	ers) (Approx 237m)		24-Oct-24	30-Aug-24	-		
	Gas Main along Lok Ma Chau Road to Castle Peak Road (40m)	4 08-Oct-24 1 14-Oct-24	12-Oct-24	_	03-Sep-24 04-Sep-24	-31	9
S2B2140	Implement TTA Stage 5		14-Oct-24		09-Sep-24	-31 -31	I mpomon in totage o
S2B2150	Gas Main along Lok Ma Chau Road to Castle Peak Road (40m)	4 15-Oct-24	18-Oct-24			-	
S2B2280	Implement TTA Stage 6	1 19-Oct-24	19-Oct-24	10-Sep-24		-31	Ibeside a
S2B2290	Gas Main along Lok Ma Chau Road to Castle Peak Road (37m)	4 21-Oct-24	24-Oct-24		14-Sep-24	-31	
	kv Ducts & Cables	14 08-Oct-24	24-Oct-24	_	06-Sep-24	-38	
CLP 132 kv Duct		14 08-Oct-24	24-Oct-24		06-Sep-24	-38	1 : 1 : :
S2B2200	Install CLP 132KV Ducting at juntion of LMC and CP Road (40m)	4 08-Oct-24	12-Oct-24	_	26-Aug-24	-38	+
S2B2190	Implement TTA Stage 4 (Crossing CP road)	1 14-Oct-24	14-Oct-24	27-Aug-24		-38	and an arrange of the same,
S2B2210	Install CLP 132KV Ducting at juntion of LMC and CP Road (Road Crossing at Castle Peak Road)		18-Oct-24		31-Aug-24	-38	in blan of hours gar, planting at and of hour (hour choice)
S2B2300	Implement TTA to Footpath	1 19-Oct-24	19-Oct-24	· ·	02-Sep-24	-38	
S2B2310	Install CLP 132KV Ducting at Castle Peak Rd Footpath (Remaining)	4 21-Oct-24	24-Oct-24		06-Sep-24	-38	Install CLP 132KV Ducting at Castle Peak Rd Footpath (Remaining)
CLP 11kv (approx		10 08-Oct-24	19-Oct-24		06-Sep-24	-34	
S2B2400	Implement TTA Stage 3 (Road Crossing)	1 08-Oct-24	08-Oct-24	27-Aug-24		-34	Implement TTA Stage 3 (Road Crossing)
S2B2410	Install CLP 11kv Cable at juntion of LMC and CP Road (30m)	4 09-Oct-24	14-Oct-24	28-Aug-24	31-Aug-24	-34	Install CLP 11kv Cable at juntion of LMC and CP Road (30m)
S2B2420	Implement TTA Stage 4 (Crossing CP road)	1 15-Oct-24	15-Oct-24	02-Sep-24	02-Sep-24	-34	
S2B2430	Install CLP 11kv Cable at juntion of LMC and CP Road (33m)	4 16-Oct-24	19-Oct-24	03-Sep-24	06-Sep-24	-34	Install CLP 11kv Cable at juntion of LMC and CP Road (33m)
Telecom Duct Wo	rks (By Others) (approx 237m)	10 08-Oct-24	19-Oct-24	21-Aug-24	31-Aug-24	-39	
S2B2320	Implement TTA Stage 5	1 08-Oct-24	08-Oct-24	21-Aug-24	21-Aug-24	-39	Implement TTA Stage 5
S2B2330	Telecom Duct within Lok Ma Chau Road/Castle Peak Road junction (40m)	4 09-Oct-24	14-Oct-24	22-Aug-24	26-Aug-24	-39	Telecom Duct within Lok Ma Chau Road/Castle Peak Road junction (40m)
S2B2340	Implement TTA Stage 6	1 15-Oct-24	15-Oct-24	27-Aug-24	27-Aug-24	-39	
S2B2350	Telecom Duct within Lok Ma Chau Road/Castle Peak Road junction (37m)	4 16-Oct-24	19-Oct-24	28-Aug-24	31-Aug-24	-39	
Road Works and F	Footpath at Portion 10	40 08-Oct-24	22-Nov-24	31-Jul-24	14-Sep-24	-59	
Road Works at No	orth Side of Castle Peak Road	14 09-Oct-24	24-Oct-24	30-Aug-24	14-Sep-24	-34	
S2A.Z6.6640	Backfill, Road Formation/Road Widening and Paving Works	14 09-Oct-24	24-Oct-24	30-Aug-24	14-Sep-24	-34	Backfill, Road Formation/Road Widening and Paving Works
Road Works at So	outh Side of Castle Peak Road	40 08-Oct-24	22-Nov-24	31-Jul-24	14-Sep-24	-59	
S2A.Z6.6710	Backfill, Road Formation/Road Widening and Paving Works	28 08-Oct-24	08-Nov-24	31-Jul-24	31-Aug-24	-59	Backfill, Road Formation/Road Widening and Paving Works
S2A.Z6.6720	Footpath, Hardscape and Landscape Works (within Portion 10 area)	22 29-Oct-24	22-Nov-24	21-Aug-24	14-Sep-24	-59	
Section 2C of the W	Vorks- Completion of Substructure and Piling Works of ST01 and CTFB	202 31-May-24 A		_	20-Nov-26	573	
S02C840	Planned completion of Section 2C of the works	0	28-Dec-24	•	20-Nov-26	593	◆ Planned completion of Section :
S2C.KD.1010	Completion Substructures and Piling works of ST01 and CTFB within Portion 1,5,7 and 10 of the	Site 0	28-Dec-24		20-Nov-26	593	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Substructure and F	Piling Works for Bridge ST01	195 31-May-24 A	13-Jan-25	19-Sep-24	03-Jan-25	-8	
Piling Works		145 31-May-24 A	21-Nov-24	02-Oct-24	18-Nov-24	-3	
Installation of bor	red piles for Pier ST01-P01	145 31-May-24 A	21-Nov-24	02-Oct-24	18-Nov-24	-3	
S02CP3535	Piling Platform Erection	114 31-May-24 A	16-Oct-24	02-Oct-24	09-Oct-24	-5	Piling Platform Erection
S02CP3540	Installation of bored piles for Pier ST01-P01 (2 nos) (CSD changed to 1 bored pile)	21 17-Oct-24	09-Nov-24	10-Oct-24	04-Nov-24	-5	Installation of bored piles for Pier ST01-P01 (2 nos) (CSD changed to
S02CP3560	Sonic test and interface core	3 19-Nov-24	21-Nov-24	15-Nov-24	18-Nov-24	-3	Sonic test and interface core
Pilehead Treatmen	nt,Pile Cap and Pier/Abutment Construction	115 02-Sep-24 A	13-Jan-25	19-Sep-24	03-Jan-25	-8	-
At Pier ST01-P01		35 11-Nov-24	20-Dec-24	05-Nov-24	14-Dec-24	-5	
S02CP3990	Installation of ELS	6 11-Nov-24	16-Nov-24	05-Nov-24	11-Nov-24	-5	Installation of ELS
S02CP4000	Excavation and pilehead treatment	6 18-Nov-24	23-Nov-24	12-Nov-24	18-Nov-24	-5	Excavation and pilehead treatment
S02CP4010	Construction of pile cap	7 27-Nov-24		21-Nov-24	28-Nov-24	-5	↑ :
S02CP4020 Construction of pier		14 05-Dec-24	20-Dec-24	29-Nov-24		-5	
At Abutment ST01-B01		77 04-Sep-24 A	02-Dec-24		02-Dec-24	0	33,54,555,75
S02CP3940	Installation of ELS	32 04-Sep-24 A		08-Oct-24		0	Installation of ELS
							3 Months Polling Programmo
		Three Months Rolling P	rogramme	e (Data D	ate : 08-C	oct-24)	Date Pavision Charked Ar
CEDD 土木工程	FDD 土木工程拓展署 中國路橋工程有限責任公司		Oct-24 to 0	08-Jan-20	25		O8-Jan-23 Rev 2 1k DI RP
-	ngineering and CHINA ROAD AND BRIDGE CORPORATION						Remaining Work 22-Aug-23 Rev.3.0b SLX RP
	pment Department	Page: 11 of 16					Critical Remaining Work 14-Dec-23 Rev.3.0d SLX RP.
							♦ Milestone 27-May-24 Rev.3.0e SLX RP.
							27-May-24 Rev.3.0e SLX RI

Development of Lok Ma Chau Loop: Main Works Package 1 - Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling/San Tin Highway and Direct Road Link Phase 1

ctivity ID	Activity Name	AtCompletion Start Duration	Finish	Late Start	Late Finish	Total Float	2024 October November December	2025 January	February
S02CP3950	Excavation and pilehead treatment	7 11-Oct-24	18-Oct-24	11-Oct-24	18-Oct-24	22 29	06 13 20 27 03 10 17 24 01 08 15 22	2 29 05 12 19 26	02 09 16
S02CP3930 S02CP3960	Construction of half pile cap and half Box Culvert Structure	12 19-Oct-24	01-Nov-24		01-Nov-24	0	Excavation and pilehead treatment	0.1.101	
S02CP3960 S02CP3970	Construction of remaining pile cap and Box Culvert Structure	12 02-Nov-24	15-Nov-24	02-Nov-24		0	Construction of half pile cap and half Bo	: :	
S02CP3980	Construction of abutment wall B01	12 02-Nov-24 14 16-Nov-24	02-Dec-24		02-Dec-24	0	Construction of remaining pile		ire
At Abutment ST		84 08-Oct-24	13-Jan-25		03-Jan-25	-8	Construction of a	abutment wall B01	
S02CP4190	Installation of ELS	7 08-Oct-24	15-0at-25 15-Oct-24		05-Jan-25 05-Oct-24	-8			
S02CP4190 S02CP4200		14 16-Oct-24	31-Oct-24	07-Oct-24		-o -8	Installation of ELS		
S02CP4200 S02CP4210	Excavation and pilehead treatment			23-Oct-24		-o -8	Excavation and pilehead treatment		1 1 1
	Construction of pile cap	28 01-Nov-24	03-Dec-24 13-Jan-25	23-Oct-24 03-Dec-24		ļ <u> </u>	Construction of		
S02CP4220	Construction of abutment	28 12-Dec-24				-8		Construction	of abutment
At Pier ST01-P09		45 05-Oct-24 A	26-Nov-24	04-Oct-24		-3			
S02CP4160	Excavation and pilehead treatment	10 05-Oct-24 A	16-Oct-24	04-Oct-24	12-Oct-24	-3	Excavation and pilehead treatment		
S02CP4170	Construction of pile cap	10 17-Oct-24	28-Oct-24		24-Oct-24	-3	Construction of pile cap		
S02CP4180	Construction of pier	25 29-Oct-24		25-Oct-24		-3	Construction of pier		
At Pier ST01-P08		67 02-Sep-24 A	18-Nov-24	28-Oct-24		17			
S02CP4100	Excavation and pilehead treatment	36 02-Sep-24 A	12-Oct-24		01-Nov-24	17	Excavation and pilehead treatment		1 1 1
S02CP4130	Construction of pile cap	10 14-Oct-24	24-Oct-24		13-Nov-24	17	Construction of pile cap		
S02CP4140	Construction of pier	21 25-Oct-24	18-Nov-24		07-Dec-24	17	Construction of pier		1 1 1 1
At Pier ST01-P07		57 06-Sep-24 A	11-Nov-24	-	23-Oct-24	-16			
S02CP4080	Excavation and pilehead treatment	29 06-Sep-24 A	09-Oct-24		20-Sep-24	-16	Excavation and pilehead treatment		
S02CP4110	Construction of pile cap	7 10-Oct-24	17-Oct-24	21-Sep-24	· ·	-16	Construction of pile cap		
S02CP4120	Construction of pier	21 18-Oct-24	11-Nov-24	30-Sep-24		-16	Construction of pier		
Construction of I	DK-01 Pier (after completion of integrated structure)	23 01-Nov-24	27-Nov-24	06-Nov-24	02-Dec-24	4			
S02CP4230	Erect Working Platform for DK01	7 01-Nov-24	08-Nov-24	06-Nov-24	13-Nov-24	4	Erect Working Platform for DK01		
S02CP4260	Construction of pier DK01	16 09-Nov-24	27-Nov-24	14-Nov-24	02-Dec-24	4	Construction of pier	DK01	
Substructure and	Piling Works for CTFB	170 07-Jul-24 A	21-Jan-25	11-Oct-24	14-Apr-25	71			
Pilehead Treatme	nt,Pile Cap and Pier/Abutment Construction	170 07-Jul-24 A	21-Jan-25	11-Oct-24	14-Apr-25	71			
At Abutment FB	4-02	56 08-Oct-24	11-Dec-24	11-Oct-24	14-Dec-24	3			1 1 1
S02C1160	Installation of ELS	7 08-Oct-24	15-Oct-24	11-Oct-24	18-Oct-24	3	Installation of ELS		
S02C1165	Excavation and pilehead treatment	14 16-Oct-24	31-Oct-24	19-Oct-24	04-Nov-24	3	Excavation and pilehead treatment		
S02C1170	Construction of pile cap	14 01-Nov-24	16-Nov-24	05-Nov-24	20-Nov-24	3	Construction of pile cap		
S02C1180	Construction of pier FBA-02	21 18-Nov-24	11-Dec-24	21-Nov-24	14-Dec-24	3	Construc	tion of pier FBA-02	1 1 1
At Abutment FB/	A-01 (Changed to Socket-H-piles 8 nos.)	35 12-Dec-24	21-Jan-25	05-Mar-25	14-Apr-25	71			
S02C1060	Installation of ELS	7 12-Dec-24	19-Dec-24	05-Mar-25	12-Mar-25	71	Ins	tallation of ELS	
S02C1065	Excavation and pilehead treatment	14 20-Dec-24	04-Jan-25	13-Mar-25	28-Mar-25	71		Excavation and pile	ehead treatmen
S02C1070	Construction of pile cap	14 06-Jan-25	21-Jan-25	29-Mar-25	14-Apr-25	71			uction of pile ca
At Pier FBP-03		86 07-Jul-24 A	15-Oct-24	22-Jan-25	29-Jan-25	91			•
S02C1050	Construction of pier FBP-03	86 07-Jul-24 A	15-Oct-24	22-Jan-25	29-Jan-25	91	Construction of pier FBP-03		
At Pier FBP-04		28 01-Nov-24	03-Dec-24	25-Nov-24	01-Mar-25	76			
S02C800	Erection of Working Platform for FBP-04	7 01-Nov-24	08-Nov-24	25-Nov-24	02-Dec-24	20	Erection of Working Platform for FI	3P-04	
S02C810	Construction of pier FBP-04	21 09-Nov-24	03-Dec-24	06-Feb-25		76	Construction of		1 1 1 1
At Pier FBP-05		71 08-Oct-24	28-Dec-24	06-Dec-24	26-Feb-25	51	33.53.53.63		
S02C812	Installation of ELS	12 08-Oct-24*	21-Oct-24	06-Dec-24	19-Dec-24	51	Installation of ELS		
S02C813	Excavation and pilehead treatment	12 22-Oct-24	04-Nov-24	20-Dec-24		51	Excavation and pilehead treatment		
S02C814	Construction of pile cap	12 05-Nov-24		03-Jan-25		51	Construction of pile cap		
S02C815	Backfill and Reinstate Nullah Structure at Pier FBP-05 (Including Dimantle Bore Piling			17-Jan-25		51		e Nullah Structure at Pier FBI	P-05 (Including
S02C816	Construction of pier	28 27-Nov-24		25-Jan-25		51	Dackilli aliu Neli Stati	Construction of pier	oo (ii lolduli ig
CTFB Approach F	·	27 12-Dec-24	11-Jan-25		31-Jan-25	17		- COLOR GOLORI OF PICE	
AP02 (South) Ap		27 12-Dec-24	11-Jan-25		31-Jan-25	17			1 1 1 1
AP02 Ramp Bay		27 12-Dec-24	11-Jan-25		31-Jan-25	17			
AP02 - Bay 1 (3		23 12-Dec-24		16-Dec-24		21			
A1 02 - Day 1 (0	or orient)	20 12 000 24	07 0011 20	10 000 24	01 0411 20			1	1
		Three Months Rolling Pr	ngramma	(Data D	ate · NQ_O	oct_24)	Primary Baseline	3 Months Rolling Programme	e
6		<u> </u>	_	•		Ct 24)	Actual Work Date	Revision Checked	
	₽ 中國路榜工程有阻責任公司	Period: 08-C	oct-24 to U	ง-Jan-20	125		Remaining Work 08-Jan-23 Re		RP/RS
	ngineering and CHINA ROAD AND BRIDGE CORPORATION	Pag	ge: 12 of 1	16			Critical Deposition World		RP/RS
> Develo	pment Department		-				14-Dec-23 Re		RP/RS
							♦ Milestone 27-May-24 Re	v.3.0e SLX	RP/RS

Development of Lok Ma Chau Loop: Main Works Package 1 - Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling/San Tin Highway and Direct Road Link Phase 1

Activity ID	Activity Name	At Completion Start	Finish	Late Start	Late Finish	Total Float		2024	2025	
round in	The try Full C	Duration	T IIIISI	Luic Ouit	Luis i illoii		1 29 1	October November December	January 29 05 12 19 26	February
S02C.1010	UU Detection / Trial Pit / UU Shifting (if any)	1 12-Dec-24	12-Dec-24	16-Dec-24	16-Dec-24	3	1 20 1		ction / Trial Pit / UU Shifting	
S02C.1020	Sheet Piling	1 13-Dec-24	13-Dec-24	17-Dec-24	17-Dec-24	3		" Sheet P	-	
S02C.1030	Excavation to formation level	2 14-Dec-24	16-Dec-24	18-Dec-24	19-Dec-24	3			ation to formation level	1 1 1 1
S02C.1040	Blinding 75mm thick	1 17-Dec-24	17-Dec-24	20-Dec-24	20-Dec-24	3			ng 75mm thick	
S02C.1050	Cast Base Slab (1m thick)	6 18-Dec-24	24-Dec-24	21-Dec-24	27-Dec-24	3		· · · · · · · · · · · · · · · · · · ·	Cast Base Slab (1m thick)	1 1 1 1
S02C.1060	Cast Stem Walls (Part 1 Lower level) (Ribbed finish to external walls to 1m below F.G.L.)	6 25-Dec-24	31-Dec-24	02-Jan-25	08-Jan-25	7			Cast Stem Walls (Pa	1
S02C.1070	Cast Stem Walls (Part 2 Upper level)	4 01-Jan-25	04-Jan-25	16-Jan-25	20-Jan-25	13			Cast Stem Walls (i
S02C.1080	No Fine Concrete Drainage Layer to Internal Walls /150mm Perforated Drainage Pipes	2 06-Jan-25	07-Jan-25	30-Jan-25	31-Jan-25	21			No Fine Concre	:
AP02 - Bay 2	2 (12000mm)	26 13-Dec-24	11-Jan-25	19-Dec-24	17-Jan-25	5			T 110 1 III O COLLOR	
S02C.1090	UU Detection / Trial Pit / UU Shifting (if any)	1 13-Dec-24	13-Dec-24	19-Dec-24	19-Dec-24	5		- IIII Dete	ction / Trial Pit / UU Shifting	n (if any)
S02C.1100	Sheet Piling	2 14-Dec-24		20-Dec-24	21-Dec-24	5		Sheet		g (ii ciriy)
S02C.1110	Excavation to formation level	4 17-Dec-24	20-Dec-24	23-Dec-24		5			cavation to formation level	
S02C.1120	Blinding 75mm thick	1 21-Dec-24	21-Dec-24	27-Dec-24		5			nding 75mm thick	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
S02C.1130	Cast Base Slab (1m thick)	8 25-Dec-24	02-Jan-25	28-Dec-24		3		1.5	Cast Base Slab (1m	thick)
S02C.1140	Cast Stem Walls (Part 1 Lower level) (Ribbed finish to external walls to 1m below F.G.L.)	8 03-Jan-25	11-Jan-25		17-Jan-25	5			Cast Base Glab (III Cast Stem V	
	3 (12000mm)	25 14-Dec-24	11-Jan-25	28-Dec-24		3			Casi Sieili V	vans (Fait I LOV ;
S02C.1170	UU Detection / Trial Pit / UU Shifting (if any)	1 14-Dec-24	14-Dec-24		28-Dec-24	12	:	LILLDet	ootion / Triol Dit / LILL Shiftin	og (if opy)
S02C.1170	Sheet Piling	2 17-Dec-24	18-Dec-24	30-Dec-24		11		"	ection / Trial Pit / UU Shiftir et Piling	ig (ii al iy)
S02C.1190	Excavation to formation level	4 21-Dec-24	25-Dec-24	01-Jan-25		0		Siles		
S02C.1200	Blinding 75mm thick	1 26-Dec-24	26-Dec-24	06-Jan-25		0			Excavation to formation le	vei
S02C.1210	Cast Base Slab (1m thick)	8 03-Jan-25	11-Jan-25	07-Jan-25		3		1	Blinding 75mm thick	1 74 (1:1)
	4 (1200mm)	14 16-Dec-24		07-Jan-25		13			Cast Base S	iab (1m tnick)
S02C.1250	UU Detection / Trial Pit / UU Shifting (if any)	1 16-Dec-24	16-Dec-24	07-Jan-25		19		III.D		r:
S02C.1250	Sheet Piling	2 19-Dec-24	20-Dec-24	07-Jan-25		17			etection / Trial Pit / UU Shift	ung (ir any)
S02C.1200	Excavation to formation level	4 26-Dec-24	30-Dec-24		14-Jan-25	13			eet Piling	
S02C.1270		1 31-Dec-24	31-Dec-24		15-Jan-25	13		I	Excavation to formation	on level
	Blinding 75mm thick	17 17-Dec-24	04-Jan-25		24-Jan-25	17			Blinding 75mm thick	1 1 1 1
	5 (12000mm)									
S02C.1330 S02C.1340	UU Detection / Trial Pit / UU Shifting (if any)	1 17-Dec-24 2 21-Dec-24	17-Dec-24 23-Dec-24	16-Jan-25 17-Jan-25		26			etection / Trial Pit / UU Shi	fting (if any)
	Sheet Piling			20-Jan-25		23		□ `	Sheet Piling	: : :
S02C.1350	Excavation to formation level	4 31-Dec-24	03-Jan-25			17			Excavation to form	1
S02C.1360	Blinding 75mm thick	1 04-Jan-25	04-Jan-25	24-Jan-25		17			Blinding 75mm thic	ck
	Works- Completion of the works of Direct Road Link within Portion 1,2A,2B, 5 and 9	156 08-Aug-24 A	05-Feb-25	02-Aug-24		-12				
Piling Works	Developing for Pina PRI 1940	31 10-Sep-24 A		05-Sep-24		-24				
	Bored Piles for Pier DRL-P10	31 10-Sep-24 A	15-Oct-24	05-Sep-24		-24				1
Piling Works		31 10-Sep-24 A	15-Oct-24	-	17-Sep-24	-24				1
S031280	Installation of bored piles for Pier DRL-P10 (2 nos) (duration adjusted based on actual production rate)	28 10-Sep-24 A	11-Oct-24	05-Sep-24	09-Sep-24	-28		Installation of bored piles for Pier DRL-P10 (2 nos) (durati	on adjusted based on actua	al production rat
S031290	Interface core and sonic test	3 12-Oct-24	15-Oct-24	14-Sep-24	17-Sen-24	-24		Interface core and sonic test		
	ment and Construction of Pile Cap	135 27-Aug-24 A	30-Jan-25	02-Sep-24	-	-11	:	II Italiace core alla sollic test	1 1 1 1	1 1 1 1
At Pier DRL-P	·	21 12-Oct-24	05-Nov-24	10-Sep-24		-28		 		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
S031690	ELS and Excavation Works for Modification of Platform	7 12-Oct-24	19-Oct-24		17-Sep-24	-28		ELS and Excavation Works for Modification of Plat	orm	1 1 1 2
S031700	Pilehead treatment	7 21-Oct-24	28-Oct-24	· ·	25-Sep-24	-28		Pilehead treatment	Onn	1 1 1 1
S031710	Construction of pile cap	7 29-Oct-24		26-Sep-24		-28			1	1 1 1 1
At Pier DRL-P	· ·	55 27-Aug-24 A	29-Oct-24	02-Sep-24		-31		Construction of pile cap		1
S031870	Installation of ELS	41 27-Aug-24 A	12-Oct-24		06-Sep-24	-31		Installation of ELS		
S031880	Excavation and pilehead treatment	5 14-Oct-24		07-Sep-24		-31	:	Excavation and pilehead treatment		
S031890	Construction of pile cap	9 19-Oct-24		13-Sep-24		-31				
At Approach F	·	93 15-Oct-24		02-Oct-24		-11		Construction of pile cap	 	1
S032170	ELS Zone 1 & 2	21 15-Oct-24*		02-Oct-24		-11		FI 0 7 4 0 0		1 1 1 1
S032170 S031980	ELS Zone 3 & 4	32 08-Nov-24		26-Oct-24		-11		ELS Zone 1 & 2	2 9 4	: :
0001900	LLO ZOIR O Q T	JZ UU-11UV-Z4	14-060-24	20-001-24	02-060-24	-11	- !	ELS Zo	IE 3 & 4	1





Three Months Rolling Programme (Data Date : 08-Oct-24)
Period: 08-Oct-24 to 08-Jan-2025

Page: 13 of 16

	Primary Baseline
	Actual Work
	Remaining Work
	Critical Remaining Work
A	Milostopo

3 Months Rolling Programme							
Date	Revision	Checked	Approved				
8-Jan-23	Rev.2.1k	DL	RP/RS				
2-Aug-23	Rev.3.0b	SLX	RP/RS				
4-Dec-23	Rev.3.0d	SLX	RP/RS				
7-May-24	Rev.3.0e	SLX	RP/RS				

Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling/San Tin Highway and Direct Road Link Phase 1

D	Activity Name	At Completion Start	Finish	Late Start	Late Finish	Total Float	2024 2025 October November December January Febr
		Duration					29 06 13 20 27 03 10 17 24 01 08 15 22 29 05 12 19 26 02 0
S031990	Construction of base slab and Bottom Part of Hollow Strucure	40 16-Dec-24	30-Jan-25	03-Dec-24		-11	Constru
	Pier/Abutment Construction	91 08-Aug-24 A	21-Nov-24	_	08-Nov-24	-11	
S032080	Construction of pier DRL-P07 and backfill	45 22-Aug-24 A	12-Oct-24	· ·	07-Sep-24	-30	Construction of pier DRL-P07 and backfill
S032070	Construction of pier DRL-P06 and backfill	36 07-Sep-24 A	18-Oct-24		23-Sep-24	-22	Construction of pier DRL-P06 and backfill
S032090	Construction of pier DRL-P08 and backfill	18 30-Oct-24	19-Nov-24	24-Sep-24		-31	Construction of pier DRL-P08 and backfill
DRL-P09		16 08-Oct-24	25-Oct-24	19-Aug-24	05-Sep-24	-43	
S032040.10	Falsework Modification	2 08-Oct-24	09-Oct-24	19-Aug-24	20-Aug-24	-43	Falsework Modification
S032040.20	1st Wall stem construction works (4.8m height from top of Pile Cap)	7 10-Oct-24	17-Oct-24	21-Aug-24	28-Aug-24	-43	1st Wall stem construction works (4.8m height from top of Pile Cap)
S032040	Construction of pier DRL-P09 and backfill	16 08-Oct-24	25-Oct-24	19-Aug-24	05-Sep-24	-43	Construction of pier DRL-P09 and backfill
S032040.40	Final Pierhead Construction works (5.75m height)	7 18-Oct-24	25-Oct-24	29-Aug-24	05-Sep-24	-43	Final Pierhead Construction works (5.75m height)
ORL-P10		14 06-Nov-24	21-Nov-24	04-Oct-24	19-Oct-24	-28	
S032130.10	Falsework and Platform Modification	2 06-Nov-24	07-Nov-24	04-Oct-24	05-Oct-24	-28	Falsework and Platform Modification
S032130.20	1st Wall Stem Construction works (4.8m height from top of Pile Cap)	6 08-Nov-24	14-Nov-24	07-Oct-24	12-Oct-24	-28	1st Wall Stem Construction works (4.8m height from top of Pile Car
S032030	Construction of pierhead DRL-P10 and backfill	14 06-Nov-24	21-Nov-24	04-Oct-24	19-Oct-24	-28	Construction of pierhead DRL-P10 and backfill
S032130.40	Final Pierhead Construction Works(5.75m height)	6 15-Nov-24	21-Nov-24	14-Oct-24	19-Oct-24	-28	Final Pierhead Construction Works(5.75m height)
Abutment and Ap		82 08-Aug-24 A	11-Nov-24	05-Oct-24	08-Nov-24	-2	That I britade Constitution (c. rom riogni)
S032140	Construction of pier DRL-A01 and Cast Plinth	82 08-Aug-24 A	11-Nov-24	05-Oct-24		-2	Construction of pier DRL-A01 and Cast Plinth
uperstructure		144 22-Aug-24 A	05-Feb-25	02-Aug-24		-12	Construction of pier bit 2-Ao rand Cast r illitin
rection of Pierh	ead Segment	144 22-Aug-24 A	05-Feb-25	02-Aug-24		-57	
	ent At Pier DRL-P11	136 31-Aug-24 A	05-Feb-25		30-Nov-24	-57	
		80 05-Nov-24	05-Feb-25	30-Aug-24		-57	
Pierhead Segme	Falsework Erection for Pierhead						
S60700		7 05-Nov-24*	12-Nov-24	30-Aug-24	-	-57	Falsework Erection for Pierhead
S60710	Pierhead (precast shell P11D0) erection	6 13-Nov-24	19-Nov-24	07-Sep-24	· ·	-57	Pierhead (precast shell P11D0) erection
S60720	Falsework Erection for End Span Erection Works	7 20-Nov-24	27-Nov-24	-	21-Sep-24	-57	Falsework Erection for End Span Erection Works
S60730	In-situ diaphragm casting at Bridge E of Pier DRL-P11	28 28-Nov-24	30-Dec-24	23-Sep-24		-57	In-situ diaphragm casting at Brid
S60780	Traffic Portal and Falsework	32 31-Dec-24	05-Feb-25	25-Oct-24		-57	Tra
Pierhead Segme		62 31-Aug-24 A	11-Nov-24	02-Aug-24		16	
S60770	In-situ diaphragm casting at Bridge E Pier DRL-P11	50 31-Aug-24 A	28-Oct-24		22-Aug-24	-57	In-situ diaphragm casting at Bridge E Pier DRL-P11
S60790	Falsework for end span segment Erection	12 29-Oct-24	11-Nov-24	16-Nov-24	29-Nov-24	16	Falsework for end span segment Erection
Pierhead Segme	ent At Pier DRL-P10	27 22-Nov-24	23-Dec-24	21-Oct-24	20-Nov-24	-28	
S032865	Set-up & Implement TTA	1 22-Nov-24	22-Nov-24	21-Oct-24	21-Oct-24	-28	Set-up & Implement TTA
S032620	L-shape RW upper part Modification and backfill to form the Platform for Mobile Crane (500t)	6 23-Nov-24	29-Nov-24	22-Oct-24	28-Oct-24	-28	L-shape RW upper part Modification and backfill to form
S032680	Installation of Temporary Support for Pierhead Precast Shell Erection	6 23-Nov-24	29-Nov-24	22-Oct-24	28-Oct-24	-28	Installation of Temporary Support for Pierhead Precast S
S032570	Pierhead (precast shell P10DU0) erection + alignment	6 30-Nov-24	06-Dec-24	29-Oct-24	04-Nov-24	-28	Pierhead (precast shell P10DU0) erection + alignm
S032580	In-situ diaphragm casting at Pier DRL-P10 (2nd Casting)	14 07-Dec-24	23-Dec-24	05-Nov-24	20-Nov-24	-28	In-situ diaphragm casting at Pier DRL
Pierhead Segme	ent At Pier DRL-P09	32 26-Oct-24	02-Dec-24	06-Sep-24	12-Oct-24	-43	
S033130	Set-up & Implement TTA	1 26-Oct-24	26-Oct-24	06-Sep-24	06-Sep-24	-43	Set-up & Implement TTA
S032740	Construction of Platform for Mobile Crane (500t) and Flasework Erection	6 28-Oct-24	02-Nov-24	07-Sep-24	13-Sep-24	-43	Construction of Platform for Mobile Crane (500t) and Flasework Erection
S032840	Installation of Temporary Support for Pierhead Precast Shell Erection	6 28-Oct-24		07-Sep-24		-43	Installation of Temporary Support for Pierhead Precast Shell Erection
S032590	Pierhead (precast shell P9DU0) erection + alignment	1 04-Nov-24		14-Sep-24	· ·	-43	Pierhead (precast shell P9DU0) erection + alignment
S033020	Falsework Modification	3 05-Nov-24		16-Sep-24		-43	Falsework Modification
S032600	In-situ diaphragm casting at Pier DRL-P09 (26 days) + curing (14 days lag)	21 08-Nov-24	02-Dec-24	19-Sep-24	· ·	-43	In-situ diaphragm casting at Pier DRL-P09 (26 days)
	ent At Pier DRL-P08	38 20-Nov-24	02-Dcc-24 02-Jan-25	-	27-Nov-24	-31	ii i - situ diaprii agrii casting at Fier DRL-P09 (20 days)
S033350	Falsework Erection for Pierhead	7 20-Nov-24	27-Nov-24	15-Oct-24		-31	Foloaniado Fuestian for Dianhand
S032610		1 28-Nov-24	_	23-Oct-24			Falsework Erection for Pierhead
	Pierhead (precast shell P8D1, U0) erection and aligment					-31	Pierhead (precast shell P8D1, U0) erection and aligment
S033360	Falsework Erection for T-Span Erection	6 29-Nov-24		24-Oct-24		-31	Falsework Erection for T-Span Erection
S033170	Install Temporary Fixity at P08 (incl. checking and ice certification)	7 19-Dec-24		13-Nov-24		-31	Install Temporary Fixity at P08 (incl
S033370	In-situ diaphragm casting at Pier DRL-P08 + curing	18 06-Dec-24		31-Oct-24		-31	In-situ diaphragm casting at Pier D
S033380	Nailing Works ent At Pier DRL-P07	6 27-Dec-24 39 09-Oct-24		21-Nov-24 04-Sep-24		-31 -30	Nailing Works





Three Months Rolling Programme (Data Date : 08-Oct-24)
Period: 08-Oct-24 to 08-Jan-2025

Page: 14 of 16

	Primary Baseline
	Actual Work
	Remaining Work
	Critical Remaining Work
•	Milestone

3 Months Rolling Programme								
Date	Revision	Checked	Approved					
08-Jan-23	Rev.2.1k	DL	RP/RS					
22-Aug-23	Rev.3.0b	SLX	RP/RS					
14-Dec-23	Rev.3.0d	SLX	RP/RS					
27-May-24	Rev.3.0e	SLX	RP/RS					

Contract No. YL/2020/02

Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling/San Tin Highway and Direct Road Link Phase 1

Activity ID	Activity Name	AtCompletion Start	Finish	Late Start	Late Finish	Total Float	2024 2025 Odober November December January February
		Duration					29 06 13 20 27 03 10 17 24 01 08 15 22 29 05 12 19 26 02 09
S60800	Install Temporary Fixity at P07 (incl. checking and ice certification)	4 09-Oct-24	12-Oct-24	04-Sep-24		-30	Install Temporary Fixity at P07 (incl. checking and ice certification)
S033320	Falsework for Pierhead Erection	7 14-Oct-24	21-Oct-24	09-Sep-24		-30	Falsework for Pierhead Erection
S032630	Pierhead (precast shell P7DU0) erection	1 22-Oct-24	22-Oct-24	17-Sep-24		-30	Pierhead (precast shell P7DU0) erection
S033510	Falsework Modification	6 23-Oct-24	29-Oct-24		24-Sep-24	-30	Falsework Modification
S032640	In-situ diaphragm casting at Pier DRL-P07	21 30-Oct-24	22-Nov-24	25-Sep-24		-30	In-situ diaphragm casting at Pier DRL-P07
	nent At Pier DRL-P06	36 19-Oct-24	29-Nov-24	24-Sep-24		-22	
S60810	Install Temporary Fixity at P06 (incl. checking and ice certification)	6 21-Oct-24	26-Oct-24	25-Sep-24		-22	Install Temporary Fixity at P06 (incl. checking and ice certification)
S033160	Falsework for Pierhead Erection	7 19-Oct-24	26-Oct-24	24-Sep-24		-22	Falsework for Pierhead Erection
S032650	Pierhead (precast shell P6DU0) erection	1 28-Oct-24	28-Oct-24	02-Oct-24		-22	Pierhead (precast shell P6DU0) erection
S033560	Falsework Modification	7 29-Oct-24	05-Nov-24		10-Oct-24	-22	Falsework Modification
S032660	In-situ diaphragm casting at Pier DRL-P06	21 06-Nov-24	29-Nov-24	11-Oct-24	04-Nov-24	-22	In-situ diaphragm casting at Pier DRL-P06
Pierhead Segm	nent At Pier DRL-P05	77 08-Oct-24	04-Jan-25	21-Aug-24		-41	
Pierhead Segn	nent at Bridge B	39 08-Oct-24	21-Nov-24	21-Aug-24	08-Nov-24	-11	
S033480	Falsework Erection for Pierhead (at Bridge B)	7 08-Oct-24	15-Oct-24	21-Aug-24	28-Aug-24	-41	Falsework Erection for Pierhead (at Bridge B)
S033490	Pierhead (precast shell P5D0) Erection and Alignment	1 16-Oct-24	16-Oct-24	29-Aug-24	29-Aug-24	-41	Pierhead (precast shell P5D0) Erection and Alignment
S033500	Falsework Erection for End Span Erection Works	7 17-Oct-24	24-Oct-24	30-Aug-24	06-Sep-24	-41	Falsework Erection for End Span Erection Works
S032670	In-situ diaphragm casting at Pier DRL-P05 (26 days) + curing (14 days lag)	18 25-Oct-24	14-Nov-24	07-Sep-24	27-Sep-24	-41	In-situ diaphragm casting at Pier DRL-P05 (26 days) + curing (14 day
S033180	Install Temporary Fixity at P05 (incl. checking and ice certification) and Falsework	6 15-Nov-24	21-Nov-24	02-Nov-24	08-Nov-24	-11	Install Temporary Fixity at P05 (incl. checking and ice certificatio
Pierhead Segn	nent at Bridge C	44 15-Nov-24	04-Jan-25	28-Sep-24	18-Nov-24	-41	
S60460	Falsework Erection for Pierhead (at Bridge C)	7 15-Nov-24	22-Nov-24	28-Sep-24	05-Oct-24	-41	Falsework Erection for Pierhead (at Bridge C)
S60470	Pierhead (precast shell P5U0) Erection and Alignment	1 23-Nov-24	23-Nov-24	07-Oct-24	07-Oct-24	-41	Pierhead (precast shell P5U0) Erection and Alignment
S60480	Falsework Erection for End Span Erection Works	5 25-Nov-24	29-Nov-24	08-Oct-24	12-Oct-24	-41	Falsework Erection for End Span Erection Works
S60490	In-situ diaphragm casting at Pier DRL-P05 (26 days) + curing (14 days lag)	19 30-Nov-24	21-Dec-24	14-Oct-24	04-Nov-24	-41	In-situ diaphragm casting at Pier DRL-P0
S60500	Install Temporary Fixity at P05 (incl. checking and ice certification) and Falsework	12 23-Dec-24	04-Jan-25	05-Nov-24	18-Nov-24	-41	Install Temporary Fixity at P05
	nent At Pier DRL-P03	46 22-Aug-24 A	14-Oct-24	23-Sep-24		-13	install fortibotary i party act i oc
S032720	In-situ diaphragm casting at Pier DRL-P03	46 22-Aug-24 A	14-Oct-24	23-Sep-24	· ·	-13	In-situ diaphragm casting at Pier DRL-P03
	nent At Pier DRL-P02	14 08-Oct-24	23-Oct-24	14-Oct-24	•	5	III-situ diapinagini casting at Fiel Dixt-F03
S032730	In-situ diaphragm casting at Pier DRL-P02	14 08-Oct-24	23-Oct-24	14-Oct-24		5	In aits disphrage coating at Diar DDI D00
	pan and End Span Segments	85 15-Oct-24	21-Jan-25	30-Sep-24		1	In-situ diaphragm casting at Pier DRL-P02
At Pier DRL-P1		10 10-Dec-24	20-Dec-24	06-Jan-25		23	
S032770	Cast In-situ stitch P12-P13	7 10-Dec-24	17-Dec-24	06-Jan-25		23	O-41 1 11-1 D40 D40
S032770 S032780		3 18-Dec-24	20-Dec-24	14-Jan-25		23	Cast In-situ stitch P12-P13
	Stressing and grouting of S Bottom Tendons P12-P13					23	Stressing and grouting of S Bottom Tendo
At Pier DRL-P1		40 11-Nov-24		29-Nov-24			
End Span in B		40 11-Nov-24	26-Dec-24			23	
S033340	Implement TTA	1 11-Nov-24	11-Nov-24	29-Nov-24		16	∥ Implement TTA
S032790	Erection of End Span at Bridge E of Pier DRL-P11 (11 segments)	14 12-Nov-24	27-Nov-24	30-Nov-24		16	Erection of End Span at Bridge E of Pier DRL-P11 (11 segn
S032800	Cast In-situ stitch P11-P12	7 28-Nov-24	05-Dec-24	25-Dec-24		23	Cast In-situ stitch P11-P12
S032810	Stressing of S Bottom Tendons P11-P12	3 06-Dec-24	09-Dec-24	02-Jan-25		23	Stressing of S Bottom Tendons P11-P12
S033280	Engage permanents bearings at P11	3 10-Dec-24	12-Dec-24	14-Jan-25		30	Engage permanents bearings at P11
S033310	Stress External Tendon - Bridge E	5 21-Dec-24	26-Dec-24	17-Jan-25		23	Stress External Tendon - Bridge E
At Pier DRL-P1		18 11-Dec-24	31-Dec-24	22-Oct-24	28-Nov-24	-28	A A PDI P10
S032835	Access DRL-P10	0 11-Dec-24		22-Oct-24		-43	◆ Access DRL-P10
S032842	Implement TTA for 3.5m Traffic Carriageway Maintaining between DRL-P09 and P10	1 11-Dec-24	11-Dec-24	22-Oct-24		-43	▮ Implement TTA for 3.5m Traffic Carriageway Ma
S032855	Erection of First Pair Segment (DP10D1,DP10U1) by 500Ton Mobile Crane+ Stressing Top Tendon	7 24-Dec-24	31-Dec-24	21-Nov-24	28-Nov-24	-28	Erection of First Pair Segment (D
At Pier DRL-P0	9	35 03-Dec-24	11-Jan-25	14-Oct-24	22-Nov-24	-43	
S033125	Access DRL-P09	0 03-Dec-24		14-Oct-24		-43	◆ Access DRL-P09
S033145	Erection of First Pair Segment (DP9D1, DP9U1) by 500Ton Mobile Crane+ Stressing of Top Tendor	7 03-Dec-24	10-Dec-24	14-Oct-24	21-Oct-24	-43	Erection of First Pair Segment (DP9D1, DP9U1)
S033135	Assembly, Erection and Testing of Special Lifting Frame (SLF) at DRL-P09	18 11-Dec-24	31-Dec-24	22-Oct-24	11-Nov-24	-43	Assembly, Erection and Testing of
S032880	Erection of T-Span at Pier DRL-P09 (19 segments) (by SLF) + counter weight set-up	10 01-Jan-25	11-Jan-25	12-Nov-24		-43	Erection of T-Span at Pie
5002000		10 01-0air20	11-0air20	12 1404-24	LL 1404-L4		2 Martha Polling Programme
		ree Months Rolling P	rogramme	(Data Da	ate : 08-O	ct-24)	Primary Baseline 3 Months Rolling Programme Date Revision Checked Appro
+ * T	程拓展署 中国政権工程有限条件公司	Period: 08-0	Oct-24 to f	8-Jan-20	25		Actual Work Date Revision Checked Appro
(- 1 11)	中國路標工程有限責任公司 Engineering and CHINA ROAD AND BRIDGE CORPORATION						Remaining Work 22-Aug-23 Rev.3.0b SLX RP/RS
	opment Department	Pa	ge: 15 of 1	10			Critical Remaining Work Critical Remaining Work 14-Dec-23 Rev.3.0d SLX RP/RS
50101							◆ Milestone 27-May-24 Rev.3.0e SLX RP/RS

Contract No. YL/2020/02

Development of Lok Ma Chau Loop: Main Works Package 1 - Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling/San Tin Highway and Direct Road Link Phase 1

ctivity ID	Activity Name	AtCompletion Start	Finish	Late Start	Late Finish	Total Float		2024 2025
		Duration				22	29	October November December January February 06 13 20 27 03 10 17 24 01 08 15 22 29 05 12 19 26 02 09
At Pier DRL-P08		12 03-Jan-25	16-Jan-25	28-Nov-24	11-Dec-24	-31	1	
S032910	Erection of T-Span at Pier DRL-P08 (22 segments) (incl.stressing of C-tendons)	12 03-Jan-25	16-Jan-25	28-Nov-24	11-Dec-24	-31		Erection of T-Span at
At Pier DRL-P07		14 23-Nov-24	09-Dec-24	19-Oct-24	04-Nov-24	-30		
S032940	Erection of T-Span at Pier DRL-P07 (14 segments) (incl.stressing of C-tendons)	14 23-Nov-24	09-Dec-24	19-Oct-24	04-Nov-24	-30		Erection of T-Span at Pier DRL-P07 (14 segments)
At Pier DRL-P06		13 09-Dec-24	23-Dec-24	04-Nov-24	18-Nov-24	-30		
S033140	Implement TTA	1 09-Dec-24	09-Dec-24	04-Nov-24	04-Nov-24	-30		Implement TTA
S032970	Erection of T-Span at Pier DRL-P06 (14 segments) (incl.stressing of C-tendons)	12 10-Dec-24	23-Dec-24	05-Nov-24	18-Nov-24	-30		Erection of T-Span at Pier DRL-P06 (14
At Pier DRL-P05		58 15-Nov-24	21-Jan-25	02-Nov-24	10-Dec-24	-36	i	
End Span in Brid	dge B	31 15-Nov-24	20-Dec-24	02-Nov-24	10-Dec-24	-9		
S033000	Erection of End Span at Pier DRL-P05 (5 segments) of Bridge B	14 15-Nov-24	30-Nov-24	02-Nov-24	18-Nov-24	-11		Erection of End Span at Pier DRL-P05 (5 segments) of Bri
S033600	Bearing Engage	6 14-Dec-24	20-Dec-24	04-Dec-24	10-Dec-24	-9		Bearing Engage
End Span in Brid	dge C	14 06-Jan-25	21-Jan-25	19-Nov-24	04-Dec-24	-41		
S033010	Erection of End Span at Pier DRL-P05 (5 segments) of Bridge C	14 06-Jan-25	21-Jan-25	19-Nov-24	04-Dec-24	-41		Erection of End Sp
At Pier DRL-P04		38 31-Oct-24	13-Dec-24	16-Oct-24	03-Dec-24	-9		
S033030	Erection of T-Span at Pier DRL-P04 (20 segments) (incl.stressing of C-tendons)	12 31-Oct-24	13-Nov-24	16-Oct-24	29-Oct-24	-13		Erection of T-Span at Pier DRL-P04 (20 segments) (incl.stressing of C-
S033040	Cast In-situ stitch P04-P05	4 06-Dec-24	10-Dec-24	26-Nov-24	29-Nov-24	-9		Cast In-situ stitch P04-P05
S033050	Stressing and grouting of S Bottom Tendons P04-P05	3 11-Dec-24	13-Dec-24	30-Nov-24	03-Dec-24	-9		Stressing and grouting of S Bottom Tendons P04
At Pier DRL-P03		66 15-Oct-24	30-Dec-24	30-Sep-24	19-Dec-24	-9		
S033060	Erection of T-Span at Pier DRL-P03 (20 segments) (incl.stressing of C-tendons)	14 15-Oct-24	30-Oct-24	30-Sep-24	15-Oct-24	-13		Erection of T-Span at Pier DRL-P03 (20 segments) (incl.stressing of C-tendons)
S033070	Cast In-situ stitch P03-P04	4 21-Dec-24	25-Dec-24	11-Dec-24	14-Dec-24	-9		Cast In-situ stitch P03-P04
S033080	Stressing and grouting of S & E Bottom Tendons P03-P04	4 26-Dec-24	30-Dec-24	16-Dec-24	19-Dec-24	-9		Stressing and grouting of S & E Bo
At Pier DRL-P02		47 14-Nov-24	07-Jan-25	30-Oct-24	27-Dec-24	-9		
S033090	Erection of end segments at Pier DRL-P02 (10 segments Incl DRL-B)	12 14-Nov-24	27-Nov-24	30-Oct-24	12-Nov-24	-13		Erection of end segments at Pier DRL-P02 (10 segments Inc
S033100	Cast In-situ stitch P02-P03	4 28-Nov-24	02-Dec-24	14-Nov-24	18-Nov-24	-12		Cast In-situ stitch P02-P03
S033260	Install Bearings and Release Fixity at Pier P02	4 28-Nov-24	02-Dec-24	14-Nov-24	18-Nov-24	-12		Install Bearings and Release Fixity at Pier P02
S033110	Stressing and grouting of S & E Bottom Tendons P02-P03	3 03-Dec-24	05-Dec-24	19-Nov-24	21-Nov-24	-12		Stressing and grouting of S & E Bottom Tendons P02-F
S033150	Stress External Tendon - Bridge B	7 31-Dec-24	07-Jan-25	20-Dec-24	27-Dec-24	-9		Stress External Tendon - Brid
At Abutment DRI	L-A01	51 12-Nov-24	09-Jan-25	09-Nov-24	07-Jan-25	-2		
S033240	Falseworks at Abutment A01 End Span	6 12-Nov-24	18-Nov-24	09-Nov-24	15-Nov-24	-2		Falseworks at Abutment A01 End Span
S033520	Pierhead Segment Erection (A01D0)	6 19-Nov-24	25-Nov-24	16-Nov-24	22-Nov-24	-2		Pierhead Segment Erection (A01D0)
S033530	Falseworks Erection after Pierhead Erection at A01	6 26-Nov-24	02-Dec-24	23-Nov-24	29-Nov-24	-2		Falseworks Erection after Pierhead Erection at A01
S033540	In-situ diaphragm casting (A01D0) at Pier A01	0 03-Dec-24	03-Dec-24	29-Nov-24	29-Nov-24	-2		In-situ diaphragm casting (A01D0) at Pier A01
S033550	A01D0 Falseworks Modification	14 03-Dec-24	18-Dec-24	30-Nov-24	16-Dec-24	-2		A01D0 Falseworks Modification
S033200	Erection of end segments at Abutment A01(7 segments) (incl.stressing of C-tendons)	7 19-Dec-24	26-Dec-24	17-Dec-24	24-Dec-24	-2		Erection of end segments at Abutment
S033290	Install Bearings at Abutment A01	12 27-Dec-24	09-Jan-25	25-Dec-24	07-Jan-25	-2		Install Bearings at Abutmen
In-situ Deck for D	PRL Bridge-A	72 14-Nov-24	05-Feb-25	30-Oct-24	21-Jan-25	-13		
S033390	False Work for DRL-P02 to P01 (Bridge-A)	20 14-Nov-24	06-Dec-24	30-Oct-24	21-Nov-24	-13		False Work for DRL-P02 to P01 (Bridge-A)
S033230	Construction of bridge deck for Bridge-A	52 07-Dec-24	05-Feb-25	22-Nov-24	21-Jan-25	-13		Consti



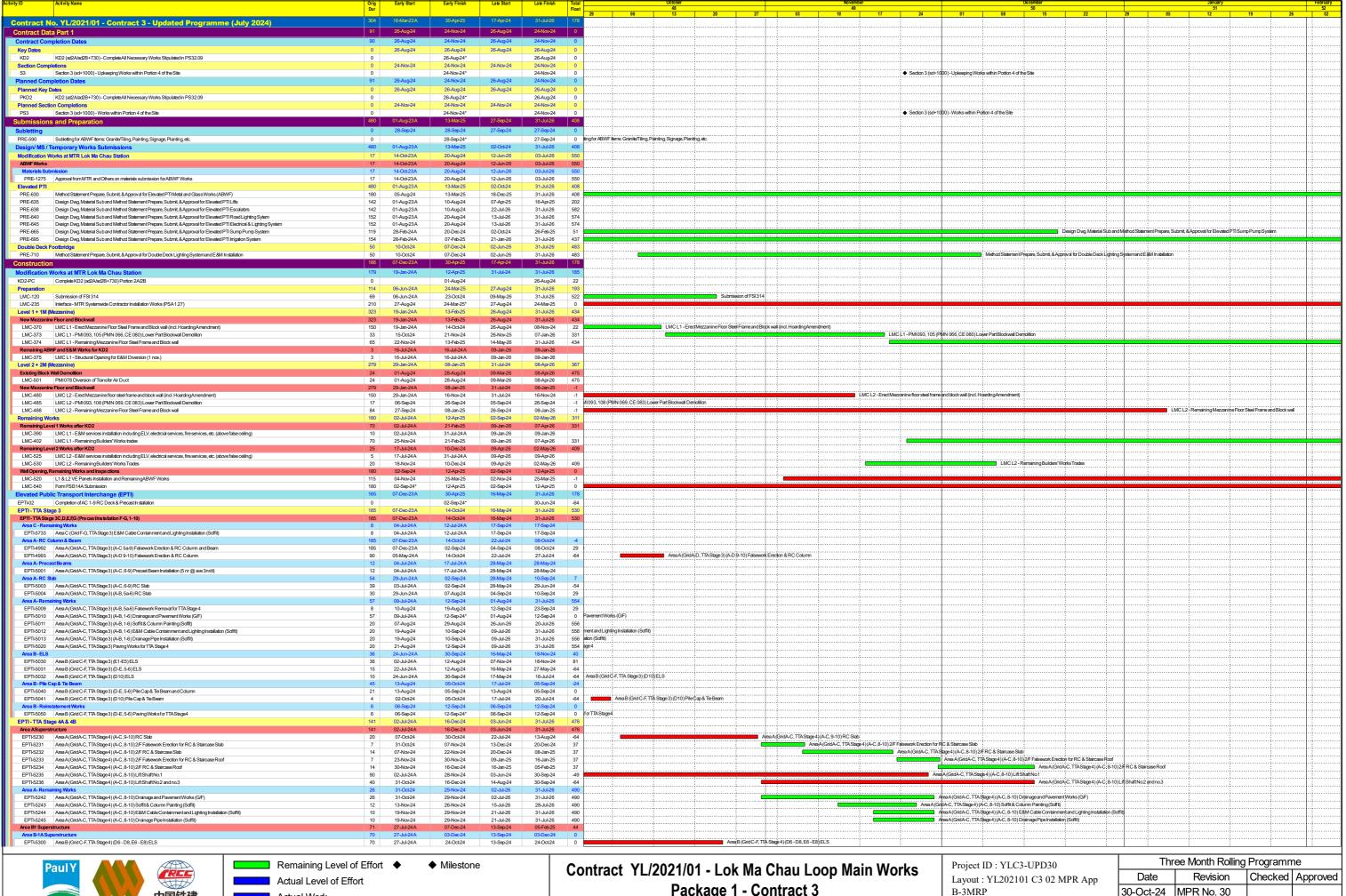


Three Months Rolling Programme (Data Date : 08-Oct-24)
Period: 08-Oct-24 to 08-Jan-2025
Page : 16 of 16

Primary Baseline
Actual Work
Remaining Work
Critical Remaining Work
♠ Milestone

3 Months Rolling Programme								
Date	Revision	Checked	Approved					
08-Jan-23	Rev.2.1k	DL	RP/RS					
22-Aug-23	Rev.3.0b	SLX	RP/RS					
14-Dec-23	Rev.3.0d	SLX	RP/RS					
27-May-24	Rev.3.0e	SLX	RP/RS					

Contract No. YL/2021/01 – Development of Lok Ma Chau
Loop: Main Works Package 1 – Contract 3 Direct Road
Link Phase 2









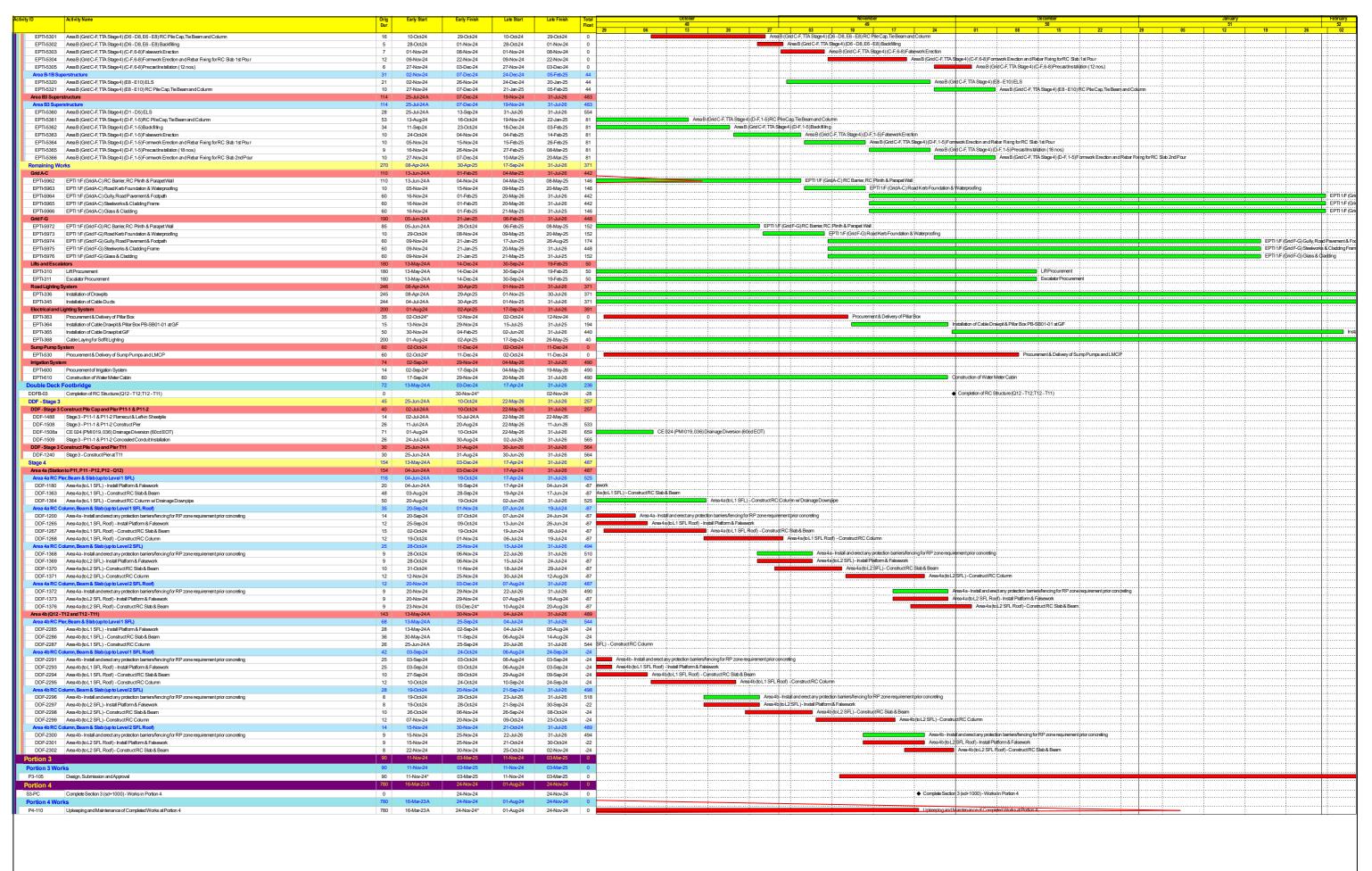
Actual Work Remaining Work Paul Y. - Chun Wo - CRCC JV

Critical Remaining Work

Package 1 - Contract 3 **Three Month Rolling Programme**

Date: 01-Nov-24 / Page 1 of 2

30-Oct-24 MPR No. 30













Contract YL/2021/01 - Lok Ma Chau Loop Main Works Package 1 - Contract 3 **Three Month Rolling Programme**

Project ID: YLC3-UPD30 Layout: YL202101 C3 02 MPR App

B-3MRP

Date: 01-Nov-24 / Page 2 of 2

Three Month Rolling Programme							
	Date	Revision	Checked	Approved			
	30-Oct-24	MPR No. 30					

APPENDIX B ACTION AND LIMIT LEVELS

Appendix B - Action and Limit Levels

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

Location	Action Level, μg/m ³	Limit Level, μg/m³
DMS – 1a	353	
DMS - 2A	370	500
DMS - 3	351	500
DMS – 4A	350	

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

Location	Action Level, μg/m ³	Limit Level, μg/m³
DMS - 1	184	
DMS – 2A	166	260
DMS - 3	166	260
DMS – 4A	152	

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 Action and Limit Levels for Water Quality

Parameter (unit)	Water Depth	Action Level	Limit Level
		IS1: 7.0 / NA ⁽⁴⁾	IS1: <u>6.8 or 4⁽⁴⁾</u>
		IS2: <u>5.3 / NA⁽⁴⁾</u>	IS2: <u>5.2 or 4⁽⁴⁾</u>
DO (mg/L)	Depth average	IS4: <u>4.1 / NA⁽⁴⁾</u>	IS4: $3.8 \text{ or } 4^{(4)}$
		IS6: <u>5.9</u>	IS6: <u>5.8</u>
		BS1: <u>3.9 / NA⁽⁴⁾</u>	BS1: <u>3.7 or 4⁽⁴⁾</u>
		IS1: <u>27.7</u>	IS1: <u>29.9</u>
	Depth average	IS2: <u>35.5</u>	IS2: <u>38.1</u>
Turbidity (NTU)		IS4: <u>70.9</u>	IS4: <u>74.6</u>
Turbialty (NTO)		BS1: <u>29.9</u>	BS1: <u>32.6</u>
		IS6: 120% of upstream	IS6: 130% of upstream
		control station (CS5)	control station (CS5)
		IS1: <u>28.0</u>	IS1: <u>28.8</u>
		IS2: <u>39.8</u>	IS2: <u>41.2</u>
SS	Donth arrange	IS4: <u>155</u>	IS4: <u>175</u>
(mg/L)	Depth average	BS1: <u>36.5</u>	BS1: <u>36.9</u>
		IS6: 120% of upstream	IS6: 130% of upstream
		control station (CS5)	control station (CS5)

Note:

- (1) Depth-averaged was calculated by taking the arithmetic means of reading of all three depths
- (2) For DO, non-compliance of the water quality limit would occur when monitoring result at impact stations was lower that the limit.
- (3) For SS & turbidity, non-compliance of the water quality limits would occur when monitoring result at impact stations was higher than the limits.
- (4) The proposal of adopting 4 mg/L as the Limit Level of DO for the period from April to September due to seasonal change of DO was accepted by EPD via email on 10 Dec 2019.

APPENDIX C COPIES OF CALIBRATION CERTIFCATES



						File No.	WMA21009/24/0)021
Station	DMS-3 - Village Hou	se along Old Border Re	oad			Operator:		
Date:	8-Aug-24				Next	Due Date:	7-Oct-24	
Equipment No.:	WA-12-24	MATERIAL AL WATER TO THE TOTAL AND THE TOTAL				Serial No.		
			Ambient (Condition				
Temperat	ture, Ta (K)	307.2	Pressure, Pa			757	.6	
	,			<u> </u>				· · · · · · · · · · · · · · · · · · ·
		C	rifice Transfer Sta	ndard Informat	ion			
Seri	al No.	2896	Slope, mc	0.0589	Intercept,		-0.02865	
Last Calib	oration Date:	15-Jan-24			be = [ΔH x (Pa/76			
Next Calil	oration Date:	15-Jan-25		$Qstd = \{[\Delta H$	x (Pa/760) x (298	/Ta)] ^{1/2} -bc}	/ mc	
			Calibration of	TSP Sampler				
Calibration		Orfi	ce			HV	'S	
Point	ΔH (orifice), in. of water	[ΔH x (Pa/76	0) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water	[ΔW x (Pa/	760) x (298/Ta)] ^{1/2}	Y-axis
1	13.1	3	3.56	60.88	7.7		2.73	
2	10.7	3	3,22	55.07	6.4		2.49	
3	8.5	2	2.87	49.13	5.0		2.20	
4	6.7	2	2,55	43.68	4.1		1.99	
5	5.3	2	2,26	38.90	3.4		1.81	
Slope , mw = Correlation	coefficient < 0.990,		988	Intercept, bw	0.1574			
	· · · · · · · · · · · · · · · · · · ·		Set Point C	aloulation				
From the TSP F	ield Calibration Cur	ve_take Ostd = 43 C		aicuiation				
	ssion Equation, the "							
-	ore, Set Point; W=(mw x	$Qstd + bw = [\Delta W]$		3/Ta)] ^{1/2}			
Remarks:						ONLINE TO THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER		
Conducted by: Checked by:	137 MAN HER Go Ca dun	Signature:	Jhe		•	Date:	8/8/2024 8/8/24	



						File No.	WMA21009/24	/0022
Station	DMS-3 - Village Hou	se along Old Border R	oad			Operator:	HL	
Date:	3-Oct-24		_		Next	2-Dec-24	Dec-24	
Equipment No.:	: WA-12-24		•			Serial No	10576	
			Ambient (Condition				
Tempera	iture, Ta (K)	296.5	Pressure, Pa			763	6	
				(<u></u>			
			Orifice Transfer Sta	ndard Informat	ion			
Ser	ial No.	2896	Slope, mc	0.0589	Intercept,	bc	-0.02865	
Last Calil	bration Date:	15-Jan-24		me x Qstd +	$bc = [\Delta H \times (Pa/7)]$	60) x (298/Ta	n)] ^{1/2}	
	bration Date:	15-Jan-25		$Qstd = \{[\Delta H$	x (Pa/760) x (298	3/Ta)] ^{1/2} -bc}	/ me	
			Calibration of	TSP Sampler				
Calibration		Orf	ice			HV	S	
Point	ΔH (orifice), in. of water	[ΔH x (Pa/76	50) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water	[ΔW x (Pa/	760) x (298/Ta)] ^{1/2}	Y-axis
1	13.5		3.69	63.14	7.9		2.82	
2	10.7		3.29	56.26	6.5		2.56	
3	8.3		2.90	49.61	5.2	2.29		
4	6.9		2.64	45.28	4.3	2.08		
5	5,4		2.34	40.11	3.5		1.88	
Der I karana Dana	wasian af V an V							
Slope, mw =	ression of Y on X 0.0414			Intercept, bw	0,2225			
	coefficient* =	n e	9994	intercept, bw	0,2223	·		
	Coefficient < 0.990, o							
11 Concidion (Coomelent \ 0.770,	check and recamorate	υ ,					
			Set Point C	alculation				apples.
From the TSP F	ield Calibration Curv	ve. take Ostd = 43 C						
	ssion Equation, the "							
Tom mo reogree	obion Equation, the	r varao according	.0					
		mw x	$Qstd + bw = [\Delta W]$	x (Pa/760) x (298	3/Ta)] ^{1/2}			
Therefo	ore, Set Point; W = (mw x Qstd + bw)"	x (760 / Pa) x (Ta /	(298)=	3.97			
D1								
Remarks:								
Conducted by:	172 1Am (111)	Signature:	Ohe	,		Date:	2/1/2	214
	200 - 130 + 141	Ü	Vi	-			71.1	· · · ·
Checked by:	to gram	Signature:	-		-	Date:	\$[[#[]w]	<u>v</u>



						File No.	WMA21009/07/	0021
Station	DMS-4A - Hong Kor	ng Police Force, Lok M	a Chau Operation Base	at Horn Hill		Operator:	HL	
Date:	8-Aug-24				Next	Due Date:	7-Oct-24	
Equipment No.:	WA-12-07					Serial No.	1801	

			Ambient (Condition				
Temperat	ture, Ta (K)	306.8	Pressure, Pa	(mmHg)		758	.1	
			\	J J T £ 4	· · · · · · · · · · · · · · · · · · ·			
Son:	al No.	2896	Orifice Transfer Sta	0.0589	Intercept,	ho I	0.02965	
	oration Date:	15-Jan-24	Slope, mc		$bc = [\Delta H \times (Pa/7)]$		-0.02865	
	pration Date:	15-Jan-25			x (Pa/760) x (298			
NOA! Call	oration Date.	. 13-3dH-23		1111) 2409	A (1 4) / 00) A (2) 0	,, , , , , , , , , , , , , , , , , , , ,	7 8110	
			Calibration of	TSP Sampler	11.11			
Calibration		Orfi	ce			HV	'S	
Point	ΔH (orifice), in. of water	[ΔH x (Pa/76	0) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water	[ΔW x (Pa/	760) x (298/Ta)] ^{1/2}	Y-axis
1	13.2		3.58	61.17	8.0		2.78	***************************************
2	11.5		3.33	57.05	6.7		2.55	
3	7.9		2.77	47.43	5,0		2.20	
4	6.5		2.51	43.07	3.9	1.94		
5	3.7		1.89	32.61	2.4		1.52	
-	ression of Y on X							
Slope, mw =				Intercept, bw	0.0982			
	coefficient* =		979	**************************************				
*If Correlation (Coefficient < 0.990,	check and recalibrate	.					
			Set Point C	alculation				
From the TSP F	ield Calibration Cur	ve, take Qstd = 43 C						
From the Regres	sion Equation, the "	'Y" value according t	o					
				(P. 1540) (200	· · · · · · · · · · · · · · · · · · ·			
		mw x	$Qstd + bw = [\Delta W]$	x (Pa//60) x (298	/Ta)]***			
Therefo	ore, Set Point; W = ($(mw \times Qstd + bw)^2$	x (760 / Pa) x (Ta/	(298)=	4.01			
Remarks:								
			1) /				01.011-	
Conducted by:	Ho Ke oru	VSignature:	1/he	25		Date:	8/ 8/2024	
Checked by:	to 100 chu	Signature:	1/1/2			Date:	81 8/216	



Date: 3-Oct-24 Next Due Date: 2-Dec	07/0022	File No. <u>WMA21009/07/0</u>						
Equipment No.: WA-12-07 Serial No. 180		Operator: HL		t Horn Hill	Ia Chau Operation Base	g Police Force, Lok M	DMS-4A - Hong Kon	Station
Ambient Condition Temperature, Ta (K) 296.4 Pressure, Pa (mmHg) 763.4	24	Due Date: 2-Dec-24	Next:				3-Oct-24	Date:
Temperature, Ta (K) 296.4 Pressure, Pa (mmHg) 763.4		Serial No. 1801	;		-		WA-12-07	Equipment No.:
				ndition	Ambient C			
Serial No. 2896 Slope, mc 0.0589 Intercept, bc -0.028 Last Calibration Date: 15-Jan-24 mc x Qstd + bc = [AH x (Pa/760) x (298/Ta)]^{1/2} -bc] / mc Calibration Date: 15-Jan-25 Qstd = {[AH x (Pa/760) x (298/Ta)]^{1/2} -bc] / mc Calibration of TSP Sampler Calibration of Mater In. of water In. of wate	77.57000	763.4		mmHg)	Pressure, Pa	296.4	ure, Ta (K)	Temperat
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		TAINL L						
Last Calibration Date: 15-Jan-24 mc x Qstd + bc = $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ Qstd = $\{[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2} - bc\} / mc$ Calibration Date: 15-Jan-25 Calibration of TSP Sampler Calibration of TSP Sampler HVS AH (orifice), in. of water [AH \times (Pa/760) \times (298/Ta)]^{1/2} Qstd (CFM) \times \times \times (MVS), in. of water [AW \times (Pa/760) \times (298/Ta)] 1 1.2.9 3.61 61.73 8.2 2.88 2 11.3 3.38 57.81 6.9 2.64 3 8.0 2.84 48.72 5.2 2.29 4 6.4 2.54 43.62 3.9 1.98 5 3.5 1.88 32.39 2.4 1.56 By Linear Regression of Y on X Slope , mw =			ion	dard Informat	Orifice Transfer Star			
Next Calibration Date: 15-Jan-25 Qstd = {[AH x (Pa/760) x (298/Ta)]^{1/2} -bc} / mc Calibration of TSP Sampler Calibration Point AH (orifice), in. of water [AH x (Pa/760) x (298/Ta)]^{1/2} Qstd (CFM) AW (HVS), in. of water [AW x (Pa/760) x (298/Ta)] 1 12.9 3.61 61.73 8.2 2.88 2 11.3 3.38 57.81 6.9 2.64 3 8.0 2.84 48.72 5.2 2.29 4 6.4 2.54 43.62 3.9 1.98 5 3.5 1.88 32.39 2.4 1.56 By Linear Regression of Y on X Slope , mw =	55				Slope, mc	2896	al No.	Seria
		60) x (298/Ta)] ^{1/2}	bc = [ΔH x (Pa/76	me x Qstd + l		15-Jan-24	ration Date:	Last Calib
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		/Ta)] ^{1/2} -bc} / mc	x (Pa/760) x (298	$Qstd = \{[\Delta H$		15-Jan-25	oration Date:	Next Calib
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$								
Canoration Point ΔH (orifice), in. of water [ΔH x (Pa/760) x (298/Ta)] $^{1/2}$ Qstd (CFM) X - axis ΔW (HVS), in. of water [ΔW x (Pa/760) x (298/Ta)] $^{1/2}$ 1 12.9 3.61 61.73 8.2 2.88 2 11.3 3.38 57.81 6.9 2.64 3 8.0 2.84 48.72 5.2 2.29 4 6.4 2.54 43.62 3.9 1.98 5 3.5 1.88 32.39 2.4 1.56 By Linear Regression of Y on X Slope , mw = 0.0448 Intercept, bw : 0.0837 Correlation coefficient* = 0.9973 *If Correlation Coefficient < 0.990, check and recalibrate.				SP Sampler	Calibration of			
Point ΔH (orifice), in. of water [ΔH x (Pa/760) x (298/Ta)] ^{1/2} Qstd (CFM) X - axis of water ΔW (HVS), in. of water [ΔW x (Pa/760) x (298/Ta)] ^{1/2} 1 12.9 3.61 61.73 8.2 2.88 2 11.3 3.38 57.81 6.9 2.64 3 8.0 2.84 48.72 5.2 2.29 4 6.4 2.54 43.62 3.9 1.98 5 3.5 1.88 32.39 2.4 1.56 By Linear Regression of Y on X Slope, mw =		HVS			ice	Orf		Calibration
2 11.3 3.38 57.81 6.9 2.64 3 8.0 2.84 48.72 5.2 2.29 4 6.4 2.54 43.62 3.9 1.98 5 3.5 1.88 32.39 2.4 1.56 By Linear Regression of Y on X Slope, mw = 0.0448 Intercept, bw: 0.0837 Correlation coefficient* = 0.9973 *If Correlation Coefficient < 0.990, check and recalibrate. Set Point Calculation From the TSP Field Calibration Curve, take Qstd = 43 CFM From the Regression Equation, the "Y" value according to mw x Qstd + bw = [ΔW x (Pa/760) x (298/Ta)] ^{1/2}] ^{1/2} Y-axis	[ΔW x (Pa/760) x (298/Ta)] ^{1/2}			50) x (298/Ta)] ^{1/2}	[ΔH x (Pa/76		
3 8.0 2.84 48.72 5.2 2.29 4 6.4 2.54 43.62 3.9 1.98 5 3.5 1.88 32.39 2.4 1.56 By Linear Regression of Y on X Slope, mw = 0.0448 Intercept, bw: 0.0837 Correlation coefficient* = 0.9973 *If Correlation Coefficient < 0.990, check and recalibrate. Set Point Calculation From the TSP Field Calibration Curve, take Qstd = 43 CFM From the Regression Equation, the "Y" value according to mw x Qstd + bw = [ΔW x (Pa/760) x (298/Ta)] ^{1/2}		2.88	8.2	61.73	3.61		12.9	1
4 6.4 2.54 43.62 3.9 1.98 5 3.5 1.88 32.39 2.4 1.56 By Linear Regression of Y on X Slope, mw = 0.0448 Intercept, bw: 0.0837 Correlation coefficient* = 0.9973 *If Correlation Coefficient < 0.990, check and recalibrate. Set Point Calculation From the TSP Field Calibration Curve, take Qstd = 43 CFM From the Regression Equation, the "Y" value according to mw x Qstd + bw = [ΔW x (Pa/760) x (298/Ta)] ^{1/2}		2.64	6,9	57.81	3.38		11.3	2
5 3.5 1.88 32.39 2.4 1.56 By Linear Regression of Y on X Slope, mw = 0.0448 Intercept, bw: 0.0837 Correlation coefficient* = 0.9973 *If Correlation Coefficient < 0.990, check and recalibrate. Set Point Calculation From the TSP Field Calibration Curve, take Qstd = 43 CFM From the Regression Equation, the "Y" value according to mw x Qstd + bw = [ΔW x (Pa/760) x (298/Ta)] ^{1/2}		2.29	5.2	48.72	2.84		8.0	3
By Linear Regression of Y on X Slope, mw = 0.0448		1.98	3.9	43.62	2.54		6.4	4
Slope , mw =		1.56	2.4	32.39	1.88		3.5	5
From the TSP Field Calibration Curve, take Qstd = 43 CFM From the Regression Equation, the "Y" value according to $\mathbf{mw} \ \mathbf{x} \ \mathbf{Qstd} + \mathbf{bw} = \left[\Delta \mathbf{W} \ \mathbf{x} \ (\mathbf{Pa}/760) \ \mathbf{x} \ (\mathbf{298/Ta}) \right]^{1/2}$			0.0837	Intercept, bw			0.0448 coefficient* =	Slope , mw = Correlation
From the TSP Field Calibration Curve, take Qstd = 43 CFM From the Regression Equation, the "Y" value according to $\mathbf{mw} \ \mathbf{x} \ \mathbf{Qstd} + \mathbf{bw} = \left[\Delta \mathbf{W} \ \mathbf{x} \ (\mathbf{Pa}/760) \ \mathbf{x} \ (\mathbf{298/Ta}) \right]^{1/2}$				culation	Set Point Ca			
From the Regression Equation, the "Y" value according to $mw \times Qstd + bw = [\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$		The state of the s				ve, take Qstd = 43 C	eld Calibration Curv	From the TSP Fi
mw x Qstd + bw = $[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$						•		
			/m- \11/2	m - 17160) (200		_	,	
Therefore, Set Point; W = $(mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) =$ 3.99			/ I a) j	(Fa//00) X (290	. Qstu + bw į∆w x	ш х		
			3.99	98)=	x (760 / Pa) x (Ta/	$mw \times Qstd + bw)^2$	re, Set Point; W = (Therefo
			.					
Remarks:	×					· · · · · · · · · · · · · · · · · · ·		Remarks:
^								
Conducted by: 166 MAN MEV Signature: 165 Date: 3/10/2 Checked by: 16 km Man Signature: Date: 3/10/2	24 ([317		i i	/ p.		126 MAN HER	Conducted by:



RECALIBRATION DUE DATE:

January 15, 2025

Pertificate of

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	Qstd	$\sqrt{\Delta H(\frac{Pa}{Pstd})(\frac{Tstd}{Ta})}$		Qa	$\sqrt{\Delta H (Ta/Pa)}$			
(m3)	(x-axis)	(y-axis)	Va	(x-axis)	(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			
	m=	2.08157		m=	1.30344			
QSTD	b=	-0.02865	QA	b=	-0.01780			
	r=	0.99981	,	r=	0.99981			

	Calculations					
Vstd=	ΔVol((Pa-ΔP)/Pstd)(Tstd/Ta)	Va≃	ΔVol((Pa-ΔP)/Pa)			
Qstd=	Vstd/∆Time	Qa=	Va/ <u>A</u> 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=	$1/m\left(\left(\sqrt{\Delta H(Ta/Pa)}\right)-b\right)$			

	Standard Cor	nditions
Tstd:	298.15 °K	
Pstd:	760 mm	Hg
	Key	
		eading (in H2O)
		reading (mm Hg)
	solute tempera	
	rometric press	ure (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



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

TEST REPORT

APPLICANT: Wellab Limited

(EM&A Department)

Room 1808, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: 41075B
Date of Issue: 2024-09-16
Date Received: 2024-09-13
Date Tested: 2024-09-13
Date Completed: 2024-09-16

Next Due Date: Page:

1 of 1

2024-11-15

ATTN:

Ms. Meiling Tang

Certificate of Calibration

Item for Calibration:

Description

: Dust Monitor

Manufacturer

: Met One Instruments

Model No.

: AEROCET-831

Serial No.

: X23809

Flow rate

: 0.1 cfm

Zero Count Test

: 0 count per 1 minute

Equipment No.

: WA-01-03

Test Conditions:

Room Temperature

: 17-22 degree Celsius

Relative Humidity

: 40-70%

Test Specifications & Methodology:

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

Results:

Correlation Factor (CF) 1.127

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

PATRICK TSE

General Manager

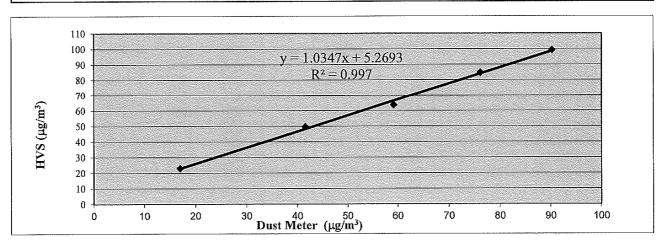
<u>TSP - Total Suspended Particulates (1 hr Dust Meter)</u> <u>Calibration Report</u>

Dust Meter	Dust Meter	High Volume Sampler	
Equipment No.:	WA-01-03	WA-12-09	
Model No. :	AEROCET-831	TE-5170	
Serial No.	X23809	2203	
Calibration Date:	13-Sep-24	13-Sep-24	
Location:	Wellab Office (Calibration Room)		

Calibration of 1 hr TSP							
Dust Meter		HVS					
Mass Concentration (μg/m ³) N	Iass concentration (μg/m³)					
X-axis		Y-axis					
17		23					
42		50					
59		64					
76		85					
90		99					
56.9		64.1					
of Y on X 1.0347	Intercept, bw =	5.2693					
	Dust Meter Mass Concentration (μg/m³ X-axis 17 42 59 76 90 56.9 of Y on X	Dust Meter Mass Concentration (μg/m³) X-axis 17 42 59 76 90 56.9					

^{*}If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation	Factor
Particaulate Concentration by High Volume Sampler (µg/m³)	64.1
Particaulate Concentration by Dust Meter (µg/m³)	56.9
Measureing time, (min)	60
Set Correlation Factor, SCF SCF = [K=High Volume Sampler / Dust Meter, (µg/m³)]	1.127



QC Reviewer:	the Man	Mbv Signature:	her	Date:	14/9/2024
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WELL'AB LIMITED Room 1714, Technology Park 18 On Lai Street, Shatin New Territories, Hong Kong Tel: 2898 7388 Fax: 2898 7076

Website: www.wellab.com.hk

TEST REPORT

APPLICANT: Wellab Limited

(EM&A Department)

Room 1808, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

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

Page:

: Dust Monitor

1 of 1

ATTN:

Ms. Meiling Tang

Certificate of Calibration

Item for Calibration:

Description

Manufacturer : Met One Instruments

: AEROCET-831 Model No.

Serial No. : X23810 Flow rate : 0.1 cfm

: 0 count per 1 minute Zero Count Test

: WA-01-04 Equipment No.

Test Conditions:

: 17-22 degree Celsius Room Temperature

Relative Humidity : 40-70%

Test Specifications & Methodology:

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

Results:

Correlation Factor (CF) 1.173 *******************************

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

General Manager

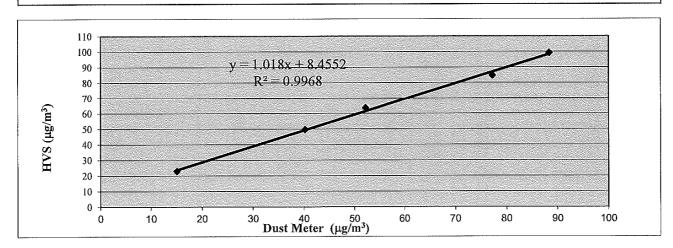
<u>TSP - Total Suspended Particulates (1 hr Dust Meter)</u> <u>Calibration Report</u>

Dust Meter	Dust Meter	High Volume Sampler	
Equipment No.:	WA-01-04	WA-12-09	
Model No. :	AEROCET-831	TE-5170	
Serial No.	X23810	2203	
Calibration Date:	13-Sep-24 13-Sep-24		
Location:	Wellab Office (Calibration Room)		

	Dust Meter	of 1 hr TSP	HVS	
Calibration Point	Mass Concentration (μg/m³)	M	ass concentration (µg/m³)	
	X-axis		Y-axis	
1	15		23	
2	40		50	
3	52		64	
4	77		85	
5	88		99	
Average	54.7		64.1	
By Linear Regression o	f Y on X			
Slope, mw =	1.0180	Intercept, bw =	8.4552	

^{*}If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation	64.1
Particaulate Concentration by High Volume Sampler (µg/m³)	
Particaulate Concentration by Dust Meter (µg/m³)	54.7
Measureing time, (min)	60
Set Correlation Factor, SCF SCF = [K=High Volume Sampler / Dust Meter, (µg/m³)]	1.173



OC Reviewer:	127	MON	1172	Signature:	he:	Date:	14/9/2024



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

TEST REPORT

APPLICANT: Wellab Limited

(EM&A Department)

Room 1808, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: 40841
Date of Issue: 2024-08-26

Date Received: 2024-08-23

Date Tested: 2024-08-23

Date Completed: 2024-08-26 Next Due Date: 2024-10-25

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.

: X24476

Flow rate

: 0.1 cfm : 0 count per 1 minute

Zero Count Test

: WA-01-05

Equipment No.

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)

1.132

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

PATŘICK TSE

General Manager

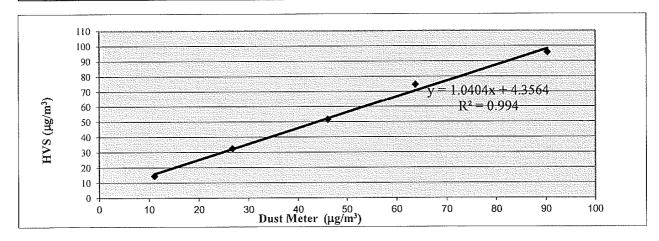
<u>TSP - Total Suspended Particulates (1 hr Dust Meter)</u> <u>Calibration Report</u>

Dust Meter	Dust Meter	High Volume Sampler	
Equipment No.:	WA-01-05	WA-12-09	
Model No. :	AEROCET-831	TE-5170	
Serial No.	X24476	2203	
Calibration Date:	23-Aug-24	23-Aug-24	
Location:	Wellab Office (Calibration Room)		

	Dust Meter	of 1 hr TSP	HVS
Calibration Point	Mass Concentration (μg/m³)	<i>N</i>	Mass concentration (μg/m³)
	X-axis		Y-axis
1	11		15
2	27		33
3	46		52
4	64		75
5	90		96
Average	47.6		53.9
By Linear Regression (Slope , mw = Correlation coefficie	1.0404	Intercept, bw =	4.3564

^{*}If Correlation Coefficient < 0.90, check and recalibrate.

Particaulate Concentration by High Volume Sampler (μg/m³)	53.9
Particaulate Concentration by Dust Meter (μg/m³)	47.6
Measureing time, (min)	60
Set Correlation Factor , SCF SCF = [K=High Volume Sampler / Dust Meter, (µg/m³)]	1.132



OC Reviewer:	LETE MA	10N L127	Signature:	hei	Date:	2418/224



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Website: www.wellab.com,hk

TEST REPORT

APPLICANT: Wellab Limited

(EM&A Department)

Room 1808, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: 41108

Date of Issue: 2024-10-28

Date Received: 2024-10-25

Date Tested: 2024-10-26

Date Completed: 2024-10-28 Next Due Date: 2024-12-27

Page:

1 of 1

ATTN:

Ms. Meiling Tang

Certificate of Calibration

Item for Calibration:

Description

: Dust Monitor

Manufacturer

: Met One Instruments

Model No.

: AEROCET-831

Serial No.

: X24476

Flow rate

: 0.1 cfm

Zero Count Test

: 0 count per 1 minute

Equipment No.

: WA-01-05

Test Conditions:

Room Temperature

: 17-22 degree Celsius

Relative Humidity

: 40-70%

Test Specifications & Methodology:

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

Results:

Correlation Factor (CF) 1.182

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

PATRICK TSE

General Manager

<u>TSP - Total Suspended Particulates (1 hr Dust Meter)</u> <u>Calibration Report</u>

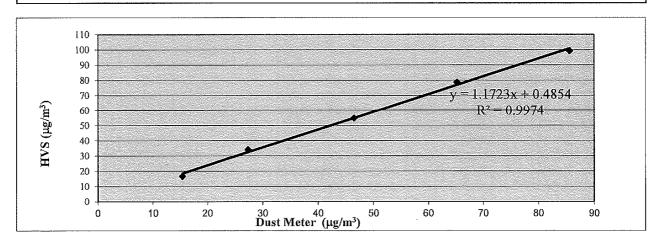
Dust Meter	Dust Meter	High Volume Sampler	
Equipment No.:	WA-01-05	WA-12-09	
Model No. :	AEROCET-831	TE-5170	
Serial No.	X24476	2203	
Calibration Date:	26-Oct-24	26-Oct-24	
Location:	Wellab Office (Calibration Room)		

	Dust Meter	HVS
alibration Point	Mass Concentration (μg/m³)	Mass concentration (μg/m³)
	X-axis	Y-axis
1	15	17
2	27	34
3	47	55
4	65	79
5	86	99
Average	48.0	56.8

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

^{*}If Correlation Coefficient < 0.90, check and recalibrate.

Particaulate Concentration by High Volume Sampler (µg/m³)	Factor 56.8
Particaulate Concentration by Dust Meter (µg/m³)	48.0
Measureing time, (min)	60
Set Correlation Factor, SCF SCF = [K=High Volume Sampler / Dust Meter, (µg/m³)]	1.182



QC Reviewer: Ltt MON Hov Signature: Les Date: 26/(0/2024



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TEST REPORT

APPLICANT: Wellab Limited

(EM&A Department)

Room 1808, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: 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 Model No.

: BSWA : 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.



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TEST REPORT

APPLICANT: Wellab Limited

(EM&A Department)

Room 1808, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.:	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:

ATTN:

Ms. Meiling Tang

Certificate of Calibration

Item for calibration:

Description

: Sound Level Meter

Manufacturer Model No.

: BSWA : BSWA 308 : 580013

Serial No. 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

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For and On Behalf of WELLAB Ltd.



WELLAB LIMITED Room 1701, Technology Park, 18 On Lai Street, Shatin, N.T., Hong Kong.

Tel: 2898 7388 Fax: 2898 7076 Website: www.wellab.com.hk

TEST REPORT

APPLICANT: Wellab Limited

(EM&A Department)

Room 1808, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Test Report No.: 40837A
Date of Issue: 2024-08-19
Date Received: 2024-08-15
Date Tested: 2024-08-15
Date Completed: 2024-08-19
Next Due Date: 2025-08-18

Page:

1 of 1

ATTN:

Ms. Meiling Tang

Certificate of Calibration

Item for calibration:

Description

: Acoustical Calibrator

Manufacturer

: SVANTEK : SV30A

Model No. 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

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For and On Behalf of WELLAB Ltd.



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Website: www.wellab.com.hk

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 Model No.

: SVANTEK : 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.

General Manager



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

41118B

2024-09-30

2024-09-27

2024-09-27

TEST REPORT

APPLICANT: Wellab Limited

(EM&A Department)

Room 1808, Technology Park,

18 On Lai Street,

Shatin, NT, Hong Kong

Page:

Test Report No.:

Date of Issue:

Date Tested:

Date Received:

Date Completed: 2024-09-30 Next Due Date: 2025-03-29

ATTN:

Ms. Meiling Tang

1 of 2

Certificate of Calibration

Item for calibration:

Description

: Weather Stations, Vantage Pro2

Manufacturer

: Davis Instruments

Model No.

: 6152CUK

Serial No.

: AK130520007

Test conditions:

Room Temperature

: 17-22 degree Celsius

Relative Humidity

: 40-70 %

Test Specifications:

- 1. Performance check of anemometer
- 2. Performance check of wind direction sensor

Methodology:

In-house method with reference anemometer

PREPARED AND CHECKED BY:

For and On Behalf of WELLAB Ltd.

General Manager



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

TEST REPORT

Test Report No.: 41118B

Date of Issue: 2024-09-30

Date Received: 2024-09-27

Date Tested: 2024-09-27

Date Completed: 2024-09-30

Next Due Date: 2025-03-29

Page:

2 of 2

Results:

1. Performance check of anemometer

Air Velocity, m/s		Difference D (m/s)
Instrument Reading (V1) Reference Value (V1)		D = V1 - V2
2.00	0.00	

2. Performance check of wind direction sensor

Wind Dire	ection (°)	Difference D (°)
Instrument Reading (W1)	Reference Value (W2)	D = W1 - W2
0	0	0
45	45	0
90.1	90	0.1
135	135	0
180	180	0
225.1	225	0.1
270	270	0
315.2	315	0.2
360	360	0



WELLAB LIMITED
Room 1714, Technology Park
18 On Lai Street, Shatin,
N.T., Hong Kong.
Tel: 2898 7388 Fax: 2898 7076

Website: www.wellab.com.hk

TEST REPORT

APPLICANT:

Wellab Limited (EM&A)

RM 1808, Technology Park,

18 On Lai Street,

Shatin, N.T., Hong Kong

Test Report No.: 40670

Date of Issue: 2024-08-16

Date Received: Date Tested:

2024-08-15 2024-08-15 to

Date Completed: 2

2024-08-16 2024-08-16

ATTN:

Miss Mei Ling Tang

Page:

1 of 2

Certificate of Calibration

Item for calibration:

YSI EXO1 Multiparameter Sondes	Equipment No.:	SW-08-106
Manufacturer:	YSI Incorporate	d, a Xylem brand
Description:	Model No.	Serial No.
- EXO1 Sonde, 100 meter Depth, 4 Sensor ports	599501-02	17B100679
- EXO Optical DO Sensor, Ti	599100-01	17B102222
- EXO conductivity/Temperature Sensor, Ti	599870	16H100180
- EXO Turbidity Sensor, Ti	599101-01	20J103611
- EXO pH Sensor Assembly, Guarded, Ti	599701	17B103613

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.

WELLAB MEZI consulting , testing , research

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

TEST REPORT

Test Report No.: 40670
Date of Issue: 2024-08-16
Date Received: 2024-08-15
Date Tested: 2024-08-15 to 2024-08-16
Date Completed: 2024-08-16

Page:

2 of 2

Certificate of Calibration

Results:

Conductivity performance checking

Conductivity periormane	e checking		
	Instrument Readings (µS/cm)	Accetance Criteria	Comment
KCl stock solution (12890 μS/cm)	13200	12246-13534	Pass
Temperature performance	e checking		
Reference thermometer- E431 Readings (°C)	Instrument Readings (°C)	Correction (°C)	Comment
20.0	20.002	-0.001	N/A
pH performance checking			
	Instrument Readings	Accetance Criteria	Comment

	Instrument Readings	Accetance Criteria	Comment
	(pH unit)		
pH QC buffer 4.00	4.04	4.00 ± 0.10	Pass
pH QC buffer 6.86	6.87	6.86 ± 0.10	Pass
pH QC buffer 9.18	9.25	9.18 ± 0.10	Pass

D.O. performance checking

	Instrument Readings (mg/L)	Accetance Criteria	Comment
Zero DO soultion	0.09	<0.1mg/L	Pass

Winkler Titration value (mg/L)	Instrument Readings (mg/L)	Accetance Criteria	Comment
8.04	8.10	Difference between Titration value and instrument reading <0.2mg/L	Pass

Turbidity performance checking

	Turbidity stock solution	Instrument Readings (NTU)	Accetance Criteria	Comment
	10 NTU 10.26		9.0-11.0	Pass
50 NTU 5		51.02	45.0-55.0	Pass
	100 NTU	101.9	90.0-110.0	Pass

Depth performance checking

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

APPENDIX D ENVIRONMENTAL MONITORING SCHEDULES

Service Contract No. WD/04/2020

Development of Lok Ma Chau Loop: Main Works Package 1 – Environmental Team Impact Monitoring Schedule (October 2024)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1-Oct	2-Oct	3-Oct	4-Oct	5-Oc
			Aquatic Fauna Survey (Water			
			Quality Monitoring only)			
				1hr TSP X 3		
				Noise		
			24hr TSP	Avifauna (Pond 12)		
			Water Quality Monitoring		Water Quality Monitoring	
6-Oct	7-Oct	8-Oct	9-Oct	10-Oct	11-Oct	12-Oc
	Aquatic Fauna Survey (Water					
	Quality Monitoring only)					
			1hr TSP X 3			
			Noise			
		24hr TSP		Avifauna (Pond 12)		
	Water Quality Monitoring		Water Quality Monitoring			Water Quality Monitoring
13-Oct	14-Oct	15-Oct	16-Oct	17-Oct	18-Oct	19-Oc
			Aquatic Fauna Survey (Water			
		II TOD W 2	Quality Monitoring only)			
		1hr TSP X 3				
	24hr TSP	Noise	4 'C (D 112)	II . C . C	24hr TSP	
			Avifauna (Pond 12)	Herpetofauna Survey		
20-Oct	Water Quality Monitoring 21-Oct	22-Oct	Water Quality Monitoring 23-Oct	24-Oct	Water Quality Monitoring 25-Oct	26-Oc
20-001	21-001	22-Oct	23-001	24-Oct	23-001	26-00
	1hr TSP X 3				1hr TSP X 3	
	Noise				1111 131 X 3	
	Avifauna (Pond 12)		Aquatic Fauna Survey	24hr TSP	Avifauna (Flightline Survey)	
	Water Quality Monitoring		Water Quality Monitoring	2411 131	Water Quality Monitoring	
27-Oct	28-Oct	29-Oct	30-Oct	31-Oct	water Quarity Monitoring	
27-00	23-001	23-001	Aquatic Fauna Survey (Water	31-001		
			Quality Monitoring only)			
			Quanty Monitoring only)	1hr TSP X 3		
			Avifauna (Pond 12)	Noise		
			24hr TSP	110130		
	Water Quality Monitoring		Water Quality Monitoring			
	" ater Quarty Wontoning		" ater Quarty Worldon			

Air Quality Monitoring Station

DMS-1a - Village House along Ha Wan Tsuen East Road
DMS-2B - Site boundary near Village House along Lok Ma Chau
DMS-3 - Village house along Old Border Road
DMS-4A - Hong Kong Police Force, Lok Ma Chau Operation Base at Horn Hill

Noise Monitoring Station

NMS-1 - Village House in Ha Wan Tsuen NMS-2 - Village house along existing Ha Wan Tsuen East Road

NMS-3 - Village house along Old Border Road

NMS-4A - Hong Kong Police Force, Lok Ma Chau Operation Base at Horn Hill

Water Quality Monitoring Station

CS1 - Control Station at Old Shenzhen River Meander IS1 - Impact Station at Old Shenzhen River Meander

IS2 - Impact Station at Old Shenzhen River Meander

IS4 - Impact Station for at Ping Hang Stream

CS5 - Control Station at channel at south of Lung Hau Road

IS6 - Impact Station next to Lung Hau Road

BS1 - Impact Station at Old Shenzhen River Meander

(Terminated starting from 28 June 2021- approved by EPD

via email dated 22 June 2021)

Service Contract No. WD/04/2020

Development of Lok Ma Chau Loop: Main Works Package 1 - Environmental Team

Tentative Impact Monitoring Schedule (November 2024)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1-Nov	2-Nov
					Water Quality Monitoring	
3-Nov	4-Nov	5-Nov	6-Nov	7-Nov	8-Nov	9-Nov
2 1.07		2 1.01	Aquatic Fauna Survey (Water	, 1.6	0 1.01	71.0.
			Quality Monitoring only)			
			1hr TSP X 3			
			Noise			
		24hr TSP		Avifauna (Pond 12)		
	Water Quality Monitoring		Water Quality Monitoring		Water Quality Monitoring	
10-Nov	11-Nov	12-Nov	13-Nov	14-Nov	15-Nov	16-Nov
			Aquatic Fauna Survey (Water			
		11 TOD 3/ 2	Quality Monitoring only)			
	A :C (D 112)	1hr TSP X 3				
	Avifauna (Pond 12) 24hr TSP	Noise			24hr TSP	
	Water Quality Monitoring		Water Quality Monitoring		Water Quality Monitoring	
17-Nov	water Quanty Monitoring 18-Nov	19-Nov	20-Nov	21-Nov	22-Nov	23-Nov
17-1407	Aquatic Fauna Survey (Water	19-1101	20-1107	21-1101	22-1101	23-1101
	Quality Monitoring only)					
	1hr TSP X 3				1hr TSP X 3	
	Noise					
	Avifauna (Pond 12)			24hr TSP		
	Water Quality Monitoring		Water Quality Monitoring		Water Quality Monitoring	
24-Nov	25-Nov	26-Nov	27-Nov	28-Nov	29-Nov	30-Nov
		Aquatic Fauna Survey				
		1		11 TOD V 2		
				1hr TSP X 3 Noise		
	Avifauna (Pond 12)		24hr TSP	Noise	Aviformo (Elichtlino Sumro-)	
	Water Quality Monitoring		Water Quality Monitoring		Avifauna (Flightline Survey) Water Quality Monitoring	
	water Quanty Monitoring		water Quanty Monitoring		water Quality Monitoring	

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

Air Quality Monitoring Station

DMS-1a - Village House along Ha Wan Tsuen East Road DMS-2B - Site boundary near Village House along Lok Ma Chau

DMS-3 - Village house along Old Border Road

DMS-4A - Hong Kong Police Force, Lok Ma Chau Operation Base at Horn Hill

Noise Monitoring Station

NMS-1 - Village House in Ha Wan Tsuen

NMS-2 - Village house along existing Ha Wan Tsuen East Road

NMS-3 - Village house along Old Border Road

NMS-4A - Hong Kong Police Force, Lok Ma Chau Operation Base at Horn Hill

Water Quality Monitoring Station

CS1 - Control Station at Old Shenzhen River Meander

IS1 - Impact Station at Old Shenzhen River Meander

IS2 - Impact Station at Old Shenzhen River Meander

IS4 - Impact Station for at Ping Hang Stream

CS5 - Control Station at channel at south of Lung Hau Road

IS6 - Impact Station next to Lung Hau Road

BS1 - Impact Station at Old Shenzhen River Meander

(Terminated starting from 28 June 2021- approved by EPD

via email dated 22 June 2021)

APPENDIX E 1-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATION

Appendix E - 1-hour TSP Monitoring Results

ocation DMS-1a - Village House along Ha Wan Tsuen East Road			
Date	Time	Weather	Particulate Concentration (μg/m³)
3-Oct-24	13:00	Sunny	179.0
3-Oct-24	14:00	Sunny	145.5
3-Oct-24	15:00	Sunny	156.0
9-Oct-24	8:00	Fine	107.6
9-Oct-24	9:00	Fine	154.5
9-Oct-24	10:00	Fine	174.3
15-Oct-24	8:10	Sunny	65.9
15-Oct-24	9:10	Sunny	63.6
15-Oct-24	10:10	Sunny	70.1
21-Oct-24	9:00	Sunny	78.7
21-Oct-24	10:00	Sunny	82.5
21-Oct-24	11:00	Sunny	47.9
25-Oct-24	8:30	Fine	139.8
25-Oct-24	9:30	Fine	133.1
25-Oct-24	10:30	Fine	118.7
31-Oct-24	8:40	Sunny	146.7
31-Oct-24	9:40	Sunny	161.4
31-Oct-24	10:40	Sunny	163.5
		Minimum	47.9
		Maximum	179.0
	Ţ	Average	121.6

Date	Time	Weather	Particulate Concentration (µg/m³)
3-Oct-24	8:30	Sunny	132.0
3-Oct-24	9:30	Sunny	93.6
3-Oct-24	10:30	Sunny	90.8
9-Oct-24	8:00	Fine	82.5
9-Oct-24	9:00	Fine	89.8
9-Oct-24	10:00	Fine	77.7
15-Oct-24	9:00	Sunny	103.8
15-Oct-24	10:00	Sunny	85.7
15-Oct-24	11:00	Sunny	54.3
21-Oct-24	9:00	Sunny	55.1
21-Oct-24	10:00	Sunny	87.5
21-Oct-24	11:00	Sunny	64.1
25-Oct-24	8:30	Fine	129.7
25-Oct-24	9:30	Fine	106.4
25-Oct-24	10:30	Fine	99.1
31-Oct-24	8:35	Sunny	120.1
31-Oct-24	9:35	Sunny	141.8
31-Oct-24	10:35	Sunny	110.8
		Minimum	54.3
		Maximum	141.8
		Average	95.8

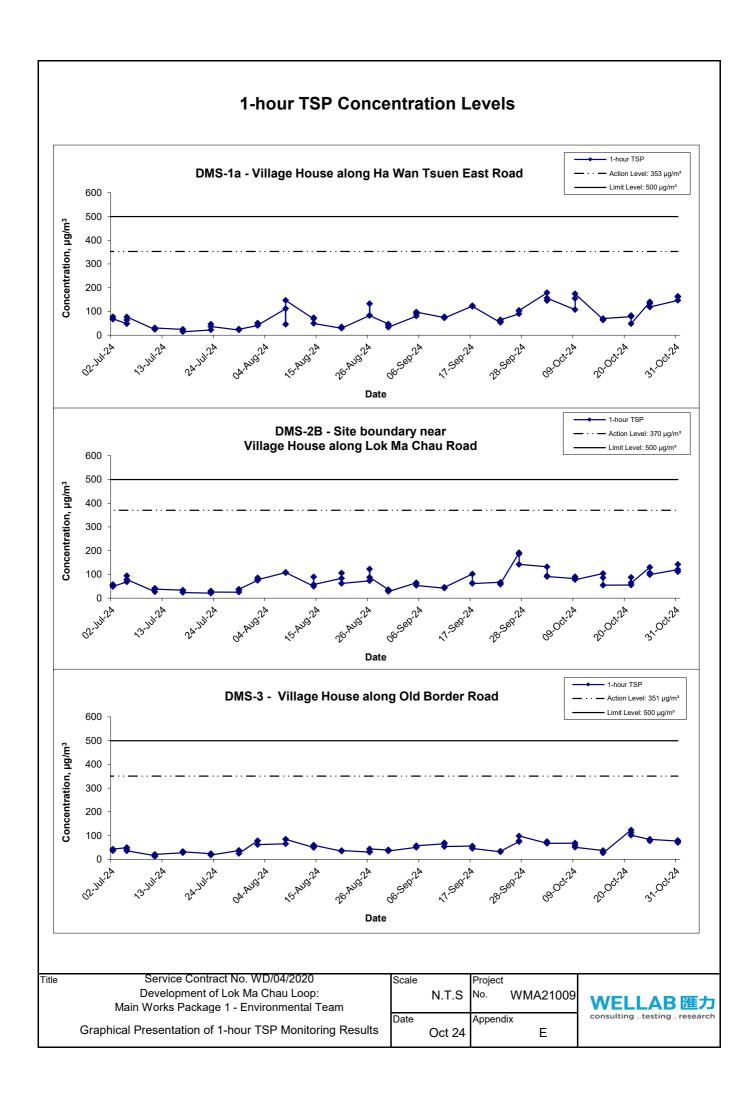
WMA21009\1-hr TSP Results Wellab

Appendix E - 1-hour TSP Monitoring Results

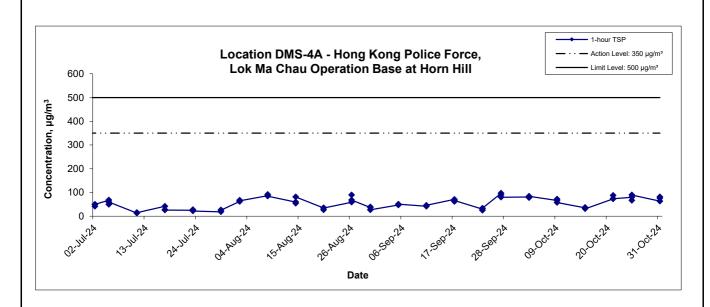
ocation DMS-3 - Village House along Old Border Road			
Date	Time	Weather	Particulate Concentration (µg/m³)
3-Oct-24	13:30	Sunny	67.3
3-Oct-24	14:30	Sunny	74.8
3-Oct-24	15:30	Sunny	67.4
9-Oct-24	8:00	Fine	68.2
9-Oct-24	9:00	Fine	59.7
9-Oct-24	10:00	Fine	50.6
15-Oct-24	13:00	Sunny	36.7
15-Oct-24	14:00	Sunny	29.9
15-Oct-24	15:00	Sunny	26.5
21-Oct-24	8:45	Cloudy	123.3
21-Oct-24	9:45	Cloudy	112.7
21-Oct-24	10:45	Cloudy	101.8
25-Oct-24	13:50	Fine	83.2
25-Oct-24	14:50	Fine	77.2
25-Oct-24	15:50	Fine	84.1
31-Oct-24	8:30	Sunny	76.6
31-Oct-24	9:30	Sunny	79.3
31-Oct-24	10:30	Sunny	70.2
		Minimum	26.5
		Maximum	123.3
		Average	71.6

Location DMS-4A - Hong Kong Police Force, Lok Ma Chau Operation Base at Horn Hill			
Date	Time	Weather	Particulate Concentration (μg/m³)
3-Oct-24	9:00	Sunny	80.8
3-Oct-24	10:00	Sunny	78.0
3-Oct-24	11:00	Sunny	83.7
9-Oct-24	13:00	Fine	66.3
9-Oct-24	14:00	Fine	71.8
9-Oct-24	15:00	Fine	57.4
15-Oct-24	13:00	Sunny	34.9
15-Oct-24	14:00	Sunny	36.5
15-Oct-24	15:00	Sunny	31.4
21-Oct-24	13:00	Sunny	73.0
21-Oct-24	14:00	Sunny	87.6
21-Oct-24	15:00	Sunny	73.3
25-Oct-24	8:45	Fine	80.0
25-Oct-24	9:45	Fine	66.3
25-Oct-24	10:45	Fine	89.1
31-Oct-24	13:00	Sunny	63.2
31-Oct-24	14:00	Sunny	75.8
31-Oct-24	15:00	Sunny	81.6
		Minimum	31.4
		Maximum	89.1
		Average	68.4

WMA21009\1-hr TSP Results Wellab



1-hour TSP Concentration Levels



Service Contract No. WD/04/2020
Development of Lok Ma Chau Loop:
Main Works Package 1 - Environmental Team
Graphical Presentation of 1-hour TSP Monitoring Results

Title

Scale N.T.S Project
No. WMA21009

Date Appendix
Oct 24 E



APPENDIX F 24-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATION

Appendix F - 24-hour TSP Monitoring Results

Location DMS-	1a - Village H	House along Ha Wai	n Tsuen East Road
Date	Time	Weather	Particulate Concentration (μg/m³)
2-Oct-24	8:10	Sunny	134.2
8-Oct-24	8:00	Fine	89.0
14-Oct-24	8:10	Sunny	41.2
18-Oct-24	10:00	Sunny	41.2
24-Oct-24	8:30	Fine	142.9
30-Oct-24	8:40	Sunny	82.5
		Minimum	41.2
		Maximum	142.9
		Average	88.5

Location DMS-2	2B - Site bou	ndary near Village H	louse along Lok Ma Chau Road
Date	Time	Weather	Particulate Concentration (μg/m³)
2-Oct-24	8:30	Sunny	93.6
8-Oct-24	8:00	Fine	84.2
14-Oct-24	8:20	Sunny	95.9
18-Oct-24	9:00	Sunny	72.7
24-Oct-24	8:30	Fine	89.4
30-Oct-24	8:35	Sunny	77.8
		Minimum	72.7
		Maximum	95.9
		Average	85.6

WMA21009\1-hr TSP Results Wellab

Appendix F - 24-hour TSP Monitoring Results

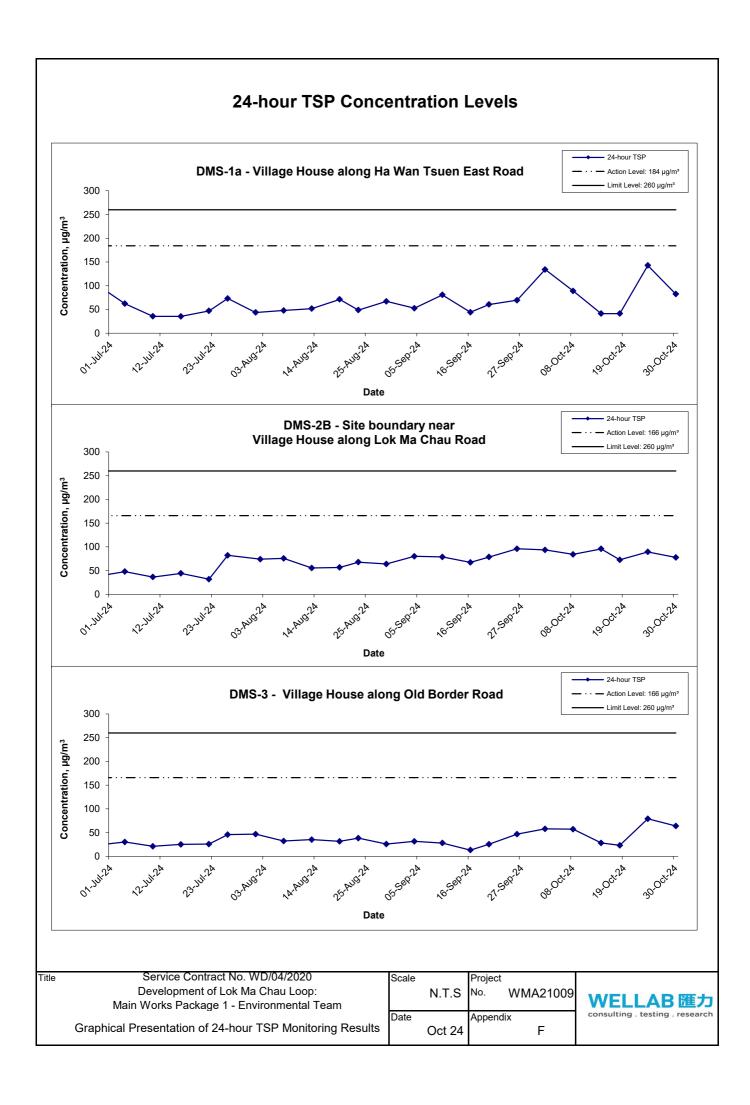
Location DMS-3 - Village House along Old Border Road

Start Date	Weather	Air	Atmospheric	Filter W	eight (g)	Particulate	Elapse	e Time	Sampling	Flow Rate	e (m³/min.)	Av. flow	Total vol.	Conc.
Start Date	Condition	Temp. (K)	Pressure, Pa (mmHg)	Initial	Final	weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m ³ /min)	(m ³)	(µg/m ³)
2-Oct-24	Sunny	299.3	760.6	4.2756	4.3784	0.1028	1137.4	1161.4	24.0	1.233	1.240	1.236	1780.2	57.7
8-Oct-24	Sunny	300.1	763.7	4.3440	4.4437	0.0997	1161.4	1185.4	24.0	1.213	1.214	1.214	1747.5	57.1
14-Oct-24	Sunny	299.3	763.4	4.3006	4.3500	0.0494	1185.4	1209.4	24.0	1.215	1.215	1.215	1749.8	28.2
18-Oct-24	Sunny	299.1	763.5	4.3146	4.3549	0.0403	1209.4	1233.4	24.0	1.215	1.216	1.216	1750.6	23.0
24-Oct-24	Sunny	296.7	760.3	4.3380	4.4768	0.1388	1233.4	1257.4	24.0	1.221	1.215	1.218	1754.5	79.1
30-Oct-24	Sunny	296.8	760.6	4.3527	4.4650	0.1123	1257.4	1281.4	24.0	1.217	1.220	1.218	1754.5	64.0
													Min	23.0
													Max	79.1
													Average	51.5

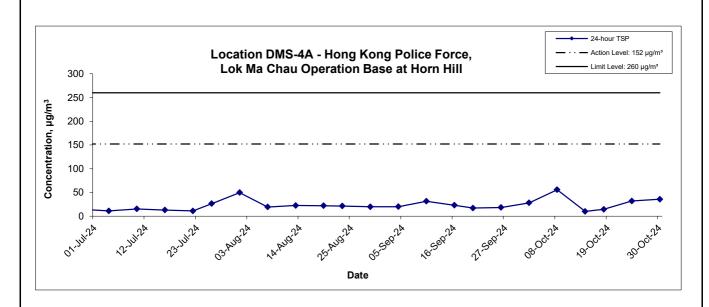
Location DMS-4A - Hong Kong Police Force, Lok Ma Chau Operation Base at Horn Hill

Start Date	Weather	Air	Atmospheric	Filter W	eight (g)	Particulate	Elapse	e Time	Sampling	Flow Rate	e (m³/min.)	Av. flow	Total vol.	Conc.
Start Date	Condition	Temp. (K)	Pressure, Pa (mmHg)	Initial	Final	weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m ³ /min)	(m ³)	(µg/m ³)
2-Oct-24	Sunny	299.3	760.6	4.2896	4.3393	0.0497	35933.4	35957.4	24.0	1.229	1.236	1.232	1774.3	28.0
8-Oct-24	Sunny	300.1	763.7	4.2843	4.3813	0.0970	35957.4	35981.4	24.0	1.209	1.210	1.209	1741.2	55.7
14-Oct-24	Sunny	299.3	763.4	4.3271	4.3445	0.0174	35981.4	36005.4	24.0	1.210	1.211	1.211	1743.2	10.0
18-Oct-24	Sunny	299.1	763.5	4.2932	4.3183	0.0251	36005.4	36029.4	24.0	1.211	1.211	1.211	1744.0	14.4
24-Oct-24	Sunny	296.7	760.3	4.3040	4.3599	0.0559	36029.4	36053.4	24.0	1.216	1.211	1.214	1747.7	32.0
30-Oct-24	Sunny	296.8	760.6	4.3119	4.3742	0.0623	36053.4	36077.4	24.0	1.212	1.215	1.214	1747.6	35.6
													Min	10.0
													Max	55.7
													Average	29.3

WMA21009\24-hr TSP Results Wellab



24-hour TSP Concentration Levels



Title Service Contract No. WD/04/2020
Development of Lok Ma Chau Loop:
Main Works Package 1 - Environmental Team
Graphical Presentation of 24-hour TSP Monitoring Results

Scale		Project	
	N.T.S	No.	WMA21009
Date		Append	ix
	Oct 24		F



APPENDIX G NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATION

Appendix G - Noise Monitoring Results

Location NMS	-1 -Village ho	use in Ha W	an Tsuen								
D-4-) A / 4	T:	Un	it: dB (A) (5-n	nin)	Average	Baseline Level				
Date	Weather	Time	L _{eq}	L ₁₀	L 90	L _{eq}	L eq				
		09:40	65.5	68.6	61.1						
		09:45	66.3	69.4	62.2						
3-Oct-24	Sunny	09:50	66.2	68.9	62.2	65.4					
3-001-24	Suring	09:55	60.4	62.1	58.3	03.4					
		10:00	63.3	66.8	58.3						
		10:05	67.5	70.6	62.5						
		10:00	61.2	62.8	59.2		1				
		10:05	62.5	64.2	60.6						
9-Oct-24	Cloudy	10:10	62.5	64.3	60.1	62.9					
9-001-24	Cloudy	10:15	62.7	65.0	59.9	02.9					
		10:20	63.3	66.2	60.4						
		10:25	64.5	67.1	60.6						
		14:15	63.9	67.2	58.2						
		14:20	61.5	64.8	56.1						
45.0-4.04	Sunny	14:25	56.0	57.5	53.9	59.9					
15-Oct-24		Sunny	Sunny	Sunny	Sunny	Sunny	14:30	56.8	58.4	54.1	59.9
		14:35	56.8	58.5	54.3						
		14:40	57.8	59.1	55.1						
		13:00	59.5	62.0	56.4						
		13:05	58.0	59.6	55.1						
04 0-4 04	0	13:10	61.8	66.2	55.9	50.0					
21-Oct-24	Sunny	13:15	57.2	58.8	55.3	59.0					
		13:20	57.1	59.6	54.7						
		13:25	58.1	60.5	54.5						
		14:00	59.0	61.1	55.3		7				
		14:05	59.6	62.2	56.9						
04.0-4.04	0	14:10	60.4	62.0	56.0	00.4					
31-Oct-24	Sunny	14:15	59.9	62.2	55.7	, 60.1					
		14:20	59.1	61.1	56.0						
		14:25	62.0	65.7	56.4						

			Un	it: dB (A) (5-r	min)	Average	Baseline Leve
Date	Weather	Time	L eq	L ₁₀	L 90	L _{eq}	L _{eq}
		11:15	73.0	76.8	55.9		
		11:20	71.7	75.8	55.2		
3-Oct-24	Sunny	11:25	72.0	76.2	57.5	72.4	
3-001-24	Suring	11:30	73.7	76.5	57.8	12.4	
		11:35	71.9	75.2	59.7		
		11:40	71.8	75.4	61.5		
		11:05	71.6	75.7	59.8		
		11:10	71.8	75.8	57.7		
9-Oct-24	Cloudy	11:15	73.0	76.5	68.4	72.4	
9-001-24	Cloudy	11:20	73.0	75.9	68.3	12.4	
		11:25	72.9	76.0	68.7		
		11:30	71.8	75.5	63.1		
		13:30	70.7	74.7	56.2		
		13:35	74.8	76.5	57.2		
15-Oct-24	C	13:40	70.0	74.1	57.8	72.2	00.4
15-001-24	Sunny	13:45	72.7	76.9	55.9	12.2	68.4
		13:50	71.8	76.5	55.6		
		13:55	71.6	76.2	57.6		
		14:00	71.7	75.5	58.7		
		14:05	72.4	76.1	55.3		
21-Oct-24	C	14:10	70.3	74.0	55.2	74.4	
21-Oct-24	Sunny	14:15	73.4	76.5	57.0	71.4	
		14:20	70.4	74.3	57.8		
		14:25	68.2	71.7	54.0		
31-Oct-24		15:05	71.3	71.5	58.0		
		15:10	67.4	72.2	54.2		
	Common	15:15	73.3	77.2	55.5	70.4	
31-UCT-24	Sunny	15:20	70.2	73.5	56.0	70.4	
01 00121		15:25	69.0	73.0	55.7	70.4	
		15:30	68.2	71.0	54.2		

WMA21009/Noise Results Wellab

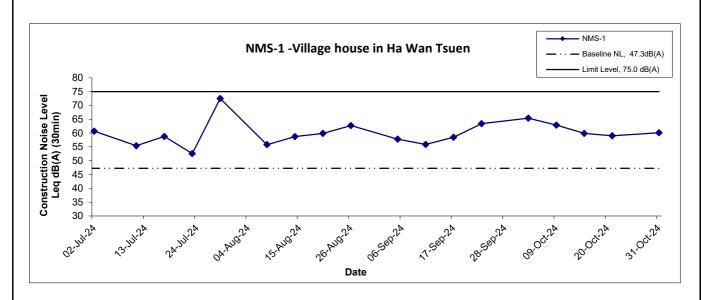
Appendix G - Noise Monitoring Results

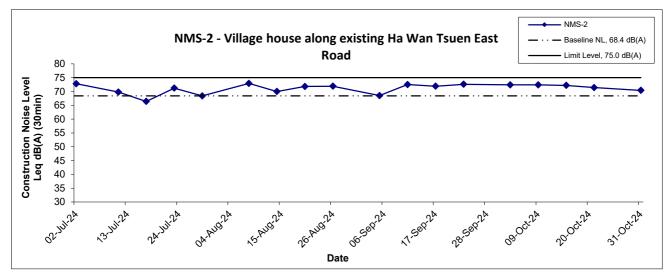
·	\A/ /I	- ·	Un	it: dB (A) (5-r	nin)	Average	Baseline Level
Date	Weather	Time	L eq	L ₁₀	L 90	L _{eq}	L _{eq}
		13:40	51.9	53.9	47.6		
		13:45	54.5	57.3	50.9		
3-Oct-24	Sunny	13:50	55.5	58.0	52.0	54.3	
3-001-24	Suring	13:55	54.3	57.4	50.7	34.3	
		14:00	53.5	56.5	50.8		
		14:05	55.1	58.0	50.6		
		08:45	47.4	48.9	45.2		
		08:50	50.1	52.8	45.9		
9-Oct-24	Cloudy	08:55	50.9	52.7	47.1	49.9	
9-001-24	Cloudy	09:00	50.8	52.5	49.0	49.9	
		09:05	49.9	51.6	48.4		
		09:10	49.2	50.4	48.2		
		15:00	54.2	56.7	48.6		
		15:05	56.7	60.5	49.6		
45 0-4 04	C	15:10	53.3	56.5	48.4	E4.7	50.0
15-Oct-24	Sunny	15:15	54.1	57.5	48.7	54.7	56.2
		15:20	56.0	58.1	50.1		
		15:25	52.1	54.8	48.7		
		15:50	49.2	52.2	40.7		
		15:55	46.4	48.1	40.1		
24 0-4 24	C	16:00	48.6	50.9	40.1	47.0	
21-Oct-24	Sunny	16:05	50.2	53.0	40.7	47.9	
		16:10	45.2	47.4	40.3		
		16:15	45.6	48.4	39.7		
		11:10	52.0	54.4	50.3		7
31-Oct-24		11:15	53.2	55.9	50.3		
	0	11:20	51.2	52.5	49.8	57.0	
	Sunny	11:25	52.2	53.8	50.5	57.0	
		11:30	51.0	52.3	50.0		
		11:35	63.4	55.7	50.6		

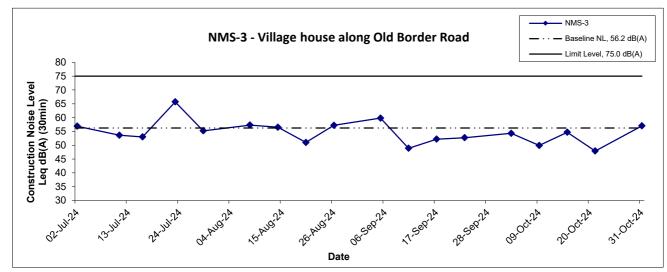
Location NMS	-4A - Hong Ko	ong Police F					
Date	Weather	Time	Un	it: dB (A) (5-r	nin)	Average	Baseline Level
Date	vvealilei	Tille	L _{eq}	L ₁₀	L 90	L _{eq}	L _{eq}
		09:00	52.6	53.9	51.5		
		09:05	52.2	53.1	51.4		
3-Oct-24	Sunny	09:10	53.2	55.0	51.7	52.3	
3-001-24	Guilly	09:15	52.2	53.1	52.1	32.3	
		09:20	52.1	53.8	51.0		
		09:25	51.3	51.8	50.7		
		13:15	51.0	51.7	50.2		
		13:20	51.4	52.1	50.0		
9-Oct-24	Cloudy	13:25	51.0	52.2	50.1	50.9	
9-001-24	Cloudy	13:30	50.4	51.1	49.8	30.9	
		13:35	50.6	51.3	49.9		
		13:40	50.7	51.6	49.9		
		15:50	51.0	51.2	49.3		
		15:55	52.5	53.8	51.1		
15-Oct-24	Cuppy	16:00	52.0	52.9	50.7	54.3	50.5
15-001-24	Sunny	16:05	54.4	57.3	50.5	54.5	52.5
		16:10	55.5	58.8	51.2		
		16:15	57.2	61.8	52.4		
		15:05	50.4	51.8	48.6		
		15:10	53.4	55.5	48.9		
21-Oct-24	0	15:15	53.9	55.4	49.0	50.7	
21-Oct-24	Sunny	15:20	53.4	57.3	48.1	53.7	
		15:25	54.2	56.2	48.6		
		15:30	55.3	59.9	49.0		
		13:10	51.1	53.9	47.1		7
		13:15	48.8	50.3	46.8		
24 0-4 24	Common	13:20	47.6	48.7	46.4	40.0	
31-Oct-24	Sunny	13:25	48.9	50.3	47.2	48.9	
31-001-24		13:30	47.8	49.0	46.1		
		13:35	48.0	49.9	46.0		

WMA21009/Noise Results Wellab

Noise Levels







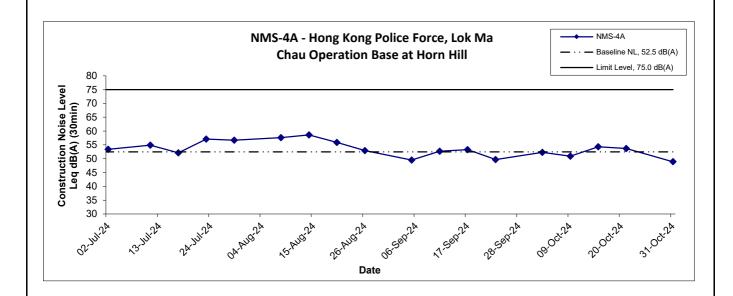
Development of Lok Ma Chau Loop: Main Works Package 1 - Environmental Team Graphical Presentation of Construction Noise Monitoring Results

Service Contract No. WD/04/2020

Title

WELLAB 匯力 consulting . testing . research

Noise Levels



Title Service Contract No. WD/04/2020 Scale Project Development of Lok Ma Chau Loop: No. WMA21009 N.T.S Main Works Package 1 - Environmental Team Appendix consulting . testing . research Date Graphical Presentation of Construction Noise Monitoring G Oct 24 Results

APPENDIX H
WATER QUALITY MONITORING
RESULTS AND GRAPHICAL
PRESENTATION

Water Quality Monitoring Results at CS1

Date	Weather	Sea	Sampling	Deni	th (m)	Tempera	ature (°C)	ŗ	Н	Salin	ity ppt	DO Satu	ration (%)	Dissolved O	xygen (mg/L)	Turbid	ity(NTU)	Suspended	Solids (mg/L)
Date	Condition	Condition**	Time	Бер	(111)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
2-Oct-24	Sunny	Calm	15:29	Middle	0.5	30.7 30.7	30.7	8.1 8.1	8.1	0.6 0.6	0.6	113.6 113.7	113.7	8.5 8.5	8.5	9.7 9.7	9.7	15 14	14.5
4-Oct-24	Sunny	Calm	17:21	Middle	0.2	31.3 31.3	31.3	8.2 8.2	8.2	0.3 0.3	0.3	103.9 103.8	103.9	7.7 7.7	7.7	10.3 10.3	10.3	6 5	5.5
7-Oct-24	Sunny	Calm	15:07	Middle	0.5	32.5 32.5	32.5	7.6 7.6	7.6	0.6 0.6	0.6	94.6 94.6	94.6	6.8 6.8	6.8	10.6 11.1	10.9	5 6	5.5
9-Oct-24	Fine	Calm	10:26	Middle	0.6	26.1 26.1	26.1	7.4 7.4	7.4	0.6 0.6	0.6	83.7 83.7	83.7	6.8 6.8	6.8	6.5 6.5	6.5	3	2.8
12-Oct-24	Sunny	Calm	11:51	Middle	0.2	29.5 29.5	29.5	7.9 7.9	7.9	0.7 0.7	0.7	112.3 112.8	112.6	8.5 8.6	8.6	7.5 7.4	7.5	4 4	4.0
14-Oct-24	Sunny	Calm	15:53	Middle	0.5	32.1 32.1	32.1	7.8 7.8	7.8	0.7 0.7	0.7	110.5 110.5	110.5	8.0 8.0	8.0	6.8 6.9	6.9	10 10	10.0
16-Oct-24	Sunny	Calm	12:58	Middle	0.5	31.3 31.4	31.4	7.4 7.5	7.5	1.1 1.1	1.1	121.1 121.2	121.2	8.9 8.9	8.9	7.7 7.8	7.8	15 15	15.0
18-Oct-24	Sunny	Calm	14:31	Middle	0.5	31.2 31.2	31.2	8.1 8.1	8.1	1.2 1.2	1.2	105.1 105.1	105.1	7.7 7.7	7.7	7.1 7.1	7.1	7 8	7.5
21-Oct-24	Sunny	Calm	11:49	Middle	0.5	32.6 32.6	32.6	9.4 9.4	9.4	1.6 1.6	1.6	104.4 104.3	104.4	7.5 7.5	7.5	10.9 11.1	11.0	14 13	13.5
23-Oct-24	Sunny	Calm	10:19	Middle	0.2	27.0 27.0	27.0	8.0 8.0	8.0	0.3 0.2	0.3	88.9 88.7	88.8	7.1 7.1	7.1	8.1 8.0	8.1	26 25	25.5
25-Oct-24	Sunny	Calm	09:49	Middle	0.6	25.4 25.4	25.4	7.1 7.2	7.2	2.3 2.3	2.3	80.6 80.6	80.6	6.5 6.5	6.5	10.8 12.0	11.4	24 24	24.0
28-Oct-24	Cloudy	Calm	15:05	Middle	0.5	25.3 25.3	25.3	8.1 8.1	8.1	2.5 2.5	2.5	59.9 60.4	60.2	4.9 4.9	4.9	7.2 7.0	7.1	11 12	11.5
30-Oct-24	Sunny	Calm	13:35	Middle	0.6	28.0 28.0	28.0	8.2 8.2	8.2	2.6 2.6	2.6	83.0 83.0	83.0	6.4 6.4	6.4	5.0 5.1	5.1	7 7	7.0

Water Quality Monitoring Results at CS5

Date	Weather	Sea	Sampling	Deni	th (m)	Tempera	ature (°C)	ŗ	Н	Salin	ity ppt	DO Satu	ration (%)	Dissolved C	xygen (mg/L)	Turbid	ity(NTU)	Suspended	Solids (mg/L)
Date	Condition	Condition**	Time	Бер	ui (iii <i>)</i>	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
2-Oct-24	Sunny	Calm	14:43	Middle	0.1	32.3 32.3	32.3	9.5 9.5	9.5	0.2 0.2	0.2	212.7 212.5	212.6	15.5 15.4	15.5	20.6 20.5	20.6	7 6	6.5
4-Oct-24	Sunny	Calm	16:29	Middle	0.1	32.9 32.9	32.9	8.0 8.0	8.0	0.5 0.5	0.5	83.1 83.3	83.2	6.0 6.0	6.0	27.3 27.3	27.3	7 7	7.0
7-Oct-24	Sunny	Calm	16:00	Middle	0.1	31.5 31.5	31.5	8.8 8.8	8.8	0.2 0.2	0.2	119.6 119.7	119.7	8.8 8.8	8.8	8.6 8.5	8.6	12 11	11.5
9-Oct-24	Fine	Calm	08:41	Middle	0.1	25.8 25.8	25.8	7.7 7.7	7.7	0.2 0.2	0.2	94.6 94.6	94.6	7.7 7.7	7.7	5.6 5.5	5.6	3 3	2.5
12-Oct-24	Sunny	Calm	10:57	Middle	0.1	28.6 28.6	28.6	8.0 8.0	8.0	1.9 1.9	1.9	99.7 99.7	99.7	7.7 7.7	7.7	17.4 17.3	17.4	3 3	3.0
14-Oct-24	Sunny	Calm	15:05	Middle	0.1	32.9 32.9	32.9	9.7 9.7	9.7	0.2 0.2	0.2	128.4 128.4	128.4	9.2 9.2	9.2	12.2 12.2	12.2	32 30	31.0
16-Oct-24	Sunny	Calm	13:46	Middle	0.1	34.1 34.1	34.1	9.5 9.5	9.5	0.2 0.2	0.2	172.9 172.9	172.9	12.2 12.2	12.2	12.8 12.7	12.8	8 9	8.5
18-Oct-24	Sunny	Calm	15:45	Middle	0.2	30.4 30.4	30.4	9.3 9.3	9.3	0.2 0.2	0.2	120.3 120.5	120.4	9.0 9.0	9.0	12.6 12.4	12.5	9 8	8.5
21-Oct-24	Sunny	Calm	10:43	Middle	0.1	28.5 28.5	28.5	8.9 8.9	8.9	0.2 0.2	0.2	134.9 135.1	135.0	10.5 10.5	10.5	7.2 7.3	7.3	14 14	14.0
23-Oct-24	Sunny	Calm	09:12	Middle	0.1	29.3 29.3	29.3	9.3 9.3	9.3	0.2 0.2	0.2	108.6 108.7	108.7	8.3 8.3	8.3	11.6 11.6	11.6	4	4.0
25-Oct-24	Sunny	Calm	10:41	Middle	0.1	23.6 23.6	23.6	7.2 7.2	7.2	0.2 0.2	0.2	100.3 100.2	100.3	8.5 8.5	8.5	5.9 6.0	6.0	11 12	11.5
28-Oct-24	Cloudy	Calm	14:15	Middle	0.1	25.1 25.1	25.1	8.9 8.9	8.9	0.2 0.2	0.2	124.9 124.9	124.9	10.3 10.3	10.3	6.6 6.6	6.6	4 4	4.0
30-Oct-24	Sunny	Calm	14:21	Middle	0.1	28.4 28.4	28.4	9.8 9.8	9.8	0.1 0.1	0.1	187.2 187.3	187.3	14.6 14.6	14.6	8.0 7.7	7.9	7 8	7.5

Water Quality Monitoring Results at IS1

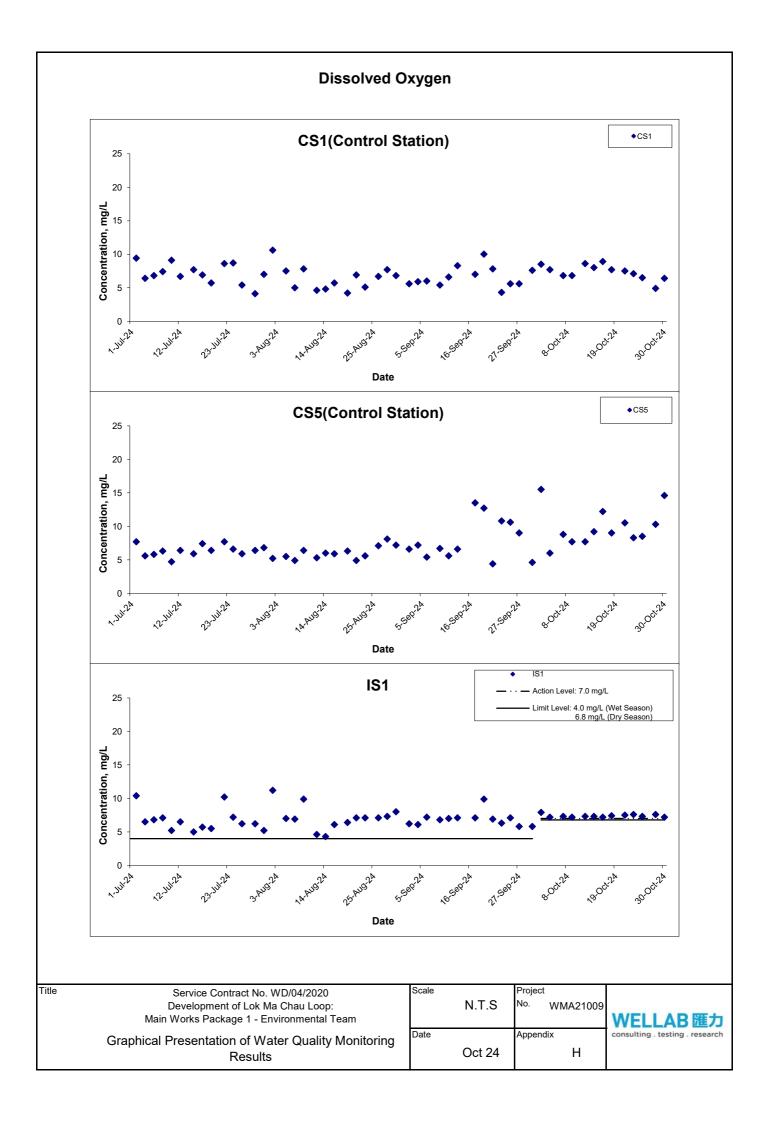
Date	Weather	Sea	Sampling	Dent	h (m)	Tempera	ature (°C)	ŗ	Н	Salin	ity ppt	DO Satu	ration (%)	Dissolved O	xygen (mg/L)	Turbid	ity(NTU)	Suspended	Solids (mg/L)
Date	Condition	Condition**	Time	Бері	11 (111)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
2-Oct-24	Sunny	Calm	15:13	Middle	0.5	28.9 28.8	28.9	8.2 8.1	8.2	0.5 0.5	0.5	102.7 102.6	102.7	7.9 7.9	7.9	13.2 13.2	13.2	11 11	11.0
4-Oct-24	Sunny	Calm	16:59	Middle	0.2	29.4 29.4	29.4	8.0 8.0	8.0	0.1 0.1	0.1	94.3 94.3	94.3	7.2 7.2	7.2	8.5 8.6	8.6	5 4	4.5
7-Oct-24	Sunny	Calm	15:37	Middle	0.5	30.6 30.6	30.6	7.9 7.9	7.9	0.1 0.1	0.1	98.2 98.2	98.2	7.3 7.3	7.3	14.6 14.5	14.6	22 23	22.5
9-Oct-24	Fine	Calm	09:44	Middle	0.4	28.3 28.3	28.3	7.3 7.3	7.3	0.6 0.6	0.6	93.2 93.2	93.2	7.2 7.2	7.2	9.2 8.7	9.0	3	2.5
12-Oct-24	Sunny	Calm	11:31	Middle	0.2	28.4 28.4	28.4	7.9 7.9	7.9	0.6 0.6	0.6	94.7 94.2	94.5	7.3 7.3	7.3	6.6 6.6	6.6	21 20	20.5
14-Oct-24	Sunny	Calm	15:40	Middle	0.4	29.5 29.5	29.5	7.8 7.8	7.8	0.5 0.5	0.5	96.6 96.4	96.5	7.3 7.3	7.3	25.4 25.7	25.6	11 12	11.5
16-Oct-24	Sunny	Calm	13:28	Middle	0.5	30.8 30.8	30.8	8.1 8.1	8.1	0.8 0.8	0.8	96.5 96.4	96.5	7.2 7.2	7.2	18.9 18.6	18.8	20 20	20.0
18-Oct-24	Sunny	Calm	14:51	Middle	0.5	28.5 28.5	28.5	8.0 8.0	8.0	0.5 0.5	0.5	95.3 95.5	95.4	7.4 7.4	7.4	23.4 23.3	23.4	11 11	11.0
21-Oct-24	Sunny	Calm	11:26	Middle	0.4	29.0 29.0	29.0	8.7 8.7	8.7	1.0 1.0	1.0	97.4 97.6	97.5	7.5 7.5	7.5	9.3 9.4	9.4	23 23	23.0
23-Oct-24	Sunny	Calm	09:57	Middle	0.2	27.3 27.3	27.3	8.1 8.1	8.1	0.5 0.5	0.5	95.8 95.5	95.7	7.6 7.6	7.6	6.7 6.7	6.7	6 5	5.5
25-Oct-24	Sunny	Calm	10:08	Middle	0.5	25.8 25.8	25.8	7.6 7.6	7.6	2.1 2.1	2.1	89.6 90.6	90.1	7.2 7.3	7.3	7.6 7.6	7.6	23 23	23.0
28-Oct-24	Cloudy	Calm	14:46	Middle	0.4	24.1 24.1	24.1	8.0 8.0	8.0	3.3 3.3	3.3	91.9 91.8	91.9	7.6 7.6	7.6	15.4 15.4	15.4	26 25	25.5
30-Oct-24	Sunny	Calm	13:48	Middle	0.5	29.6 29.6	29.6	7.9 7.9	7.9	2.9 2.9	2.9	96.1 96.1	96.1	7.2 7.2	7.2	10.7 10.2	10.5	7 7	7.0

Water Quality Monitoring Results at IS2

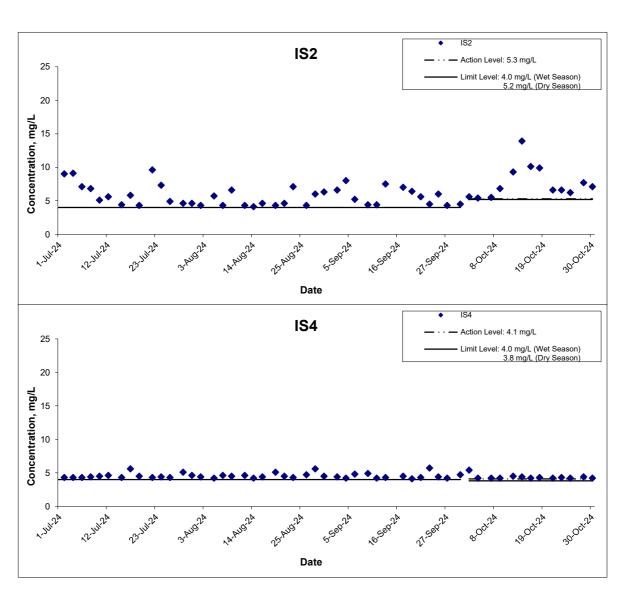
Date	Weather	Sea	Sampling	Den	th (m)	Tempera	ature (°C)	ŗ	Н	Salin	ity ppt	DO Satu	ration (%)	Dissolved O	xygen (mg/L)	Turbidi	ity(NTU)	Suspended	Solids (mg/L)
Date	Condition	Condition**	Time	БСР	ui (iii <i>)</i>	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
2-Oct-24	Sunny	Calm	14:31	Middle	0.1	29.9 29.9	29.9	7.5 7.5	7.5	0.4 0.4	0.4	73.4 74.0	73.7	5.5 5.6	5.6	27.6 26.5	27.1	9 9	9.0
4-Oct-24	Sunny	Calm	16:10	Middle	0.1	34.6 34.6	34.6	8.3 8.3	8.3	0.3 0.3	0.3	77.3 77.9	77.6	5.4 5.4	5.4	31.5 31.6	31.6	38 38	38.0
7-Oct-24	Sunny	Calm	16:19	Middle	0.1	29.9 29.9	29.9	8.2 8.2	8.2	0.4 0.4	0.4	71.9 72.5	72.2	5.4 5.5	5.5	21.0 20.8	20.9	17 17	17.0
9-Oct-24	Fine	Calm	08:31	Middle	0.1	26.6 26.6	26.6	7.2 7.2	7.2	0.6 0.6	0.6	84.6 84.5	84.6	6.8 6.8	6.8	13.8 13.7	13.8	3	2.5
12-Oct-24	Sunny	Calm	10:39	Middle	0.1	29.8 29.8	29.8	8.3 8.3	8.3	0.2 0.2	0.2	121.8 122.0	121.9	9.2 9.3	9.3	5.7 5.7	5.7	14 13	13.5
14-Oct-24	Sunny	Calm	14:53	Middle	0.1	31.1 31.1	31.1	9.1 9.1	9.1	2.6 2.6	2.6	190.5 190.5	190.5	13.9 13.9	13.9	24.3 24.2	24.3	16 16	16.0
16-Oct-24	Sunny	Calm	13:54	Middle	0.1	31.4 31.4	31.4	9.0 9.0	9.0	3.0 3.1	3.1	138.3 138.5	138.4	10.1 10.1	10.1	31.2 31.1	31.2	33 32	32.5
18-Oct-24	Sunny	Calm	15:58	Middle	0.1	30.9 30.9	30.9	8.7 8.7	8.7	2.1 2.2	2.2	134.8 134.8	134.8	9.9 9.9	9.9	21.0 21.4	21.2	16 16	16.0
21-Oct-24	Sunny	Calm	10:31	Middle	0.1	29.0 29.0	29.0	8.1 8.1	8.1	0.1 0.1	0.1	85.6 85.3	85.5	6.6 6.6	6.6	30.6 30.6	30.6	35 36	35.5
23-Oct-24	Sunny	Calm	09:25	Middle	0.1	27.7 27.8	27.8	8.0 7.9	8.0	3.6 3.6	3.6	85.9 85.7	85.8	6.6 6.6	6.6	21.6 21.6	21.6	17 17	17.0
25-Oct-24	Sunny	Calm	10:59	Middle	0.1	25.4 25.4	25.4	7.8 7.8	7.8	3.5 3.5	3.5	77.0 76.5	76.8	6.2 6.2	6.2	21.4 21.3	21.4	26 26	26.0
28-Oct-24	Cloudy	Calm	14:03	Middle	0.1	26.0 26.0	26.0	7.9 7.9	7.9	2.7 2.7	2.7	96.6 96.6	96.6	7.7 7.7	7.7	19.0 18.9	19.0	20 20	20.0
30-Oct-24	Sunny	Calm	14:35	Middle	0.1	27.4 27.4	27.4	8.7 8.7	8.7	5.0 5.0	5.0	92.0 91.9	92.0	7.1 7.1	7.1	18.9 18.9	18.9	26 25	25.5

Water Quality Monitoring Results at IS4

Date	Weather	Sea	Sampling	Dent	th (m)	Tempera	ature (°C)	ŗ	Н	Salin	ity ppt	DO Satu	ration (%)	Dissolved C	xygen (mg/L)	Turbid	ity(NTU)	Suspended	Solids (mg/L)
Date	Condition	Condition**	Time	Бері	(111)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
2-Oct-24	Sunny	Calm	14:55	Middle	0.2	26.9 26.9	26.9	8.1 8.0	8.1	0.1 0.1	0.1	67.3 66.9	67.1	5.4 5.3	5.4	9.9 9.9	9.9	6 6	6.0
4-Oct-24	Sunny	Calm	16:42	Middle	0.2	32.4 32.4	32.4	7.6 7.6	7.6	0.1 0.1	0.1	57.4 57.2	57.3	4.2 4.2	4.2	9.3 9.3	9.3	5 4	4.5
7-Oct-24	Sunny	Calm	15:49	Middle	0.2	27.2 27.2	27.2	7.5 7.5	7.5	0.1 0.1	0.1	52.6 52.6	52.6	4.2 4.2	4.2	10.9 11.0	11.0	11 11	11.0
9-Oct-24	Fine	Calm	09:26	Middle	0.1	24.7 24.7	24.7	7.8 7.7	7.8	0.02 0.02	0.02	49.9 50.1	50.0	4.2 4.2	4.2	6.1 5.2	5.7	9 8	8.5
12-Oct-24	Sunny	Calm	11:14	Middle	0.2	26.7 26.7	26.7	7.9 7.9	7.9	0.1 0.1	0.1	55.8 56.0	55.9	4.5 4.5	4.5	3.0 3.1	3.1	7 7	7.0
14-Oct-24	Sunny	Calm	15:14	Middle	0.1	26.9 26.9	26.9	8.6 8.6	8.6	0.1 0.1	0.1	55.2 55.5	55.4	4.4 4.4	4.4	10.5 10.4	10.5	7 7	7.0
16-Oct-24	Sunny	Calm	13:37	Middle	0.2	27.5 27.5	27.5	8.3 8.3	8.3	0.1 0.1	0.1	53.1 53.0	53.1	4.2 4.2	4.2	7.8 7.9	7.9	4 4	4.0
18-Oct-24	Sunny	Calm	14:59	Middle	0.1	27.0 27.0	27.0	7.9 7.9	7.9	0.1 0.1	0.1	53.4 53.2	53.3	4.3 4.2	4.3	8.7 8.6	8.7	16 15	15.5
21-Oct-24	Sunny	Calm	10:59	Middle	0.2	26.4 26.4	26.4	8.2 8.2	8.2	0.1 0.1	0.1	51.9 51.8	51.9	4.2 4.2	4.2	7.6 7.5	7.6	35 34	34.5
23-Oct-24	Sunny	Calm	09:40	Middle	0.2	25.8 25.8	25.8	7.6 7.5	7.6	0.1 0.1	0.1	52.6 52.7	52.7	4.3 4.3	4.3	10.5 10.5	10.5	10 10	10.0
25-Oct-24	Sunny	Calm	10:23	Middle	0.1	22.6 22.6	22.6	6.9 6.9	6.9	0.03 0.03	0.03	48.7 48.8	48.8	4.2 4.2	4.2	10.5 10.7	10.6	43 43	43.0
28-Oct-24	Cloudy	Calm	14:28	Middle	0.1	24.9 24.9	24.9	7.9 7.9	7.9	0.1 0.1	0.1	52.8 52.8	52.8	4.4 4.4	4.4	11.6 11.5	11.6	9	9.0
30-Oct-24	Sunny	Calm	14:01	Middle	0.1	25.3 25.3	25.3	8.5 8.5	8.5	0.1 0.1	0.1	51.4 51.4	51.4	4.2 4.2	4.2	17.2 17.5	17.4	10 10	10.0



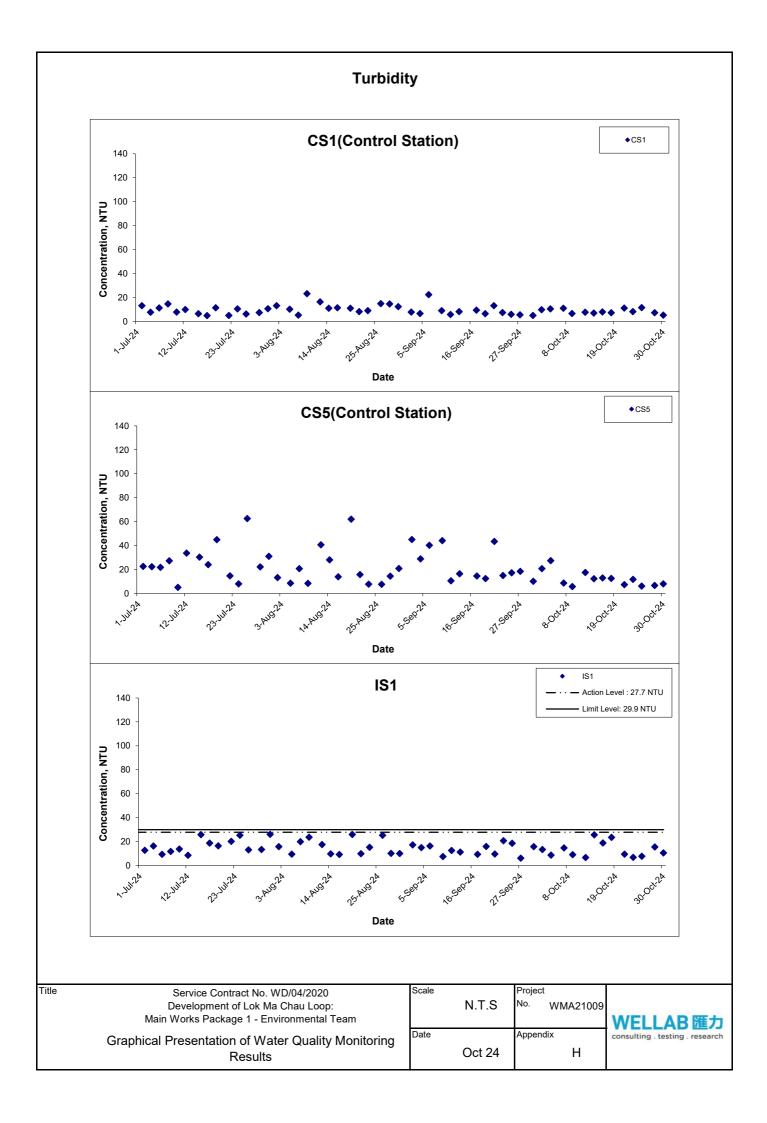
Dissolved Oxygen



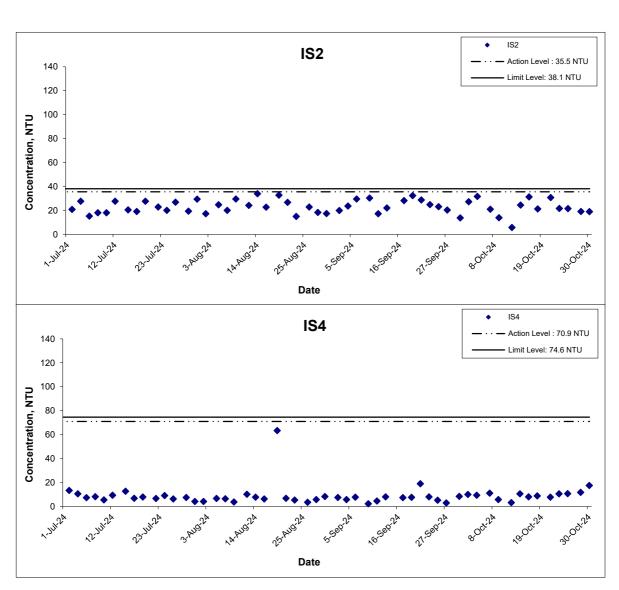
I Itie	Service Contract No. WD/04/2020	٥
	Development of Lok Ma Chau Loop:	
	Main Works Package 1 - Environmental Team	
	Graphical Presentation of Water Quality Monitoring	Ī
	Results	

Scale		Project
	N.T.S	No. WMA21009
Date		Appendix
	Oct 24	Н





Turbidity

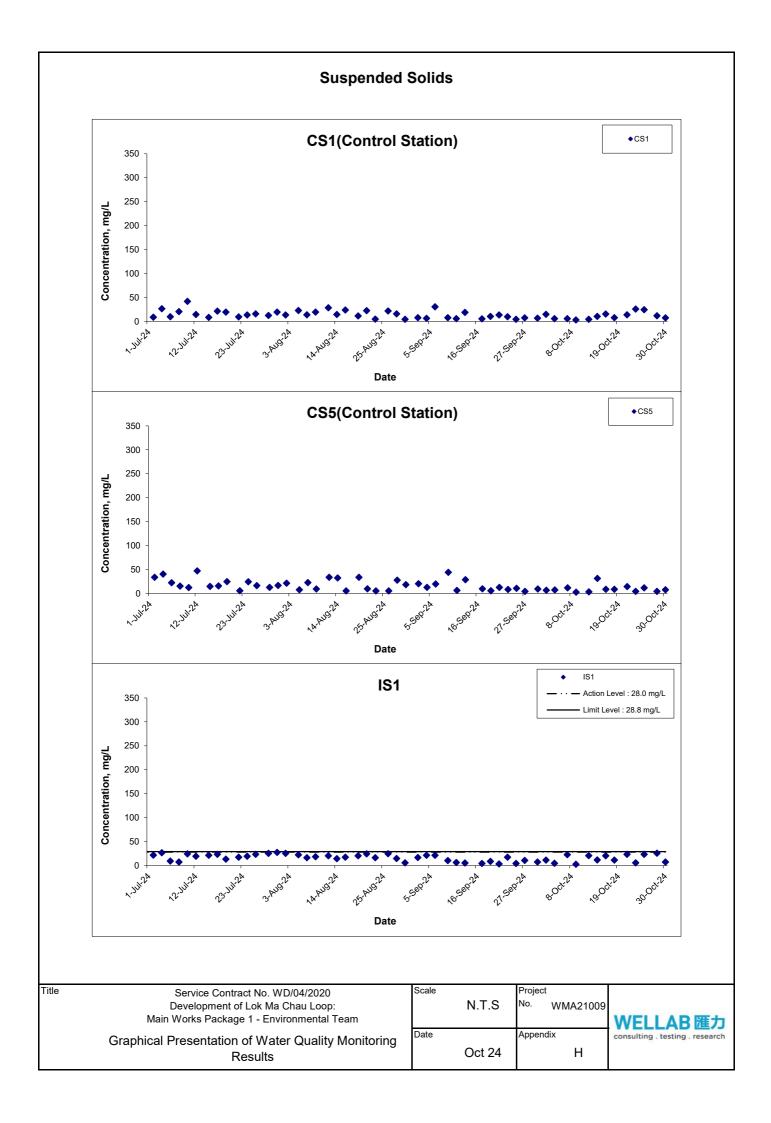


Service Contract No. WD/04/2020 Development of Lok Ma Chau Loop: Main Works Package 1 - Environmental Team Graphical Presentation of Water Quality Monitoring

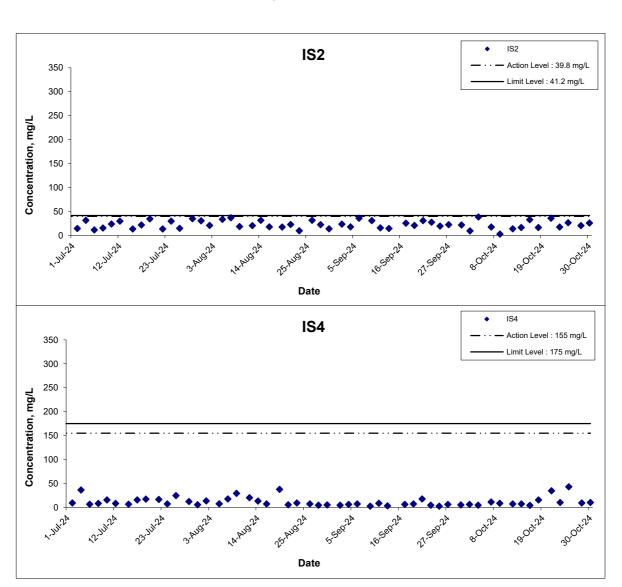
Results

Title





Suspended Solids



Service Contract No. WD/04/2020
Development of Lok Ma Chau Loop:
Main Works Package 1 - Environmental Team
Graphical Presentation of Water Quality Monitoring
Results

Title

Scale	N.T.S	Project No. WMA21009
Date		Appendix
	Oct 24	Н



APPENDIX I WEATHER CONDITION

APPENDIX I – GENERAL WEATHER CONDITIONS DURING THE MONITORING PERIOD

Date	Mean Air Temperature (°C)	Mean Relative Humidity (%)	Precipitation (mm)
1 October 2024	30.9	58	0.0
2 October 2024	27.4	54	0.0
3 October 2024	26.1	49	0.0
4 October 2024	27.0	50	0.0
5 October 2024	27.9	63	0.0
6 October 2024	29.2	70	0.0
7 October 2024	29.3	66	0.0
8 October 2024	28.2	62	0.0
9 October 2024	26.4	68	Trace
10 October 2024	27.0	68	Trace
11 October 2024	25.3	79	8.7
12 October 2024	27.0	67	0.0
13 October 2024	27.5	73	0.0
14 October 2024	28.0	75	0.0
15 October 2024	28.1	75	0.0
16 October 2024	28.2	74	Trace
17 October 2024	27.8	77	Trace

Date	Mean Air Temperature (°C)	Mean Relative Humidity (%)	Precipitation (mm)
18 October 2024	28.3	78	Trace
19 October 2024	29.2	74	0.0
20 October 2024	27.9	75	1.9
21 October 2024	27.8	75	Trace
22 October 2024	28.3	64	0.0
23 October 2024	25.7	57	00
24 October 2024	24.8	42	0.0
25 October 2024	26.0	45	0.0
26 October 2024	26.6	67	0.7
27 October 2024	27.3	73	Trace
28 October 2024	25.8	67	Trace
29 October 2024	25.3	69	Trace
30 October 2024	26.2	64	0.0
31 October 2024	27.1	52	0.0

^{*} The above information was extracted from the daily weather summary by Hong Kong Observatory.

Date	Time	Wind Speed m/s	Direction
1-Oct-2024	00:00	0.0	
1-Oct-2024	01:00	0.0	
1-Oct-2024	02:00	0.0	
1-Oct-2024	03:00	0.0	WSW
1-Oct-2024	04:00	0.0	
1-Oct-2024	05:00	0.0	
1-Oct-2024	06:00	0.0	
1-Oct-2024	07:00	0.0	WSW
1-Oct-2024	08:00	0.0	WNW
1-Oct-2024	09:00	0.0	W
1-Oct-2024	10:00	0.4	W
1-Oct-2024	11:00	0.4	SSW
1-Oct-2024	12:00	0.0	SW
1-Oct-2024	13:00	0.4	SSW
1-Oct-2024	14:00	0.9	SW
1-Oct-2024	15:00	0.4	SSW
1-Oct-2024	16:00	0.4	SSW
1-Oct-2024	17:00	0.4	SSW
1-Oct-2024	18:00	0.4	SSW
1-Oct-2024	19:00	0.4	SSW
1-Oct-2024	20:00	0.4	SW
1-Oct-2024	21:00	0.0	SW
1-Oct-2024	22:00	0.4	SSW
1-Oct-2024	23:00	0.4	SW
2-Oct-2024	00:00	0.0	SW
2-Oct-2024	01:00	0.0	SW
2-Oct-2024	02:00	0.0	SW
2-Oct-2024	03:00	0.0	SW
2-Oct-2024	04:00	0.0	SW
2-Oct-2024	05:00	0.0	SW
2-Oct-2024	06:00	0.4	SW
2-Oct-2024	07:00	0.0	SW
2-Oct-2024	08:00	0.0	SW
2-Oct-2024	09:00	0.4	SSW
2-Oct-2024	10:00	0.4	SSW
2-Oct-2024	11:00	0.4	SSW
2-Oct-2024	12:00	0.4	SSW
2-Oct-2024	13:00	0.4	SW
2-Oct-2024	14:00	0.4	SW
2-Oct-2024	15:00	0.4	W
2-Oct-2024	16:00	0.4	SW
2-Oct-2024	17:00	0.4	SW
2-Oct-2024	18:00	0.0	SSW
2-Oct-2024	19:00	0.4	SSW
2-Oct-2024	20:00	0.0	W
2-Oct-2024	21:00	0.0	WNW
2-Oct-2024	22:00	0.0	WNW
2-Oct-2024	23:00	0.0	SW
3-Oct-2024	00:00	0.4	SW
3-Oct-2024	01:00	0.0	W
3-Oct-2024	02:00	0.4	SSW
3-Oct-2024	03:00	0.4	SSW

Date	Time	Wind Speed m/s	Direction
3-Oct-2024	04:00	0.0	W
3-Oct-2024	05:00	0.4	SSW
3-Oct-2024	06:00	0.4	SSW
3-Oct-2024	07:00	0.0	SSW
3-Oct-2024	08:00	0.0	SW
3-Oct-2024	09:00	0.0	SW
3-Oct-2024	10:00	0.4	W
3-Oct-2024	11:00	0.9	SSW
3-Oct-2024	12:00	0.9	W
3-Oct-2024	13:00	0.9	W
3-Oct-2024	14:00	0.9	W
3-Oct-2024	15:00	0.4	W
3-Oct-2024	16:00	0.9	W
3-Oct-2024	17:00	0.0	WSW
3-Oct-2024	18:00	0.0	W
3-Oct-2024	19:00	0.0	W
3-Oct-2024	20:00	0.4	W
3-Oct-2024	21:00	0.4	W
3-Oct-2024	22:00	0.4	W
3-Oct-2024	23:00	0.9	W
4-Oct-2024	00:00	1.3	W
4-Oct-2024 4-Oct-2024	01:00	1.3	W
4-Oct-2024 4-Oct-2024	02:00	0.4	W
4-Oct-2024 4-Oct-2024	03:00	0.4	W
			W
4-Oct-2024	04:00	0.0	
4-Oct-2024	05:00	0.0	W W
4-Oct-2024	06:00	0.4	
4-Oct-2024	07:00	0.0	W
4-Oct-2024	08:00	0.4	W
4-Oct-2024	09:00	0.4	W
4-Oct-2024	10:00	0.0	W
4-Oct-2024	11:00	0.0	W
4-Oct-2024	12:00	0.0	W
4-Oct-2024	13:00	0.0	SSW
4-Oct-2024	14:00	0.0	N
4-Oct-2024	15:00	0.4	W
4-Oct-2024	16:00	0.0	SW
4-Oct-2024	17:00	0.0	WSW
4-Oct-2024	18:00	0.0	W
4-Oct-2024	19:00	0.0	W
4-Oct-2024	20:00	0.0	W
4-Oct-2024	21:00	0.0	W
4-Oct-2024	22:00	0.0	W
4-Oct-2024	23:00	0.0	W
5-Oct-2024	00:00	0.4	W
5-Oct-2024	01:00	0.4	W
5-Oct-2024	02:00	0.0	WNW
5-Oct-2024	03:00	0.0	WSW
5-Oct-2024	04:00	0.0	WNW
5-Oct-2024	05:00	0.4	W
5-Oct-2024	06:00	0.0	W
5-Oct-2024	07:00	0.0	WSW

Date	Time	Wind Speed m/s	Direction
5-Oct-2024	08:00	0.0	W
5-Oct-2024	09:00	0.0	N
5-Oct-2024	10:00	0.0	W
5-Oct-2024	11:00	0.4	W
5-Oct-2024	12:00	0.4	W
5-Oct-2024	13:00	0.4	W
5-Oct-2024	14:00	0.4	W
5-Oct-2024	15:00	0.4	W
5-Oct-2024	16:00	0.4	W
5-Oct-2024	17:00	0.0	W
5-Oct-2024	18:00	0.4	W
5-Oct-2024	19:00	0.0	W
5-Oct-2024	20:00	0.0	W
5-Oct-2024	21:00	0.4	W
5-Oct-2024	22:00	0.4	W
5-Oct-2024 5-Oct-2024	23:00	0.4	W
6-Oct-2024	00:00	0.0	WNW
6-Oct-2024	01:00	0.0	W W
6-Oct-2024	02:00	0.0	
6-Oct-2024	03:00	0.0	W
6-Oct-2024	04:00	0.0	W
6-Oct-2024	05:00	0.0	W
6-Oct-2024	06:00	0.0	W
6-Oct-2024	07:00	0.0	W
6-Oct-2024	08:00	0.4	W
6-Oct-2024	09:00	0.9	W
6-Oct-2024	10:00	0.4	W
6-Oct-2024	11:00	0.0	SSW
6-Oct-2024	12:00	0.0	SSW
6-Oct-2024	13:00	0.0	SSW
6-Oct-2024	14:00	0.0	W
6-Oct-2024	15:00	0.0	W
6-Oct-2024	16:00	0.0	W
6-Oct-2024	17:00	0.0	WNW
6-Oct-2024	18:00	0.0	E
6-Oct-2024	19:00	0.0	
6-Oct-2024	20:00	0.0	NW
6-Oct-2024	21:00	0.4	WNW
6-Oct-2024	22:00	0.0	NW
6-Oct-2024	23:00	0.0	WNW
7-Oct-2024	00:00	0.0	WNW
7-Oct-2024	01:00	0.4	W
7-Oct-2024	02:00	0.4	W
7-Oct-2024	03:00	0.0	W
7-Oct-2024	04:00	0.4	W
7-Oct-2024	05:00	0.0	W
7-Oct-2024	06:00	0.4	W
7-Oct-2024	07:00	0.4	W
7-Oct-2024	08:00	0.4	W
7-Oct-2024	09:00	0.9	W
7-Oct-2024	10:00	0.4	W
7-Oct-2024	11:00	0.4	W
1=00(-2024	11.00	U. T	V V

Date	Time	Wind Speed m/s	Direction
7-Oct-2024	12:00	1.3	W
7-Oct-2024	13:00	0.4	W
7-Oct-2024	14:00	0.0	W
7-Oct-2024	15:00	0.0	SSW
7-Oct-2024	16:00	0.4	W
7-Oct-2024	17:00	0.4	W
7-Oct-2024	18:00	0.0	W
7-Oct-2024	19:00	0.0	ENE
7-Oct-2024	20:00	0.0	NNW
7-Oct-2024	21:00	0.0	WNW
7-Oct-2024	22:00	0.0	WNW
7-Oct-2024	23:00	0.4	W
8-Oct-2024	00:00	0.4	W
8-Oct-2024	01:00	0.4	W
8-Oct-2024	02:00	0.4	W
8-Oct-2024	03:00	0.4	W
8-Oct-2024	04:00	0.0	W
8-Oct-2024	05:00	0.0	W
8-Oct-2024	06:00	0.0	W
8-Oct-2024	07:00	0.4	W
8-Oct-2024	08:00	0.9	W
8-Oct-2024	09:00	0.4	W
8-Oct-2024	10:00	0.9	W
8-Oct-2024	11:00	0.9	W
8-Oct-2024	12:00	0.4	W
8-Oct-2024	13:00		W
8-Oct-2024	14:00	0.4	W
	15:00		W
8-Oct-2024	16:00	0.4	W
8-Oct-2024		0.9	W
8-Oct-2024	17:00	0.9	VV
8-Oct-2024	18:00	0.4	W
8-Oct-2024	19:00	1.3	
8-Oct-2024	20:00	0.4	W
8-Oct-2024	21:00	0.0	W
8-Oct-2024	22:00	0.4	
8-Oct-2024	23:00	0.0	WNW
9-Oct-2024	00:00	0.0	W
9-Oct-2024	01:00	0.4	W
9-Oct-2024	02:00	0.4	W
9-Oct-2024	03:00	0.4	W
9-Oct-2024	04:00	0.4	W
9-Oct-2024	05:00	0.0	SW
9-Oct-2024	06:00	0.0	W
9-Oct-2024	07:00	0.9	W
9-Oct-2024	08:00	0.4	W
9-Oct-2024	09:00	0.9	W
9-Oct-2024	10:00	0.4	W
9-Oct-2024	11:00	0.9	W
9-Oct-2024	12:00	0.4	W
9-Oct-2024	13:00	0.4	W
9-Oct-2024	14:00	0.0	W
9-Oct-2024	15:00	0.4	WNW

Date	Time	Wind Speed m/s	Direction
9-Oct-2024	16:00	0.4	WNW
9-Oct-2024	17:00	0.4	W
9-Oct-2024	18:00	0.4	W
9-Oct-2024	19:00	0.0	W
9-Oct-2024	20:00	0.0	W
9-Oct-2024	21:00	0.0	W
9-Oct-2024	22:00	0.4	W
9-Oct-2024	23:00	0.4	W
10-Oct-2024	00:00	0.0	WNW
10-Oct-2024	01:00	0.4	W
10-Oct-2024	02:00	0.4	W
10-Oct-2024	03:00	0.0	W
10-Oct-2024	04:00	0.4	W
10-Oct-2024	05:00	0.0	W
10-Oct-2024	06:00	0.0	W
10-Oct-2024	07:00	0.0	W
			WNW
10-Oct-2024	08:00	0.0	
10-Oct-2024	09:00	0.4	W W
10-Oct-2024	10:00	0.0	
10-Oct-2024	11:00	0.4	W
10-Oct-2024	12:00	0.0	W
10-Oct-2024	13:00	0.0	SSW
10-Oct-2024	14:00	0.0	W
10-Oct-2024	15:00	0.0	W
10-Oct-2024	16:00	0.0	W
10-Oct-2024	17:00	0.9	W
10-Oct-2024	18:00	0.0	W
10-Oct-2024	19:00	0.0	W
10-Oct-2024	20:00	0.0	W
10-Oct-2024	21:00	0.0	
10-Oct-2024	22:00	0.0	
10-Oct-2024	23:00	0.0	
11-Oct-2024	00:00	0.0	W
11-Oct-2024	01:00	0.0	WNW
11-Oct-2024	02:00	0.4	W
11-Oct-2024	03:00	0.9	W
11-Oct-2024	04:00	0.4	NW
11-Oct-2024	05:00	0.0	WNW
11-Oct-2024	06:00	0.4	W
11-Oct-2024	07:00	0.9	W
11-Oct-2024	08:00	0.4	W
11-Oct-2024	09:00	0.0	WNW
11-Oct-2024	10:00	0.4	W
11-Oct-2024	11:00	0.4	W
11-Oct-2024	12:00	1.3	W
11-Oct-2024	13:00	0.0	W
11-Oct-2024	14:00	0.0	W
11-Oct-2024	15:00	0.4	WNW
11-Oct-2024	16:00	0.0	NNW
11-Oct-2024	17:00	0.4	NNW
11-Oct-2024 11-Oct-2024	18:00	0.4	W
11-Oct-2024	19:00	0.0	W

Date	Time	Wind Speed m/s	Direction
11-Oct-2024	20:00	0.0	W
11-Oct-2024	21:00	0.4	W
11-Oct-2024	22:00	0.4	W
11-Oct-2024	23:00	0.0	W
12-Oct-2024	00:00	0.0	W
12-Oct-2024	01:00	0.0	W
12-Oct-2024	02:00	0.0	W
12-Oct-2024	03:00	0.4	W
12-Oct-2024	04:00	0.0	W
12-Oct-2024	05:00	0.4	W
12-Oct-2024	06:00	0.9	W
12-Oct-2024	07:00	0.9	W
12-Oct-2024	08:00	0.9	W
12-Oct-2024	09:00	0.9	W
12-Oct-2024	10:00	0.9	W
12-Oct-2024	11:00	0.4	W
12-Oct-2024	12:00	0.4	W
12-Oct-2024	13:00	0.4	W
12-Oct-2024	14:00	0.4	WNW
12-Oct-2024	15:00	0.4	W
12-Oct-2024	16:00	0.4	W
12-Oct-2024	17:00	0.9	W
12-Oct-2024	18:00	0.9	W
12-Oct-2024	19:00	0.0	W
12-Oct-2024	20:00	0.0	WSW
12-Oct-2024	21:00	0.0	W
12-Oct-2024	22:00	0.9	W
12-Oct-2024	23:00	0.4	W
13-Oct-2024	00:00	0.4	W
13-Oct-2024	01:00	0.4	W
13-Oct-2024	02:00	0.4	W
13-Oct-2024	03:00	0.4	W
13-Oct-2024	03:00	0.0	W
13-Oct-2024	05:00	0.0	W
13-Oct-2024	06:00	0.9	W
13-Oct-2024	07:00	0.4	W
13-Oct-2024	08:00	0.4	W
13-Oct-2024	09:00	0.4	W
13-Oct-2024	10:00	0.4	W
13-Oct-2024	11:00	1.3	W
13-Oct-2024	12:00	0.9	W
		0.9	W
13-Oct-2024	13:00 14:00	0.4	W
13-Oct-2024	15:00	0.9	W
13-Oct-2024	16:00	0.4	W
13-Oct-2024 13-Oct-2024	17:00	0.9	W
			W
13-Oct-2024	18:00	0.9	vv W
13-Oct-2024	19:00	0.0	
13-Oct-2024	20:00	0.0	W
13-Oct-2024	21:00	0.0	W
13-Oct-2024	22:00	0.0	W
13-Oct-2024	23:00	0.9	W

Date	Time	Wind Speed m/s	Direction
14-Oct-2024	00:00	0.4	W
14-Oct-2024	01:00	0.9	W
14-Oct-2024	02:00	1.3	W
14-Oct-2024	03:00	2.2	W
14-Oct-2024	04:00	0.0	WNW
14-Oct-2024	05:00	0.4	W
14-Oct-2024	06:00	0.4	W
14-Oct-2024	07:00	0.4	W
14-Oct-2024	08:00	0.4	W
14-Oct-2024	09:00	1.3	W
14-Oct-2024	10:00	1.8	W
14-Oct-2024	11:00	1.3	W
14-Oct-2024	12:00	0.9	W
14-Oct-2024	13:00	0.9	W
14-Oct-2024	14:00	0.4	W
14-Oct-2024	15:00	0.9	W
14-Oct-2024	16:00	0.9	W
14-Oct-2024	17:00	0.9	W
14-Oct-2024	18:00	0.0	W
14-Oct-2024	19:00	0.0	W
14-Oct-2024	20:00	0.0	W
14-Oct-2024	21:00	0.0	W
14-Oct-2024	22:00	0.0	W
14-Oct-2024	23:00	0.4	W
15-Oct-2024	00:00	0.4	W
15-Oct-2024	01:00	0.0	W
15-Oct-2024 15-Oct-2024	02:00	0.9	W
15-Oct-2024	03:00	0.9	W
15-Oct-2024	04:00	0.9	W
15-Oct-2024	05:00	0.9	W
15-Oct-2024	06:00	0.4	W
15-Oct-2024	07:00	0.0	
15-Oct-2024	08:00		W
15-Oct-2024	09:00	0.0	W
15-Oct-2024 15-Oct-2024	10:00	0.4	W
15-Oct-2024	11:00	1.3	W
15-Oct-2024 15-Oct-2024	12:00	1.3	W
	13:00	1.3	W
15-Oct-2024			
15-Oct-2024	14:00	0.9	W W
15-Oct-2024	15:00	0.9	
15-Oct-2024	16:00	1.3	W
15-Oct-2024	17:00	0.9	W
15-Oct-2024	18:00	0.9	
15-Oct-2024	19:00	0.4	W
15-Oct-2024	20:00	0.0	W
15-Oct-2024	21:00	0.9	W
15-Oct-2024	22:00	0.4	W
15-Oct-2024	23:00	0.4	W
16-Oct-2024	00:00	0.4	W
16-Oct-2024	01:00	0.4	W
16-Oct-2024	02:00	1.8	W
16-Oct-2024	03:00	1.3	W

Date	Time	Wind Speed m/s	Direction
16-Oct-2024	04:00	1.3	W
16-Oct-2024	05:00	0.9	W
16-Oct-2024	06:00	1.3	W
16-Oct-2024	07:00	0.4	W
16-Oct-2024	08:00	0.0	W
16-Oct-2024	09:00	1.3	W
16-Oct-2024	10:00	1.8	W
16-Oct-2024	11:00	1.8	W
16-Oct-2024	12:00	1.8	W
16-Oct-2024	13:00	1.3	W
16-Oct-2024	14:00	1.3	W
16-Oct-2024	15:00	0.9	W
16-Oct-2024	16:00	0.4	NW
16-Oct-2024	17:00	0.4	W
16-Oct-2024	18:00	0.4	W
16-Oct-2024	19:00	1.8	W
16-Oct-2024	20:00	0.9	W
16-Oct-2024	21:00	0.4	W
16-Oct-2024	22:00	0.4	W
16-Oct-2024	23:00	0.0	W
17-Oct-2024	00:00	0.4	W
17-Oct-2024	01:00	1.8	W
17-Oct-2024	02:00	1.8	W
17-Oct-2024 17-Oct-2024	03:00	2.2	W
			W
17-Oct-2024	04:00	0.9	
17-Oct-2024	05:00	0.4	W W
17-Oct-2024	06:00	0.4	
17-Oct-2024	07:00	0.9	W
17-Oct-2024	08:00	0.9	W
17-Oct-2024	09:00	2.2	W
17-Oct-2024	10:00	1.8	W
17-Oct-2024	11:00	1.8	W
17-Oct-2024	12:00	1.3	W
17-Oct-2024	13:00	0.4	W
17-Oct-2024	14:00	0.4	NNW
17-Oct-2024	15:00	0.4	NNW
17-Oct-2024	16:00	0.4	W
17-Oct-2024	17:00	0.9	W
17-Oct-2024	18:00	0.0	W
17-Oct-2024	19:00	0.0	W
17-Oct-2024	20:00	0.4	W
17-Oct-2024	21:00	0.0	W
17-Oct-2024	22:00	0.0	W
17-Oct-2024	23:00	0.4	W
18-Oct-2024	00:00	0.9	W
18-Oct-2024	01:00	1.3	W
18-Oct-2024	02:00	1.8	W
18-Oct-2024	03:00	0.9	W
18-Oct-2024	04:00	0.9	W
18-Oct-2024	05:00	0.9	W
18-Oct-2024	06:00	0.9	W
18-Oct-2024	07:00	0.9	W

Date	Time	Wind Speed m/s	Direction
18-Oct-2024	08:00	0.9	W
18-Oct-2024	09:00	1.3	W
18-Oct-2024	10:00	1.3	W
18-Oct-2024	11:00	0.9	W
18-Oct-2024	12:00	0.9	WNW
18-Oct-2024	13:00	0.4	W
18-Oct-2024	14:00	0.4	W
18-Oct-2024	15:00	0.4	W
18-Oct-2024	16:00	0.4	W
18-Oct-2024	17:00	0.4	W
18-Oct-2024	18:00	0.4	W
18-Oct-2024	19:00	0.0	W
18-Oct-2024	20:00	0.0	
18-Oct-2024	21:00	0.0	
18-Oct-2024	22:00	0.0	
18-Oct-2024	23:00	0.0	
19-Oct-2024	00:00	0.0	
19-Oct-2024 19-Oct-2024	01:00	0.0	
19-Oct-2024 19-Oct-2024	02:00	0.0	
19-Oct-2024 19-Oct-2024		0.0	
	03:00		
19-Oct-2024	04:00	0.0	
19-Oct-2024	05:00	0.0	
19-Oct-2024	06:00	0.0	
19-Oct-2024	07:00	0.0	
19-Oct-2024	08:00	0.0	
19-Oct-2024	09:00	0.0	
19-Oct-2024	10:00	0.0	
19-Oct-2024	11:00	0.0	W
19-Oct-2024	12:00	0.0	W
19-Oct-2024	13:00	0.0	W
19-Oct-2024	14:00	0.4	W
19-Oct-2024	15:00	0.4	W
19-Oct-2024	16:00	0.4	W
19-Oct-2024	17:00	1.3	W
19-Oct-2024	18:00	0.0	W
19-Oct-2024	19:00	0.0	
19-Oct-2024	20:00	0.0	W
19-Oct-2024	21:00	0.0	W
19-Oct-2024	22:00	0.0	W
19-Oct-2024	23:00	0.0	W
20-Oct-2024	00:00	0.4	W
20-Oct-2024	01:00	0.4	W
20-Oct-2024	02:00	0.9	W
20-Oct-2024	03:00	0.9	W
20-Oct-2024	04:00	0.9	W
20-Oct-2024	05:00	0.4	W
20-Oct-2024	06:00	1.8	W
20-Oct-2024	07:00	2.2	W
20-Oct-2024	08:00	1.8	W
20-Oct-2024	09:00	1.8	W
20-Oct-2024	10:00	1.8	W
20-Oct-2024	11:00	1.8	W

Date	Time	Wind Speed m/s	Direction
20-Oct-2024	12:00	1.3	W
20-Oct-2024	13:00	0.9	W
20-Oct-2024	14:00	0.9	W
20-Oct-2024	15:00	0.9	W
20-Oct-2024	16:00	1.3	W
20-Oct-2024	17:00	0.9	W
20-Oct-2024	18:00	0.9	W
20-Oct-2024	19:00	0.9	W
20-Oct-2024	20:00	1.3	W
20-Oct-2024	21:00	0.4	W
20-Oct-2024	22:00	0.0	W
20-Oct-2024	23:00	0.4	W
21-Oct-2024	00:00	0.0	W
21-Oct-2024 21-Oct-2024	01:00	0.0	W
	02:00	0.0	W
21-Oct-2024 21-Oct-2024	02:00	0.0	W
			W
21-Oct-2024	04:00	0.0	W
21-Oct-2024	05:00	0.0	
21-Oct-2024	06:00	0.4	W
21-Oct-2024	07:00	0.4	W
21-Oct-2024	08:00	0.9	W
21-Oct-2024	09:00	0.9	W
21-Oct-2024	10:00	0.0	W
21-Oct-2024	11:00	0.0	W
21-Oct-2024	12:00	0.0	W
21-Oct-2024	13:00	0.4	W
21-Oct-2024	14:00	0.0	W
21-Oct-2024	15:00	0.0	W
21-Oct-2024	16:00	0.0	W
21-Oct-2024	17:00	0.4	W
21-Oct-2024	18:00	0.4	W
21-Oct-2024	19:00	1.3	W
21-Oct-2024	20:00	0.4	W
21-Oct-2024	21:00	0.0	W
21-Oct-2024	22:00	0.0	W
21-Oct-2024	23:00	0.0	W
22-Oct-2024	00:00	0.0	W
22-Oct-2024	01:00	0.0	W
22-Oct-2024	02:00	0.0	W
22-Oct-2024	03:00	0.0	WNW
22-Oct-2024	04:00	0.0	WNW
22-Oct-2024	05:00	0.0	W
22-Oct-2024	06:00	0.0	
22-Oct-2024	07:00	0.4	W
22-Oct-2024	08:00	0.4	W
22-Oct-2024	09:00	0.4	W
22-Oct-2024	10:00	0.4	W
22-Oct-2024	11:00	0.4	W
22-Oct-2024	12:00	0.0	SSW
22-Oct-2024	13:00	0.0	W
22-Oct-2024	14:00	0.4	W
22 000-2027	17.00	U. T	v V

Date	Time	Wind Speed m/s	Direction
22-Oct-2024	16:00	0.0	SW
22-Oct-2024	17:00	0.4	W
22-Oct-2024	18:00	0.0	W
22-Oct-2024	19:00	0.4	W
22-Oct-2024	20:00	1.3	W
22-Oct-2024	21:00	0.9	W
22-Oct-2024	22:00	0.9	W
22-Oct-2024	23:00	0.4	W
23-Oct-2024	00:00	0.4	W
23-Oct-2024	01:00	0.4	SSW
23-Oct-2024	02:00	0.9	SSW
23-Oct-2024	03:00	0.4	SSW
23-Oct-2024	04:00	0.4	SSW
23-Oct-2024	05:00	0.4	SSW
23-Oct-2024 23-Oct-2024	06:00	0.0	SSW
23-Oct-2024 23-Oct-2024	07:00	0.0	SSW
23-Oct-2024 23-Oct-2024	08:00	0.4	SSW
23-Oct-2024 23-Oct-2024	09:00	0.4	W
	10:00	0.4	W
23-Oct-2024			W
23-Oct-2024	11:00	0.9	
23-Oct-2024	12:00	0.4	SSW
23-Oct-2024	13:00	0.9	W
23-Oct-2024	14:00	0.4	W
23-Oct-2024	15:00	0.4	W
23-Oct-2024	16:00	0.4	SSW
23-Oct-2024	17:00	0.0	SSW
23-Oct-2024	18:00	0.0	SSW
23-Oct-2024	19:00	0.0	SW
23-Oct-2024	20:00	0.4	W
23-Oct-2024	21:00	0.4	W
23-Oct-2024	22:00	0.4	W
23-Oct-2024	23:00	0.4	W
24-Oct-2024	00:00	0.4	W
24-Oct-2024	01:00	0.4	W
24-Oct-2024	02:00	0.0	W
24-Oct-2024	03:00	0.0	SW
24-Oct-2024	04:00	0.0	SSW
24-Oct-2024	05:00	0.4	W
24-Oct-2024	06:00	0.4	W
24-Oct-2024	07:00	0.0	WSW
24-Oct-2024	08:00	0.0	SW
24-Oct-2024	09:00	0.0	SSW
24-Oct-2024	10:00	0.0	SSW
24-Oct-2024	11:00	0.0	SSW
24-Oct-2024	12:00	0.0	SW
24-Oct-2024	13:00	0.0	SW
24-Oct-2024	14:00	0.0	SW
24-Oct-2024	15:00	0.0	SW
24-Oct-2024	16:00	0.0	SW
24-Oct-2024	17:00	0.0	SW
24-Oct-2024	18:00	0.0	SW
24-Oct-2024	19:00	0.0	SW

Date	Time	Wind Speed m/s	Direction
24-Oct-2024	20:00	0.0	W
24-Oct-2024	21:00	0.0	
24-Oct-2024	22:00	0.0	SW
24-Oct-2024	23:00	0.0	W
25-Oct-2024	00:00	0.0	SW
25-Oct-2024	01:00	0.0	SW
25-Oct-2024	02:00	0.0	SSW
25-Oct-2024	03:00	0.0	SSW
25-Oct-2024	04:00	0.4	SSW
25-Oct-2024	05:00	0.4	SW
25-Oct-2024	06:00	0.4	SW
25-Oct-2024	07:00	0.0	SW
25-Oct-2024	08:00	0.0	SSW
25-Oct-2024	09:00	0.4	W
25-Oct-2024	10:00	0.4	W
25-Oct-2024 25-Oct-2024	11:00	0.4	W
25-Oct-2024 25-Oct-2024	12:00	0.4	W
25-Oct-2024 25-Oct-2024	13:00	0.4	W
25-Oct-2024 25-Oct-2024	14:00	0.4	SSW
	15:00		SSW
25-Oct-2024		0.4	
25-Oct-2024	16:00	0.4	W
25-Oct-2024	17:00	0.4	W
25-Oct-2024	18:00	0.4	W
25-Oct-2024	19:00	0.4	W
25-Oct-2024	20:00	0.4	W
25-Oct-2024	21:00	0.4	W
25-Oct-2024	22:00	0.4	W
25-Oct-2024	23:00	0.4	W
26-Oct-2024	00:00	0.4	W
26-Oct-2024	01:00	0.4	W
26-Oct-2024	02:00	0.9	W
26-Oct-2024	03:00	0.9	W
26-Oct-2024	04:00	0.4	W
26-Oct-2024	05:00	0.4	W
26-Oct-2024	06:00	0.9	W
26-Oct-2024	07:00	0.9	W
26-Oct-2024	08:00	0.9	W
26-Oct-2024	09:00	0.9	W
26-Oct-2024	10:00	0.4	W
26-Oct-2024	11:00	0.4	W
26-Oct-2024	12:00	0.0	W
26-Oct-2024	13:00	0.4	W
26-Oct-2024	14:00	0.4	W
26-Oct-2024	15:00	0.0	W
26-Oct-2024	16:00	0.4	W
26-Oct-2024	17:00	0.4	W
26-Oct-2024	18:00	0.4	W
26-Oct-2024	19:00	0.4	W
26-Oct-2024	20:00	0.4	W
26-Oct-2024	21:00	0.4	W
26-Oct-2024	22:00	0.4	W
26-Oct-2024	23:00	0.0	W

Date	Time	Wind Speed m/s	Direction
27-Oct-2024	00:00	0.0	W
27-Oct-2024	01:00	0.0	W
27-Oct-2024	02:00	0.0	W
27-Oct-2024	03:00	0.9	W
27-Oct-2024	04:00	0.4	W
27-Oct-2024	05:00	0.0	W
27-Oct-2024	06:00	0.4	W
27-Oct-2024	07:00	0.9	W
27-Oct-2024	08:00	0.9	W
27-Oct-2024	09:00	0.4	W
27-Oct-2024	10:00	0.0	W
27-Oct-2024	11:00	0.0	W
27-Oct-2024	12:00	0.0	WSW
27-Oct-2024	13:00	0.0	W
27-Oct-2024 27-Oct-2024	14:00	0.0	W
27-Oct-2024 27-Oct-2024	15:00	0.0	W
27-Oct-2024 27-Oct-2024	16:00	0.0	W
27-Oct-2024 27-Oct-2024	17:00	0.0	W
27-Oct-2024 27-Oct-2024	18:00	0.0	W
	19:00		W
27-Oct-2024		0.0	W
27-Oct-2024	20:00		
27-Oct-2024	21:00	0.4	W
27-Oct-2024	22:00	0.4	W
27-Oct-2024	23:00	0.0	W
28-Oct-2024	00:00	0.4	W
28-Oct-2024	01:00	0.4	W
28-Oct-2024	02:00	0.0	SSW
28-Oct-2024	03:00	0.4	W
28-Oct-2024	04:00	0.0	SSW
28-Oct-2024	05:00	0.4	W
28-Oct-2024	06:00	0.4	W
28-Oct-2024	07:00	0.4	W
28-Oct-2024	08:00	0.4	W
28-Oct-2024	09:00	0.4	W
28-Oct-2024	10:00	0.4	W
28-Oct-2024	11:00	0.4	W
28-Oct-2024	12:00	0.9	W
28-Oct-2024	13:00	0.4	W
28-Oct-2024	14:00	0.0	W
28-Oct-2024	15:00	0.0	W
28-Oct-2024	16:00	0.0	W
28-Oct-2024	17:00	0.0	W
28-Oct-2024	18:00	0.0	WNW
28-Oct-2024	19:00	0.4	W
28-Oct-2024	20:00	0.9	W
28-Oct-2024	21:00	0.4	W
28-Oct-2024	22:00	0.0	W
28-Oct-2024	23:00	0.4	W
29-Oct-2024	00:00	0.4	W
29-Oct-2024	01:00	0.9	W
29-Oct-2024	02:00	0.4	W
29-Oct-2024	03:00	0.0	W

Date	Time	Wind Speed m/s	Direction
29-Oct-2024	04:00	0.4	W
29-Oct-2024	05:00	0.9	W
29-Oct-2024	06:00	0.4	W
29-Oct-2024	07:00	0.4	W
29-Oct-2024	08:00	0.4	W
29-Oct-2024	09:00	0.0	W
29-Oct-2024	10:00	0.0	W
29-Oct-2024	11:00	0.0	W
29-Oct-2024	12:00	0.0	W
29-Oct-2024	13:00	0.4	W
29-Oct-2024	14:00	0.4	W
29-Oct-2024	15:00	0.4	W
29-Oct-2024	16:00	0.4	W
29-Oct-2024	17:00	0.0	W
	18:00	0.0	W
29-Oct-2024 29-Oct-2024	19:00	0.0	WNW
			W
29-Oct-2024	20:00 21:00	0.0	W W
29-Oct-2024			
29-Oct-2024	22:00	0.0	W
29-Oct-2024	23:00	0.0	W
30-Oct-2024	00:00	0.0	W
30-Oct-2024	01:00	0.4	W
30-Oct-2024	02:00	0.4	W
30-Oct-2024	03:00	0.4	W
30-Oct-2024	04:00	0.0	W
30-Oct-2024	05:00	0.4	W
30-Oct-2024	06:00	0.4	W
30-Oct-2024	07:00	0.4	W
30-Oct-2024	08:00	0.9	W
30-Oct-2024	09:00	0.4	W
30-Oct-2024	10:00	0.4	W
30-Oct-2024	11:00	0.0	SSW
30-Oct-2024	12:00	0.4	W
30-Oct-2024	13:00	0.0	W
30-Oct-2024	14:00	0.0	SSW
30-Oct-2024	15:00	0.0	W
30-Oct-2024	16:00	0.0	SW
30-Oct-2024	17:00	0.0	W
30-Oct-2024	18:00	0.0	W
30-Oct-2024	19:00	0.0	SW
30-Oct-2024	20:00	0.0	
30-Oct-2024	21:00	0.0	
30-Oct-2024	22:00	0.0	SW
30-Oct-2024	23:00	0.0	W
31-Oct-2024	00:00	0.0	WSW
31-Oct-2024	01:00	0.0	WSW
31-Oct-2024	02:00	0.0	WSW
31-Oct-2024	03:00	0.0	
31-Oct-2024	04:00	0.0	WSW
31-Oct-2024	05:00	0.0	SW
31-Oct-2024	06:00	0.0	SSW
			W
31-Oct-2024	07:00	0.0	۷V

Date	Time	Wind Speed m/s	Direction
31-Oct-2024	08:00	0.0	SW
31-Oct-2024	09:00	0.0	W
31-Oct-2024	10:00	0.0	SSW
31-Oct-2024	11:00	0.0	SSW
31-Oct-2024	12:00	0.0	SSW
31-Oct-2024	13:00	0.4	SSW
31-Oct-2024	14:00	0.0	SW
31-Oct-2024	15:00	0.0	SW
31-Oct-2024	16:00	0.0	NE
31-Oct-2024	17:00	0.0	SSW
31-Oct-2024	18:00	0.0	SW
31-Oct-2024	19:00	0.0	
31-Oct-2024	20:00	0.0	SSW
31-Oct-2024	21:00	0.0	SW
31-Oct-2024	22:00	0.0	SW
31-Oct-2024	23:00	0.0	SSW

APPENDIX J EVENT ACTION PLANS

Appendix J Event / Action Plan for Air Quality

	ACTION					
EVENT	ET	IEC	ER	CONTRACTOR		
ACTION LEVEL						
Exceedance for one sample	I. Identify source, investigate the causes of exceedance and propose remedial measures; Inform IEC, ER and Contractor; Repeat measurement to confirm finding; and 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.	Identify source, investigate the causes of exceedance and propose remedial measures Rectify any unacceptable practice and implement remedial measures; and Amend working methods agreed with ER if appropriate.		
2. Exceedance for two or more consecutive samples	 Identify source, investigate the causes of exceedance and propose remedial measures; Inform IEC, ER and Contractor; Advise the ER and Contractor on the effectiveness of the proposed remedial measures; Repeat measurements to confirm findings; Increase monitoring frequency to daily; Discuss with IEC, ER and Contractor on remedial actions required; If exceedance continues, arrange meeting with IEC and ER; and If exceedance stops, cease additional monitoring. 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ET and ER on the effectiveness of the proposed remedial measures; and Supervise Implementation of remedial measures. 	Confirm receipt of notification of failure in writing; Notify Contractor; and Supervise and ensure remedial measures properly implemented.	 Identify source, investigate the causes of exceedance and propose remedial measures Submit proposals for remedial actions to ER with a copy to ET and IEC within 3 working days of notification; Implement the agreed proposals; and Amend proposal if appropriate. 		

	ACTION					
EVENT	ET	IEC	ER	CONTRACTOR		
LIMIT LEVEL						
1.Exceedance for one sample	 Identify source, investigate the causes of exceedance and propose remedial measures; Inform ER, Contractor, IEC and EPD; Repeat measurement to confirm finding; Increase monitoring frequency to daily; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results. 	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET, ER and Contractor on possible remedial measures; 4. Advise the ER and ET on the effectiveness of the proposed remedial measures; 5. Supervise implementation of remedial measures.	Confirm receipt of notification of failure in writing; Notify Contractor; and Supervise and ensure remedial measures properly implemented.	 Identify source, investigate the causes of exceedance and propose remedial measures; Take immediate action to avoid further exceedance; Submit proposals for remedial actions to ER with a copy to ET and IEC within 3 working days of notification; Implement the agreed proposals; and Amend proposal if appropriate. 		
2.Exceedance for two or more consecutive samples	 Notify IEC, ER, Contractor and EPD; Identify source; Repeat measurement to confirm findings; Increase monitoring frequency to daily; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Arrange meeting with IEC, Contractor and ER to discuss the remedial actions to be taken; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; 	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; and Supervise the implementation 	 Confirm receipt of notification of failure in writing; Notify Contractor; In consultation with the ET and IEC, agree with the Contractor on the remedial measures to be implemented; Supervise and ensure remedial measures properly implemented; and If exceedance continues, consider what portion of the work is responsible and instruct the 	 Identify source, investigate the causes of exceedance and propose remedial measures; Take immediate action to avoid further exceedance; Submit proposals for remedial actions to ER with a copy to ET and IEC within 3 working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; 		

EVENT	ACTION				
EVENT	ET	IEC	ER	CONTRACTOR	
	8. If exceedance stops, cease additional monitoring.	of remedial measures.	Contractor to stop that portion of work until the exceedance is abated.	6. Stop the relevant portion of works as determined by the ER until the exceedance is abated.	

Event / Action Plan for Construction Noise

EVENT	ACTION					
	ET	IEC	ER	CONTRACTOR		
Action Level	 Notify IEC, ER and Contractor; Carry out investigation; Report the results of investigation to the IEC, ER and Contractor; Discuss with the Contractor and formulate remedial measures; Increase monitoring frequency to check mitigation effectiveness. 	 Review the analysed results submitted by the ET; Review the proposed remedial measures by the Contractor and advise the ER accordingly; Supervise the implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; Require Contractor to propose remedial measures for the analysed noise problem; Ensure remedial measures are properly implemented 	 Submit noise mitigation proposals to IEC and ER; Implement noise mitigation proposals. 		
Limit Level	 Identify source; Inform IEC, ER, EPD and Contractor; Repeat measurements to confirm findings; Increase monitoring frequency; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Inform IEC, ER and EPD the causes and actions taken for the exceedances; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; If exceedance stops, cease additional monitoring. 	 Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; Supervise the implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; Require Contractor to propose remedial measures for the analysed noise problem; Ensure remedial measures properly implemented; If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Resubmit proposals if problem still not under control; Stop the relevant portion of works as determined by the ER until the exceedance is abated. 		

Event and Action Plan for Water Quality

	Action				
Event	ET	IEC	ER	Contractor	
Action level being exceeded by one sampling day Action level being	Inform IEC, Contractor and ER; Check monitoring data, all plant, equipment and Contractor's working methods; and Discuss remedial measures with IEC and Contractor and ER. Repeat in-situ measurement on next	Discuss with ET, ER and Contractor on the implemented mitigation measures; Review proposals on remedial measures submitted by Contractor and advise the ER accordingly; and Review and advise the ET and ER on the effectiveness of the implemented mitigation measures. Discuss with ET, Contractor and	Discuss with IEC, ET and Contractor on the implemented mitigation measures; Make agreement on the remedial measures to be implemented; Supervise the implementation of agreed remedial measures. Discuss with ET, IEC and Contractor	 Identify source(s) of impact; Inform the ER and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ER, ET and IEC and purpose remedial measures to IEC and ER; and Implement the agreed mitigation measures. Identify source(s) of impact; 	
exceeded by two or more consecutive sampling days	day of exceedance to confirm findings; 2. Inform IEC, contractor and ER; 3. Check monitoring data, all plant, equipment and Contractor's working methods; 4. Discuss remedial measures with IEC, contractor and ER 5. Ensure remedial measures are implemented	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.	·	 Inform the ER and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment and consider changes of working methods; Discuss with ET, IEC and ER and submit proposal of remedial measures to ER and IEC within 3 working days of notification; and Implement the agreed mitigation measures. 	
Limit level being exceeded by one sampling day	Repeat measurement on next day of exceedance to confirm findings; Inform IEC, contractor and ER;	Discuss with ET, Contractor and ER on the implemented mitigation measures;	Discuss with ET, IEC and Contractor on the implemented remedial measures;	I. Identify source(s) of impact; Inform the ER and confirm notification of the non-compliance in writing;	

	Action				
Event	ET	IEC	ER	Contractor	
	3. Rectify unacceptable practice;	2. Review the proposed remedial	2. Request Contractor to critically review	3. Rectify unacceptable practice;	
	 4. Check monitoring data, all plant, equipment and Contractor's working methods; 5. Consider changes of working methods; 6. Discuss mitigation measures with IEC, ER and Contractor; and 7. Ensure the agreed remedial measures 	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.	the working methods; 3. Make agreement on the remedial measures to be implemented; and 4. Discuss with ET, IEC and Contractor on the effectiveness of the implemented remedial measures.	 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. 	
Limit level being exceeded by two or more consecutive sampling days	are implemented 1. Inform IEC, contractor and ER; 2. Check monitoring data, all plant, equipment and Contractor's working methods; 3. Discuss mitigation measures with IEC, ER and Contractor; and 4. Ensure mitigation measures are implemented; and 5. Increase the monitoring frequency to daily until no exceedance of Limit Level for two consecutive days	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.	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	 Identify source(s) of impact; Inform the ER and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment and consider changes of working methods; Discuss with ET, IEC and ER and submit proposal of additional mitigation measures to ER and IEC within 3 working days of notification; and Implement the agreed remedial measures. As directed by the ER, to slow down or stop all or part of the dredging activities until no exceedance of Limit level. 	

Event / Action Plan for Landscape and Visual during construction phase

			Action	
Event	ET	IEC	ER	Contractor
Non-conformity on one occasion	Inform the Contractor, IEC and ER Discuss remedial actions with IEC, ER and Contractor Monitor remedial actions until rectification has been completed	Check inspection report Check Contractor's working method Discuss with ET, ER and Contractor on possible remedial measures Advise ER on effectiveness of	Confirm receipt of notification of non-conformity in writing Review and agree on the remedial measures proposed by the Contractor Supervise implementation of remedial measures	Identify source and investigate the non-conformity Implement remedial measures Amend working methods agreed with ER as appropriate Rectify damage and undertake any necessary replacement
Repeated Non-conformity	1. Identify source(s) 2. Inform Contractor, IEC and ER 3. Discuss inspection frequency 4. Discuss remedial actions with IEC, ER and Contractor 5. Monitor remedial actions until rectification has been completed 6. If non-conformity stops, cease additional monitoring	proposed remedial measures 1. Check inspection report 2. Check Contractor's working method 3. Discuss with ET, ER and Contractor on possible remedial measures 4. Advise ER on effectiveness of proposed remedial measures	Notify the Contractor In consultation with the ET and IEC, agree with the Contractor on the remedial measures to be implemented Supervise implementation of remedial measures	1. Identify source and investigate the non-conformity 2. Implement remedial measures 3. Amend working methods agreed with ER as appropriate 4. Rectify damage and undertake any necessary replacement. Stop relevant portion of works as determined by ER until the non-conformity is abated.

Abbreviations: ET – Environmental Team, IEC – Independent Environmental Checker, ER – Engineer's Representative

Each step of actions required shall be implemented within 1 working day unless otherwise specified or agreed with EPD.

APPENDIX K SUMMARY OF EXCEEDANCE

Appendix K Exceedance Report

(A) Exceedance Report for Air Quality

Environmental Monitoring	Parameter	No. of non-project related Exceedance Action Limit Level Level		No. of Exceedance related to the Construction Activities of the Project	
				Action Level	Limit Level
A in Ovolity	1-hr TSP	0	0	0	0
Air Quality	24-hr TSP	0	0	0	0

(B) Exceedance Report for Construction Noise

Environmental Monitoring	Parameter	No. of non-project related Exceedance Ac		related Constru Activitie	of Exceedance related to the Construction ctivities of the Project	
		Action Limit Level Level	Action Level	Limit Level		
Noise	$L_{eq}(30 \text{ min.}) dB(A)$	0	0	0	0	

(C) Exceedance Report for Water Quality

Environmental Monitoring	Parameter	No. of non-project related Exceedance		No. of Exceedance related to the Construction Activities of the Project	
		Action Level	Limit Level	Action Level	Limit Level
	Dissolved Oxygen (DO)	0	0	0	0
Water Quality	Turbidity	0	0	0	0
	Suspended Solids (SS)	0	0	0	0

APPENDIX L SITE AUDIT SUMMARY

Contract No. YL/2020/01 - Development of Lok Ma Chau

Loop: Main Works Package 1 – Contract 1 Site Formation

and Infrastructure Works inside Lok Ma Chau Loop and

Western Connection Road Phase 1

Development of Lok Ma Chau Loop: Main Works Package 1 – Environmental Team

Contract No. YL/2020/01 – Development of Lok Ma Chau Loop: Main Works Package 1 –

Contract 1 Site Formation and Infrastructure Works inside Lok Ma Chau Loop and Western

Connection Road Phase 1

Weekly Site Inspection Record Summary

Checklist Reference Number	241002
Date	2 October 2024 (Wednesday)
Time	14:00-15:30

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	
241002-R01	Noise mitigation measures should be provided for the breaking works at Road L1.	C5
	D. Water Quality	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
241002-F01	The foam wastes at near the sedimentation tank near the meander bridge north should be cleared.	E10
	F. Land Contamination	
	No environmental deficiency was identified during site inspection.	
	G. Landscape and Visual	
	No environmental deficiency was identified during site inspection.	
	H. Ecology	
241002-R02	Sand bag bund along the fencing for the EA Zone should be properly deployed to avoid any gap.	H14
	I. Fisheries	
	No environmental deficiency was identified during site inspection.	
	J. Permits/Licences	
	No environmental deficiency was identified during site inspection.	
	K. Others	
	Follow-up on previous audit section (Ref. No.: 240925), follow-up action was required for items 240925-F01 which was remarked as 241002-F01.	

	Name	Signature	Date
Recorded by	Ivy Tam	Tun	2 October 2024
Checked by	Dr. Priscilla Choy	WF	2 October 2024

Development of Lok Ma Chau Loop: Main Works Package 1 – Environmental Team

Contract No. YL/2020/01 – Development of Lok Ma Chau Loop: Main Works Package 1 –

Contract 1 Site Formation and Infrastructure Works inside Lok Ma Chau Loop and Western

Connection Road Phase 1

Weekly Site Inspection Record Summary

Checklist Reference Number	241009
Date	9 October 2024 (Wednesday)
Time	14:30 – 15:30

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	
241009-F02	Noise mitigation measures should be provided for the breaking works at Road L1.	C5
	D. Water Quality	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
241009-F01	The foam wastes at near the sedimentation tank near the meander bridge north should be cleared.	E10
	F. Land Contamination	
	No environmental deficiency was identified during site inspection.	
	G. Landscape and Visual	
	No environmental deficiency was identified during site inspection.	
	H. Ecology	
241009-F03	Sand bag bund along the fencing for the EA Zone should be properly deployed to avoid any gap.	H14
	I. Fisheries	
	No environmental deficiency was identified during site inspection.	
	J. Permits/Licences	
	No environmental deficiency was identified during site inspection.	
	K. Others	
	Follow-up on previous audit section (Ref. No.: 241002), follow-up action was required for items 241002-F01 which was remarked as 241009-F01, items 241002-R01 which was remarked as 241009-F02 and items 241002-R02 which was remarked as 241009-F03.	

	Name	Signature	Date
Recorded by	Tim Lui	7	9 October 2024
Checked by	Dr. Priscilla Choy	WF	9 October 2024

Development of Lok Ma Chau Loop: Main Works Package 1 – Environmental Team

Contract No. YL/2020/01 – Development of Lok Ma Chau Loop: Main Works Package 1 –

Contract 1 Site Formation and Infrastructure Works inside Lok Ma Chau Loop and Western

Connection Road Phase 1

Weekly Site Inspection Record Summary

Checklist Reference Number	241016
Date	16 October 2024 (Wednesday)
Time	14:30 – 15:30

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	
241016-R01	Silt curtain should be properly deployed locally surrounding the works area and gap should be avoided at meander bridge.	D22
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Land Contamination	
	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. Fisheries	
	No environmental deficiency was identified during site inspection.	
	J. Permits/Licences	
	No environmental deficiency was identified during site inspection.	
	K. Others	
	Follow-up on previous audit section (Ref. No.: 241009), all identified environmental deficiencies were observed improved/ rectified by the Contractor.	

	Name	Signature	Date
Recorded by	Ivy Tam	Lug	16 October 2024
Checked by	Dr. Priscilla Choy	WF	16 October 2024

Development of Lok Ma Chau Loop: Main Works Package 1 – Environmental Team

Contract No. YL/2020/01 – Development of Lok Ma Chau Loop: Main Works Package 1 –

Contract 1 Site Formation and Infrastructure Works inside Lok Ma Chau Loop and Western

Connection Road Phase 1

Weekly Site Inspection Record Summary

Checklist Reference Number	241021
Date	21 October 2024 (Monday)
Time	10:00 – 11:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Air Quality	
	No environmental deficiency was identified during site inspection.	
	C. Noise	
	No environmental deficiency was identified during site inspection.	
	D. Water Quality	
241021-F01	• Silt curtain should be properly deployed locally surrounding the works area and gap should be avoided at meander bridge.	D22
241021-R01	• The construction wastes (e.g., handrail etc.) outside the fencing at Road L1 should be cleared.	D18
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Land Contamination	
	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. Fisheries	
	No environmental deficiency was identified during site inspection.	
	J. Permits/Licences	
	No environmental deficiency was identified during site inspection.	
	K. Others	
	Follow-up on previous audit section (Ref. No.: 241016), follow-up action was required for items 241016-R01 which was remarked as 241021-F01.	

	Name	Signature	Date
Recorded by	Ivy Tam	Tun	21 October 2024
Checked by	Dr. Priscilla Choy	WF	21 October 2024
		1	

Development of Lok Ma Chau Loop: Main Works Package 1 – Environmental Team

Contract No. YL/2020/01 – Development of Lok Ma Chau Loop: Main Works Package 1 –

Contract 1 Site Formation and Infrastructure Works inside Lok Ma Chau Loop and Western

Connection Road Phase 1

Weekly Site Inspection Record Summary

Checklist Reference Number	241030
Date	30 October 2024 (Wednesday)
Time	14:00 – 15:10

		Related
Ref. No.	Non-Compliance	Item No.
-	None identified	-
_		Related
Ref. No.	Remarks/Observations	Item No.
	B. Air Quality	
241030-R01	• Fugitive dust emission was observed during vehicle movement. Contractor was reminded to provide dust mitigation measures.	B1
	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. Landscape and Visual	
	No environmental deficiency was identified during site inspection.	
	H. Ecology	
	No environmental deficiency was identified during site inspection.	
	I. Fisheries	
	No environmental deficiency was identified during site inspection.	
	J. Permits/Licences	
	No environmental deficiency was identified during site inspection.	
	K. Others	
	Follow-up on previous audit section (Ref. No.: 241021), all identified environmental deficiencies were observed improved/ rectified by the Contractor.	

	Name	Signature	Date
Recorded by	Tim Lui	7	30 October 2024
Checked by	Dr. Priscilla Choy	WF	30 October 2024

Contract No. YL/2020/02 – Development of Lok Ma Chau
Loop: Main Works Package 1 – Contract 2 Western
Connection Road Phase 2, Connection Roads to Fanling /
San Tin Highway and Direct Road Link Phase 1

Development of Lok Ma Chau Loop: Main Works Package 1 - Environmental Team

Contract No. YL/2020/02 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling / San Tin Highway and Direct Road Link Phase 1

Weekly Site Inspection Record Summary

Checklist Reference Number	241002
Date	2 October 2024 (Wednesday)
Time	9:45-11:15

		Related
Ref. No.	Non-Compliance	Item No.
-	None identified	-
		Related
Ref. No.	Remarks/Observations	Item No.
	B. Air Quality	
241002-R01	• The broken concrete debris, sand and soil at the pedestrian walkway along LMC Road should be cleared.	В3
241002-R03	• NRMM labels should be properly displayed on the excavator / breaker at LMC Road.	B24
241002-R04	• The exposed soil at the LMC Road should be properly compacted or lowered the level.	B2
	C. Noise	
241002-R02	Movable noise barriers for the noisy breaking works should be erected at LMC Road.	C5 & C8
	D. Water Quality	
241002-F02	The site exit should be hard-paved to prevent tracking of mud by vehicles exiting construction sites (near DRL-P02 & 03).	D14iv.
241002-R06	• The collected groundwater should be properly treated and discharged with valid discharge license (Chau Tau West Road).	D6
241002-R07	• The site drainage system at the works area of box culvert should be properly established to avoid any muddy water discharging out (Chau Tau West Road).	D4 & D8
	E. Waste / Chemical Management	
241002-F01	• The domestic wastes should be properly disposed on site at near DRL-P05.	E1ii & iii
	F. Land Contamination	
	No environmental deficiency was identified during site inspection.	
	G. Landscape and Visual	
241002-R05	• The construction materials / wastes and concrete debris next to the trees / outside the site boundary should be removed (near Pun Uk Tsuen and Chau Tau West Road).	G1
	H. Ecology	
	No environmental deficiency was identified during site inspection.	
	I. Fisheries	
	No environmental deficiency was identified during site inspection.	
	J. Permits/Licences	
	No environmental deficiency was identified during site inspection.	
	K. Others	
	• Follow-up on previous audit section (Ref. No.: 240925), follow up action is required for the item 240925-R01 & R03, which was renamed as 241002-F01 & F02 respectively.	

	Name	Signature	Date
Recorded by	Ivy Tam	Lug	2 October 2024
Checked by	Dr. Priscilla Choy	WF	2 October 2024

Development of Lok Ma Chau Loop: Main Works Package 1 - Environmental Team

Contract No. YL/2020/02 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling / San Tin Highway and Direct Road Link Phase 1

Weekly Site Inspection Record Summary

Checklist Reference Number	241007
Date	7 October 2024 (Monday)
Time	9:30-11:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Air Quality	
	No environmental deficiency was identified during site inspection.	
	C. Noise	
	No environmental deficiency was identified during site inspection.	
	D. Water Quality	
241007-F01	• The site exit should be hard-paved to prevent tracking of mud by vehicles exiting construction sites (near DRL-P02 & 03).	D14iv.
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Land Contamination	
	No environmental deficiency was identified during site inspection.	
	G. Landscape and Visual	
	No environmental deficiency was identified during site inspection.	
	H. Ecology	
241007-R01	• The construction materials / wastes at near the Pond / outside the site boundary should be cleared (TAR1).	H12
	I. Fisheries	
	No environmental deficiency was identified during site inspection.	
	J. Permits/Licences	
	No environmental deficiency was identified during site inspection.	
	K. Others	
	• Follow-up on previous audit section (Ref. No.: 241002), follow up action is required for the item 241002-F02, which was renamed as 241007-F01.	

	Name	Signature	Date
Recorded by	Ivy Tam	Tun	7 October 2024
Checked by	Dr. Priscilla Choy	WF	7 October 2024

Development of Lok Ma Chau Loop: Main Works Package 1 - Environmental Team

Contract No. YL/2020/02 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling / San Tin Highway and Direct Road Link Phase 1

Weekly Site Inspection Record Summary

Checklist Reference Number	241016
Date	16 October 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. Noise	
	No environmental deficiency was identified during site inspection.	
	D. Water Quality	
241016-F01	• The site exit should be hard-paved to prevent tracking of mud by vehicles exiting construction sites (near DRL-P02 & 03).	D14iv.
241016-R03	• The sand bag bund for the bypass system should be enhanced (Fu Tai Site Area).	D4
	E. Waste / Chemical Management	
241016-R02	• Appropriate rubbish bin should be provided on site to avoid any rubbish falling into the	E1ii. &
	nearby nullah (Fu Tai Site Area).	E10
	F. Land Contamination	
	No environmental deficiency was identified during site inspection.	
	G. Landscape and Visual	
	No environmental deficiency was identified during site inspection.	
	H. Ecology	
241016-R01	• The green fences should be properly maintained to avoid any construction materials falling into the nearby channel (DRL-P07).	H1 & H12
	I. Fisheries	1112
	No environmental deficiency was identified during site inspection.	
	J. Permits/Licences	
	No environmental deficiency was identified during site inspection.	
	K. Others	
	• Follow-up on previous audit section (Ref. No.: 241007), follow up action is required for	
	the item 241007-F01, which was renamed as 241016-F01.	
	• The environmental deficiencies identified on 16 October 2024 have been rectified by the	
	Contractor on the same day after the site inspection.	

	Name	Signature	Date
Recorded by	Ivy Tam	Luy	16 October 2024
Checked by	Dr. Priscilla Choy	WF	16 October 2024

Development of Lok Ma Chau Loop: Main Works Package 1 - Environmental Team

Contract No. YL/2020/02 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling / San Tin Highway and Direct Road Link Phase 1

Weekly Site Inspection Record Summary

Checklist Reference Number	241024
Date	24 October 2024 (Thursday)
Time	9:45-10:45

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Air Quality	
241024-R01	Dust mitigation measures should be provided for the breaking works at CS1.	B10
	C. Noise	
241024-R01	Noise mitigation measures should be provided for the breaking works at CS1.	C5 & C8
	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. Landscape and Visual	
	No environmental deficiency was identified during site inspection.	
	H. Ecology	
	 No environmental deficiency was identified during site inspection. 	
	I. Fisheries	
	 No environmental deficiency was identified during site inspection. 	
	J. Permits/Licences	
	• No environmental deficiency was identified during site inspection.	
	K. Others	
	• Follow-up on previous audit section (Ref. No.: 241016), all identified environmental	
	deficiencies were observed improved/ rectified by the Contractor.	

	Name	Signature	Date
Recorded by	Ivy Tam	Lun	24 October 2024
Checked by	Dr. Priscilla Choy	WF	24 October 2024

Development of Lok Ma Chau Loop: Main Works Package 1 - Environmental Team

Contract No. YL/2020/02 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling / San Tin Highway and Direct Road Link Phase 1

Weekly Site Inspection Record Summary

Checklist Reference Number	241030
Date	30 October 2024 (Wednesday)
Time	9:30-11:15

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Air Quality	
241030-R01	• Dust suppression measures should be enhanced for the dust generation works and exposed site area at CS1, LCS and Chau Tau West Road.	B1 & B11
241030-R02	The mud trails at the site exit at Pun Uk Tsuen should be cleared.	В9
	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. Landscape and Visual	
	No environmental deficiency was identified during site inspection.	
	H. Ecology	
241030-R03	• The site boundary should be demarcated clearly with fencing next to the grassland and all construction wastes at the grassland should be cleared.	H2, H3 & H12
	I. Fisheries	
	No environmental deficiency was identified during site inspection.	
	J. Permits/Licences	
	No environmental deficiency was identified during site inspection.	
	K. Others	
	 Follow-up on previous audit section (Ref. No.: 241024), all identified environmental deficiencies were observed improved/ rectified by the Contractor. The deficiency, R01 has been rectified by the Contractor after the site inspection. 	

	Name	Signature	Date
Recorded by	Ivy Tam	Ly	30 October 2024
Checked by	Dr. Priscilla Choy	WF	30 October 2024

Contract No. YL/2021/01 – Development of Lok Ma Chau
Loop: Main Works Package 1 – Contract 3 Direct Road
Link Phase 2

Development of Lok Ma Chau Loop: Main Works Package 1 - Environmental Team

Contract No. YL/2021/01 – Direct Road Link Phase 2

Weekly Site Inspection Record Summary

Checklist Reference Number	241007
Date	7 October 2024 (Monday)
Time	14:00-15:00

		Related
Ref. No.	Non-Compliance	Item No.
-	None identified	
		Related
Ref. No.	Remarks/Observations	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. Landscape and Visual	
	No environmental deficiency was identified during site inspection.	
	H. Ecology	
	No environmental deficiency was identified during site inspection.	
	I. Fisheries	
	No environmental deficiency was identified during site inspection.	
	J. Permits/Licences	
	No environmental deficiency was identified during site inspection.	
	K. Others	
	• Follow-up on previous audit section (Ref. No.:240930), no major environmental	
	deficiency was identified during the site inspection.	

	Name	Signature	Date
Recorded by	Ivy Tam	Ly	7 October 2024
Checked by	Dr. Priscilla Choy	WF	7 October 2024

Development of Lok Ma Chau Loop: Main Works Package 1 - Environmental Team

Contract No. YL/2021/01 – Direct Road Link Phase 2

Weekly Site Inspection Record Summary

Checklist Reference Number	241014
Date	14 October 2024 (Monday)
Time	14:00-15:15

- None identified Ref. No. Remarks/Observations 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. Landscape and Visual • No environmental deficiency was identified during site inspection. H. Ecology • No environmental deficiency was identified during site inspection. I. Fisheries • No environmental deficiency was identified during site inspection. J. Permits/Licences • No environmental deficiency was identified during site inspection. K. Others • Follow-up on previous audit section (Ref. No.:241007), no major environmental			Related
Ref. No. Remarks/Observations 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. Landscape and Visual No environmental deficiency was identified during site inspection. H. Ecology No environmental deficiency was identified during site inspection. I. Fisheries No environmental deficiency was identified during site inspection. J. Permits/Licences No environmental deficiency was identified during site inspection. K. Others Follow-up on previous audit section (Ref. No.:241007), no major environmental	Ref. No.	Non-Compliance	Item No.
Ref. 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. Landscape and Visual No environmental deficiency was identified during site inspection. H. Ecology No environmental deficiency was identified during site inspection. J. Fisheries No environmental deficiency was identified during site inspection. J. Permits/Licences No environmental deficiency was identified during site inspection.	-	None identified	-
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. Landscape and Visual No environmental deficiency was identified during site inspection. H. Ecology No environmental deficiency was identified during site inspection. J. Fisheries No environmental deficiency was identified during site inspection. J. Permits/Licences No environmental deficiency was identified during site inspection.			
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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. Landscape and Visual No environmental deficiency was identified during site inspection. H. Ecology No environmental deficiency was identified during site inspection. I. Fisheries No environmental deficiency was identified during site inspection. J. Permits/Licences No environmental deficiency was identified during site inspection. K. Others Follow-up on previous audit section (Ref. No.:241007), no major environmental			
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• Follow-up on previous audit section (Ref. No.:241007), no major environmental			
		K. Others	
deficiency was identified during the site inspection.		• Follow-up on previous audit section (Ref. No.:241007), no major environmental	
		deficiency was identified during the site inspection.	

	Name	Signature	Date
Recorded by	Ivy Tam	Tun	14 October 2024
Checked by	Dr. Priscilla Choy	WF	14 October 2024

Development of Lok Ma Chau Loop: Main Works Package 1 - Environmental Team

Contract No. YL/2021/01 – Direct Road Link Phase 2

Weekly Site Inspection Record Summary

Checklist Reference Number	241021
Date	21 October 2024 (Monday)
Time	14:45-15:45

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Air Quality	
	No environmental deficiency was identified during site inspection.	
	C. Noise	
	No environmental deficiency was identified during site inspection.	
	D. Water Quality	
241021-R01	• The concrete washing water from the deck surface (DDFB) should be properly collected to avoid discharging outside the site boundary.	D3
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Land Contamination	
	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. Fisheries	
	No environmental deficiency was identified during site inspection.	
	J. Permits/Licences	
	No environmental deficiency was identified during site inspection.	
	K. Others	
	• Follow-up on previous audit section (Ref. No.:241014), no major environmental deficiency was identified during the site inspection.	

	Name	Signature	Date
Recorded by	Ivy Tam	Tun	21 October 2024
Checked by	Dr. Priscilla Choy	WF	21 October 2024

Development of Lok Ma Chau Loop: Main Works Package 1 - Environmental Team

Contract No. YL/2021/01 – Direct Road Link Phase 2

Weekly Site Inspection Record Summary

Checklist Reference Number	241028
Date	28 October 2024 (Monday)
Time	14:00-15:00

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Air Quality	
	No environmental deficiency was identified during site inspection.	
	C. Noise	
	No environmental deficiency was identified during site inspection.	
	D. Water Quality	
241028-R01	Sand bag bund should be properly deployed along the boundary of earth works at EPTI.	D4
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Land Contamination	
	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. Fisheries	
	No environmental deficiency was identified during site inspection.	
	J. Permits/Licences	
	No environmental deficiency was identified during site inspection.	
	K. Others	
	• Follow-up on previous audit section (Ref. No.:241021), all environmental deficiencies was improved/rectified by the Contractor.	

	Name	Signature	Date
Recorded by	Ivy Tam	Tun	28 October 2024
Checked by	Dr. Priscilla Choy	WF	28 October 2024

APPENDIX M ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

fEIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location of the	When to	Implementation
	Log		recommended	implement	measures	Implement the	Status
	Ref		Measures & Main	the		measures?	
			Concerns to address	measures?			
Construct	ion Dust I	mpact					
S3.8	D1-DP	Mitigation measures in form of regular watering under a good site	Minimize dust impact at	Contractor	All construction	Construction	*
	1/DP2/	practice should be adopted. Watering once per hour on exposed worksites and haul road is proposed to achieve dust removal	the nearby sensitive		sites	stage	
	DP3	efficiency of 92.1%. While the above watering frequencies are to	receivers				
		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 1.6 L/m2 to achieve the respective dust					
		removal efficiencies		_			
S3.8	D2-DP	The contractor shall follow the procedures and requirements	Reduce air pollution	Contractor	All construction	Construction	
	1/DP2/	given in the Air Pollution Control (Construction Dust) Regulation	emission from		sites	stage	
	DP3	All vehicles shall be shut down in intermittent use	construction vehicles and				۸
		Only well-maintained plant should be operated on-site to	plants				۸
		avoid emission of dark smoke					
		Valid No-Road Mobile Machinery (NRMM) labels should be					*
		provided to regulated machines					
S3.8	D2-DP	Following dust suppression measures should also be	Minimize dust impact at	Contractor	All construction	Construction	۸
	1/DP2/	incorporated by the Contractor to control the dust nuisance throughout the construction Phase	the nearby sensitive		sites	stage	
	DP3	Any excavated or stockpile of dusty material should be	receivers				۸
		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;					۸
		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 material do not leak from					

fEIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location of the	When to	Implementation
	Log		recommended	implement	measures	Implement the	Status
	Ref		Measures & Main	the		measures?	
			Concerns to address	measures?			
		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, hoarding of not less than 2.4m high should be provided as far as practicable along the site boundary with provision for public crossing. Good site practice shall also be adopted by the Contractor to ensure the conditions of the hoardings are properly maintained throughout the construction period. The portion of any road leading only to construction site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials; Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed with water or a dust suppression chemical continuously; Any area that involves demolition activities should be sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities so as to maintain the entire surface wet; Where a scaffolding is erected around the perimeter of a building under construction, effective dust screens, sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building, or a canopy should be provided from the first floor level up to the highest level of the scaffolding; Any skip hoist for material transport should be totally enclosed by impervious sheeting;	Concerns to address	measures?			^ ^
		 Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by 					

fEIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location of the	When to	Implementation
	Log		recommended	implement	measures	Implement the	Status
	Ref		Measures & Main	the		measures?	
			Concerns to address	measures?			
		 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 					N/A N/A
		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.					
S3.8	D4-DP	Implement regular dust monitoring under EM&A programme	Monitoring of dust impact	Contractor	Selected	Construction	۸
	1/DP2/	during the construction stage.			representative	stage	
	DP3				dust		
					monitoring		
					station		
Construct	ion Noise	Impact					
S4.8	N-CP1-	Implement the following good site management practices:	Control construction	Contractor	All construction	Construction	
	DP1/D	 Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction 	airborne		sites	stage	۸
	P2/DP3	 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 possible, be orientated so that the noise is directed away 	noise				۸
		from nearby NSRs; silencers or mufflers on construction					

fEIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location of the	When to	Implementation
	Log		recommended	implement	measures	Implement the	Status
	Ref		Measures & Main	the		measures?	
			Concerns to address	measures?			
		 equipment should be properly fitted and maintained during the construction works; Mobile plant should be sited as far away from NSRs as possible and practicable; Material stockpiles, mobile container site office and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities. 					۸
S4.8	N-CP2-	Install temporary site hoarding (approx 2.4m high) located on the site boundaries between noisy construction activities and NSRs.	Reduce the construction	Contractor	All construction	Construction	۸
	DP1/D	The conditions of the hoardings shall be properly maintained	noise levels at low-level		sites where	phase	
	P2/DP3	throughout the construction period.	zone of NSRs through		practicable		
			partial screening.				
S4.8	N-CP3-	Install movable noise barriers and full enclosure, screen the noisy plants including air compressor and generator.	Screen the noisy plant	Contractor	All construction	Construction	*
	DP1/D	plants including all compressor and generator.	items to be used at all		sites where	phase	
	P2/DP3		construction sites		practicable		
S4.8	N-CP4-	Use of "Quiet" Plant and Working Methods	Reduce the noise levels	Contractor	All construction	Construction	٨
	DP1/D		of plant items		sites where	phase	
	P2/DP3				practicable		
S4.8	N-CP5-	Sequencing operation of construction plants where practicable.	Operate sequentially	Contractor	All construction	Construction	۸
	DP1/D		within the same work site		sites where	phase	
	P2/DP3		to reduce the		practicable		
			construction airborne				
			noise				
S4.8	N-CP6-	Setting the concrete lorry mixer at around 25m away from the existing NSRs along Ha Wan Tsuen Road and Lok Ma Chau	Reduce the noise levels	Contractor	Sections with	Construction	۸
	DP2	Road Road	from concrete lorry mixer		NSRs along Ha	phase	
					Wan Tsuen		
					Road and Lok		

fEIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location of the	When to	Implementation
	Log		recommended	implement	measures	Implement the	Status
	Ref		Measures & Main	the		measures?	
			Concerns to address	measures?			
					Ma Chau Road		
S4.8	N-CP8-	Provide temporary noise barrier during construction phase.	Control airborne noise	Contractor	Refer to Figure	Construction	۸
	DP2		from construction access		4-8 of the EIA	phase	
			road traffic		report		
S4.8	N-CP7-	Implement a noise monitoring under EM&A programme.	Monitor the construction	Contractor	Selected	Construction	۸
	DP2/N-		noise levels at the		representative	phase	
	CP6-D		selected representative		noise monitoring		
	P1/N-C		locations		station		
	P6-DP3						
Water Qua	lity Impac	et (Construction Phase)					
S5.7	W1-CP	Construction Runoff and Site Drainage	Minimize water quality	Contractor	All construction	Construction	
	-DP1/D	In accordance with the Practice Note for Professional Persons on Construction Site Drainage, Environmental Protection	impact from construction		sites where	phase	
	P2/DP3	Department, 1994 (ProPECC PN 1/94), construction phase mitigation	site runoff and general		practicable		
		measures,	construction activities				
		where appropriate, should include the following:					۸
		Update and implementation of Stormwater Pollution Control Plan					
		At the start of site establishment, perimeter cut-off drains					*
		to direct off-site water around the site should be					
		constructed with internal drainage works and erosion and					
		sedimentation control facilities implemented. Channels					
		(both temporary and permanent drainage pipes and					
		culverts), earth bunds or sand bag barriers should be					
		provided on site to direct stormwater to silt removal					
		facilities. The design of the temporary on-site drainage					
		system will be undertaken by the contractor prior to the					
		commencement of construction.					

EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location of the	When to	Implementation
Log		recommended	implement	measures	Implement the	Status
Ref		Measures & Main	the		measures?	
		Concerns to address	measures?			
	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 8 m3 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 inputs from a variety of sources and suited to					
	applications where the influent is pumped.					
	The dikes or embankments for flood protection should be					
	implemented around the boundaries of earthwork areas.					*
	Temporary ditches should be provided to facilitate the					
	runoff discharge into an appropriate watercourse, through					
	a silt/sediment trap. The silt/sediment traps should be					
	incorporated in the permanent drainage channels to					
	enhance deposition rates.					
	The design of efficient silt removal facilities should be					^
	based on the guidelines in Appendix A1 of ProPECC PN					
	1/94. The detailed design of the sand/silt traps should be					
	undertaken by the contractor prior to the commencement					
	of construction.					
	Construction works should be programmed to minimize					
	surface excavation works during the rainy seasons (April					
	to September). All exposed earth areas should be					۸
	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					

fEIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location of the	When to	Implementation
	Log		recommended	implement	measures	Implement the	Status
	Ref		Measures & Main	the		measures?	
			Concerns to address	measures?			
		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 foundation excavations should be discharged into storm drains via silt removal facilities. All open stockpiles of construction materials (for example, aggregates, sand and fill material) of 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					*
		-					۸

Ref	fEIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location of the	When to	Implementation
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 wheelwash bay to prevent vehicle tracking of soil and silty water to public roads and drains. Oil interceptors should be provided in the drainage system downstream of any oil/fuel pollution sources. 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		Log		recommended	implement	measures	Implement the	Status
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 wheelwash bay to prevent vehicle tracking of soil and silty water to public roads and drains. Oil interceptors should be provided in the drainage system downstream of any oil/fuel pollution sources. 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		Ref		Measures & Main	the		measures?	
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 wheelwash bay to prevent vehicle tracking of soil and sitty water to public roads and drains. Oil interceptors should be provided in the drainage system downstream of any oilifuel 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 soilid 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				Concerns to address	measures?			
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should be collected, handled and disposed of properly to avoid water quality impacts. • All fuel tanks and storage areas should be provided with	1		flushing during heavy rain.					
avoid water quality impacts. • All fuel tanks and storage areas should be provided with	1		· Construction solid waste, debris and rubbish on site					*
All fuel tanks and storage areas should be provided with	1		should be collected, handled and disposed of properly to					
	1		avoid water quality impacts.					
	1		All fuel tanks and storage areas should be provided with					
	1		locks and sited on sealed areas, within bunds of a					٨
capacity equal to 110% of the storage capacity of the	1		capacity equal to 110% of the storage capacity of the					
largest tank to prevent spilled fuel oils from reaching	1		largest tank to prevent spilled fuel oils from reaching					
water sensitive receivers nearby.	1		-					
Regular environmental audit on the construction site								
should be carried out in order to prevent any			-					٨
malpractices. Notices should be posted at conspicuous			•					^
locations to remind the workers not to discharge any								

fEIA Ref.	EM&A Log	Recommended Mitigation Measures	Objectives of the recommended	Who to implement	Location of the measures	When to Implement the	Implementation Status
	Ref		Measures & Main	the		measures?	
			Concerns to address	measures?			
		sewage or wastewater into the meander, wetlands and fish ponds.					
S5.7	W3-CP	Groundwater from Contaminated Area	Minimize groundwater	Contractor	Areas where	Construction	
	-DP1/D	No mitigation measure is required for groundwater	quality impact from		contamination is	phase	
	P2/DP3	treatment in LMC Loop. • Additional investigation is required to identify if	contaminated area		found.		N/A
		contaminated groundwater is found.					
		If the investigation results indicated that the groundwater					N/A
		to be generated from construction works would be					
		contaminated, the contaminated groundwater should be either discharged into recharged wells, or properly treated					N/A
		in compliance with the requirements of Technical					
		Memorandum on Standards for Effluents Discharged into					
		Drainage on Sewerage Systems, Inland and Coastal					
		Waters.					N/A
		If recharged well method were used, the groundwater					IN/A
		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					N/A
		and petrol interceptor, should be submitted to the EPD					
		and a discharge license should be obtained under the					
S5.7	W3-CP	WPCO through the Regional Offices of EPD. Sewage from Workforce	Minimize water quality	Contractor	All construction	Construction	
	-DP1/D	Portable chemical toilets and sewage holding tanks	from sewage effluent		sites where	phase	٨
		should be provided for handling the construction sewage	nom sewaye emuent			μπασσ	
	P2/DP3	generated by the workforce. A licensed contractor should			practicable		
		be employed to provide appropriate and adequate					

fEIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location of the	When to	Implementation
	Log		recommended	implement	measures	Implement the	Status
	Ref		Measures & Main	the		measures?	
			Concerns to address	measures?			
		portable toilets to cater 0.15m3/day/employed populations and be responsible for appropriate disposal and maintenance. Notices should be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the nearby environment during the construction phase of the Project.					^
		Regular environmental audit on the construction site should be conducted in order to provide an effective control of any malpractices and achieve continual improvement of environmental performance on site.					۸
S5.7	W4-CP	Riverbanks Formation	Minimize water quality	Contractor	Riverbank	Construction	
	-DP1	 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 within a cofferdam or diaphragm wall. 	impact from riverbank works		works	Phase	^
		Water quality of the Shenzhen River and the meander would be monitored to ensure effectiveness of the implemented mitigation measures.					۸
S5.7	W1-CP	Bio-remediation in Shenzhen River	Minimize water quality	Contractor	Shenzhen River	Construction	
	-BR	 Water quality monitoring and audit is recommended to ensure that the proposed bio-remediation operation would not result in adverse water quality impact. Details of the water quality monitoring programme are presented in the EM&A Manual. If unacceptable water quality impact in the receiving water is recorded, additional measures such as slowing down, or rescheduling of works should be 	impact from bio-remediation of Shenzhen River		where practicable	phase	N/A

fEIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location of the	When to	Implementation
	Log		recommended	implement	measures	Implement the	Status
	Ref		Measures & Main	the		measures?	
			Concerns to address	measures?			
		implemented as necessary.					
S5.7	W4-CP	Construction of Viaduct across Reedbed in LMC Station	Minimize water quality	Contractor	Construction	Construction	N/A
	-DP3	As a precautionary measures, three options are recommended to	impact from of viaduct on		sites across	phase	
		ensure the compliance of No Net Increase in Pollution Load in	reedbed		reedbed in LMC		
		Deep Bay for further consideration. They include:			Station		
		On-site compensate the same area of the occupied					
		reedbed; Provide pilot plant during construction; or					
		Increase the hydraulic retention time of the proposed					
		Loop STW.					
		Details of these measures will be subject to further liaison with					
		MTRC and a separate VEP application.					
S5.7	W5-CP	Construction of Bridge Crossing	Minimize water quality	Contractor	Construction	Construction	N/A
	-DP2/D	Good site management as stipulated in ProPECC PN1/94	impact from construction		sites for bridge	phase	
	P3	should be fully implemented to avoid polluted liquid or	of bridge crossing		crossing where		
		solid wastes from falling into the WSRs.	o o		practicable		N/A
		 All the fishponds will be drained and no fishpond will be affected by bridge crossing. 			praesieable		14/7 (
		In the meander, cofferdam or diaphragm walls should be					N/A
		deployed for protecting fish ponds or nearby rivers during					N/A
		bridge pier construction and or road widening work at					
		fishponds.					
		For the low level viaducts crossing the small streams at					N/A
		Ma Tso Lung, Ping Hang and channel near Lung Hau					
		Road, precast structures will be used such that there will					
		be no construction work in the water streams, and thus, to					
		avoid direct water quality impacts.					

fEIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location of the	When to	Implementation
	Log		recommended	implement	measures	Implement the	Status
	Ref		Measures & Main	the		measures?	
			Concerns to address	measures?			
Waste Mai	nagement	(Construction Waste)					
S7.6	WM1-D	Waste Reduction Measures	Reduce waste generation	Contractor	All construction	Construction	
	P1/DP2	Waste reduction is best achieved at the planning and design			sites where	phase	
	/DP3	phase, as well as by ensuring the implementation of good site practices. The following recommendations are proposed to			practicable		
		achieve reduction:					
							۸
		Segregate and store different types of waste in different					
		containers, skip or stockpiles to enhance reuse or recycling of materials and their proper disposal;					
		 proper storage and site practices to minimize the potential 					۸
		for damage and contamination of construction materials;					^
		plan and stock construction materials carefully to					
		minimize amount of waste generated and avoid					
		unnecessary generation of waste;					
		 sort out demolition debris and excavated materials from demolition works to recover reusable/recyclable portions 					۸
		(i.e. soil, broken concrete, metal etc.);					
		provide training to workers on the importance of					۸
		appropriate waste management procedures, including					
07.0	14/140 D	waste reduction, reuse and recycling. Prepare Waste Management Plan and submit to the Engineer for		0 1 1	A.I:	0 1 11	۸
S7.6	WM2-D	approval	Minimize waste	Contractor	All construction	Construction	Α
	P1/DP2		generation during		sites	phase	
	/DP3		construction				
S7.6	WM2-D	Good Site Practice	Minimize waste	Contractor	All construction	Construction	
	P1/DP2	The following good site practices are recommended throughout	generation during		sites	phase	
	/DP3	the construction activities:Nomination of an approved personnel, such as a site	construction				
		manager, to be responsible for the implementation of					۸

fEIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	Implementation Status
		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; 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;	Concerns to address	illeasures :			*
S7.6	WM4-D P1/DP2 /DP3	Storage of Waste The following recommendation should be implemented to minimize the impacts: • Waste such as soil should be handled and stored well to ensure secure containment; • Stockpiling area should be provided with covers and water spraying system to prevent materials from wind-blown or being washed away; • Different locations should be designated to stockpile each material to enhance reuse;	Minimize waste generation during construction	Contractor	All construction sites	Construction phase	^
S7.6	WM5-D P1/DP2 /DP3	Collection and Transportation of Waste The following recommendation should be implemented to minimize the impacts: Remove waste in timely manner; Employ the trucks with cover or enclosed containers for waste transportation;	Minimize waste impact from storage	Contractor	All construction sites	Construction phase	*

fEIA Ref.	EM&A Log	Recommended Mitigation Measures	Objectives of the recommended	Who to implement	Location of the measures	When to	Implementation Status
	Ref		Measures & Main	the		measures?	
			Concerns to address	measures?			
		 Obtain relevant waste disposal permits from the appropriate authorities; and Disposal of waste should be done at licensed waste disposal facilities. 					^
S7.6	WM6-D	Excavated and C&D Material	Minimize waste impacts	Contractor	All construction	Construction	
	P1/DP2 /DP3	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	from excavated and C&D material		sites	phase	
		the excavated and C&D materials: • Maintain temporary stockpiles and reuse excavated fill material for backfilling;					^
		Carry out on-site sorting;					۸
		 Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate; and 					۸
		 Implement a trip-ticket system for each works contract to ensure that the disposal of C&D materials are properly documented and verified. 					۸
		The recommended C&D materials handling should include: On-site Sorting of C&D Materials					٨
		Reuse of C&D Materials					۸
		Use of Standard Formwork and Planning of Construction					^
		Materials Purchasing					
		Provision of Wheel Wash Facilities					۸
		Details refer to Section 7.6.1.4 of the EIA report.					
S7.6	WM7-D	Contaminated Soil	Remediate contaminated	Contractor	All construction	Construction	
	P1/DP2	As a precaution, it is recommended that standard good site practice should be implemented during the construction phase to	soil		sites where	phase	N/A

fEIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location of the	When to	Implementation
	Log		recommended	implement	measures	Implement the	Status
	Ref		Measures & Main	the		measures?	
			Concerns to address	measures?			
	/DP3	minimize any potential exposure to contaminated soils or groundwater. The details of mitigation measures to minimize the potential environmental implications arising from the handling of contaminated materials refer to Land Contamination Section.			applicable		
S7.6	WM8-D	Chemical Waste	Control the chemical	Contractor	All construction	Construction	
	P1/DP2	If chemical wastes are produced at the construction site,	waste and ensure proper		sites	phase	۸
	/DP3	the Contractors should register with EPD as chemical	storage, handling and				
		waste producers. Chemical wastes should be stored in	disposal				
		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.					
S7.6	WM9-D	General Waste	Minimize production of	Contractor	All construction	Construction	
	P1/DP2	General refuse should be stored in enclosed bins	the general refuse and		sites	phase	^
	/DP3	separately from construction and chemical wastes.	avoid odour, pest and				
		Recycling bins should also be placed to encourage	litter impacts				
		recycling.					۸
		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					

fEIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location of the	When to	Implementation
	Log		recommended	implement	measures	Implement the	Status
	Ref		Measures & Main	the		measures?	
			Concerns to address	measures?			
		general refuse on a daily basis.					
S7.6	WM10-	<u>Sewage</u>	Minimize production of	Contractor	All construction	Construction	
	DP1/D	The WMP should document the locations and number of	sewage impacts		sites	phase	۸
	P2	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.					
S7.6	WM11-	<u>Sediment</u>	Minimize waste impacts	Contractor	All construction	Construction	
	DP2	The following mitigation measures are recommended during	from sediment		sites	phase	
		transportation and stockpiling:					
		stockpiling area(s) must be properly designed and closed					N/A
		to the dredging locations as far as possible;					
		Stockpiling area(s) should be lined with impermeable					N/A
		sheeting and bunded;					
		stockpiles should be properly covered by impermeable					N/A
		sheeting;					
		vehicles delivering the sediments should be covered, and					N/A
		truck bodies and tailgates should be sealed to prevent any					
		discharge during transportation;					
		bulk earth moving equipments should be utilized as much					N/A
		as possible to minimize workers' handling and contact of					
		the excavated materials; and					
		personal protective clothing should be provided to site					N/A
		workers.					

fEIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location of the	When to	Implementation
	Log		recommended	implement	measures	Implement the	Status
	Ref		Measures & Main	the		measures?	
			Concerns to address	measures?			
		In case contamination of excavated materials is confirmed after					
		testing, the mitigation measures described in Land					
		Contamination Impacts section should also be implemented to					
		minimize potential environmental impacts.					
Land Cont	amination						
S8.7	LC1-D	Remediation of arsenic-contaminated soil	To remediate	Project	LMC Loop,	Prior to	
	P2/DP3	"Solidification/Stabilization" (S/S) treatment method was	arsenic-contaminated soil	Proponent/	contaminated	commencement	N/A
		proposed for the remediation of arsenic-contaminated soil.		Contractor	area	of construction	
		Toxicity Characteristic Leaching Procedure (TCLP) test				works within the	
		should be undertaken after S/S in order to ensure that the				contaminated	
		contaminant will not leach to the environment. Unconfined				area	
		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. Off-site disposal or reuse of the solidified material is					
		not allowed.					
S8.7	LC1-D	Excavation and Transportation	To minimise the potential	Contractor	Contaminated		
	P1/DP2	Excavation profiles must be properly designed and	environmental impacts		area		N/A
	/DP3	executed with attention to the relevant requirements for	arising from the handling				
		environment, health and safety;	of				
		In case the soil to be excavated is situated beneath the	contaminated materials				
		groundwater table, it may be necessary to lower the					N/A
		groundwater table by installing well points or similar					
		means;					

fEIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location of the	When to	Implementation
	Log		recommended	implement	measures	Implement the	Status
	Ref		Measures & Main	the		measures?	
			Concerns to address	measures?			
		Excavation should be carried out during dry season as far					N/A
		as possible to minimise contaminated runoff from					
		contaminated soils;					N/A
		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					
		contaminated soil to minimize contaminated runoff;					N/A
		Supply of suitable clean backfill material after excavation, if					
		required;					N/A
		Vehicles containing any excavated materials should be					
		suitably covered to limit potential dust emissions or					
		contaminated run-off, and truck bodies and tailgates should					
		be sealed to prevent any discharge during transport or					
		during wet season;					N/A
		Speed control for the trucks carrying contaminated					
		materials should be enforced; and					N/A
		Vehicle wheel washing facilities at the site's exit points					
		should be established and used.					
S8.7	LC3-D	Solidification/Stabilization	To minimize the potential	Contractor	Contaminated	The course of	
	P1/DP2	The loading, unloading, handling, transfer or storage of	environmental impacts		area	remediation	N/A
	/DP3	cement should be carried out in an enclosed system;	arising from the handling				
		Mixing process and other associated material handling	of contaminated materials				N/A

fEIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location of the	When to	Implementation
	Log		recommended	implement	measures	Implement the	Status
	Ref		Measures & Main	the		measures?	
			Concerns to address	measures?			
		activities should be properly scheduled to minimise					
		potential noise impact and dust emission;					
		The mixing facilities should be sited as far apart as					N/A
		practicable from the nearby noise sensitive receivers;					
		Mixing of contaminated soil and cement / water / other					N/A
		additive(s) should be undertaken at a solidification plant to					
		minimise the potential for leaching;					
		Runoff from the solidification / stabilization area should be					N/A
		prevented by constructing a concrete bund along the					
		perimeter of the solidification / stabilization area;					
		The run-off contained in the concrete bund area along the					N/A
		perimeter of the paved solidification / stabilization area, if					
		any, will be collected, stored and used for the mixing					
		process of cement / contaminated soil;					
		If stockpile of treated soil is required, the stockpiling site(s)					N/A
		should be lined with impermeable sheeting and bunded.					
		Stockpiles should be properly covered by impermeable					N/A
		sheeting to reduce dust emission during dry season or site					
		run-off during rainy season; and If necessary, there should					
		be clear and separated areas for stockpiling of untreated					
		and treated materials.					
S8.7	LC4-D	Safety Measures	To minimize the potential	Contractor	Contaminated	The course of	N/A
	P3	Set up a list of safety measures for site workers;	adverse effects on health		area	remediation	
		Provide written information and training on safety for site	and safety of construction				

fEIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location of the	When to	Implementation
	Log		recommended	implement	measures	Implement the	Status
	Ref		Measures & Main	the		measures?	
			Concerns to address	measures?			
		workers;	workers				
		Keep a log-book and plan showing the contaminated zones					
		and clean zones;					
		Maintain a hygienic working environment;					
		Avoid dust generation;					
		Provide face and respiratory protection gear to site workers					
		if necessary;					
		Provide personal protective clothing (e.g. chemical					
		resistant jackboot, liquid tight gloves) to site workers, if					
		necessary;					
		Provide first aid training and materials to site worker;					
		Bulk earth moving equipment should be utilized as much					
		as possible to minimize workers' handling and contact of					
		the contaminated materials; and					
		Eating, drinking and smoking should not be allowed in					
		contaminated areas to avoid inadvertent ingestion of					
		contaminant.					
S8.8	LC5-D	Re-appraisal on the entire contamination assessment area for	Ensure any potential	Project	Entire	After land	^
	P3	associated infrastructure in the adjacent areas in Hong Kong	contamination activities	Proponent	contamination	resumption	
		outside LMC Loop.	from land use changes	/Detailed	assessment		
			after the approval of this	design	area for		
			land contamination	consultant	associated		
			assessment study		infrastructure in		
			_		the adjacent		

fEIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location of the	When to	Implementation
	Log		recommended	implement	measures	Implement the	Status
	Ref		Measures & Main	the		measures?	
			Concerns to address	measures?			
					areas in Hong		
					Kong outside		
					LMC Loop		
Landscap	e and Visu	al Impact (Construction Phase)					
S11.5.4	L-CP1-	Preservation and Protection of Existing Trees (Good Site	Avoid disturbance and	Detailed	Within project	Detailed design	
Table11.5	DP1/D	Practice)	protection of existing	design	site	and construction	
.9	P3	The proposed works should avoid disturbance to the	trees	consultant/		phase	*
		existing trees within and close to the works areas. The tree		Contractor			
		preservation proposals shall be coordinated with the layout					
		and design of the engineering and architectural works at					
		detailed design phase for further retention of individual					
		trees.					۸
		It is recommended that a full detailed tree survey and					
		felling application will be undertaken and submitted for					
		approval by the relevant government departments in					
		accordance with ETWB TCW No. 3/2006, 'Tree					
		Preservation'. This will be conducted during the detailed					
		design phase of the project and submitted to DLO for					
		approval. The methodology and scope including the					
		programme for the tree survey and felling application are					
		also subject to the approval of the relevant authorities.					
		Trees which are not in conflict with the proposals would be					^
		retained and shall be protected by means of fencing during					
		construction phase to prevent damage to tree canopies					

fEIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location of the	When to	Implementation
	Log		recommended	implement	measures	Implement the	Status
	Ref		Measures & Main	the		measures?	
			Concerns to address	measures?			
		and root zones from vehicles and storage of materials.					
		Specifications for the protection of existing trees will be					۸
		provided during the preparation of the detailed tree survey					
		by Detailed Design consultants at detailed design and					
		construction phase.					
S11.5.4	L-CP2-	Works Area and Temporary Works Areas (Good Site Practice)	Minimize landscape	Contractor	The whole	Construction	
Table	DP1/D	The construction sequence and construction programme	impacts		project area	phase	۸
11.5.9	P2/DP3	shall be optimized in order to minimize the duration of			where		
		impact.			applicable		
		Construction site controls shall be enforced including the					۸
		storage of materials, the location and appearance of site					
		accommodation and site storage; and the careful design of					
		site lighting to prevent light spillage.					
		The temporary works areas shall be restored to its original					۸
		condition or enhanced through the introduction of new					
		amenity areas or planting areas following the completion of					
		the construction phase.					
	L-CP3-	Advance Implementation of Mitigation Planting	Minimize landscape	Contractor	The whole	Construction	
	DP1/D	Replanting of existing / disturbed vegetation shall be	impacts		project area	phase	^
	P2/DP3	undertaken at the earliest possible stage of the			where		
		construction phase of the project using predominantly			applicable		
		native plant species although ornamental species may be					
		used for roadside planting and amenity areas.					
	L-CP4-	<u>Transplantation of Existing Trees</u>	Minimize landscape	Contractor	The whole	Construction	

fEIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location of the	When to	Implementation
	Log		recommended	implement	measures	Implement the	Status
	Ref		Measures & Main	the		measures?	
			Concerns to address	measures?			
	DP1/D	Some specimens have relatively higher amenity value	impacts		project area	phase	۸
	P2/DP3	which are in conflict with the proposals shall be considered			where		
		for transplantation. For trees affected by the proposed			applicable		
		infrastructure works the final receptor sites shall be					
		preferably adjacent to their current locations alongside of					
		the alignment to retain their contribution to the local					
		landscape context. For the LMC Loop the receptor					
		locations will be selected to allow the trees to be moved					
		directly to their final locations in accordance with the					
		detailed landscape proposals.					۸
		The transplanting proposals are subject to review at the					
		detailed design phase and to agreement-in-principle with					
		the relevant management and maintenance agents and/or					
		government departments. The implementation programme					
		for the proposed works shall reserve sufficient time for the					
		advanced tree transplanting preparation works to enhance					
		the survival of the transplanted trees.					
		The transplanting proposals will be subject to the findings					۸
		of the detailed tree survey and felling application to be					
		undertaken by the detailed design consultants and					
		following approval by the relevant departments.					
	L-CP6-	Creation of Wetland and Landscape Buffer	Compensation of the loss	Project	The whole	Detailed design,	
	DP1/D	The existing reedbed acquired for development areas for	of landscape resources	Proponent/	project area	construction and	۸
	P2	the project will be reinstated as part of the Ecological Area.		Detailed	where	operational	

fEIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location of the	When to	Implementation
	Log		recommended	implement	measures	Implement the	Status
	Ref		Measures & Main	the		measures?	
			Concerns to address	measures?			
		The reinstatement shall be undertaken at the earliest		design	applicable	phases	
		possible stage during the construction phase of the project.		consultant/			
		Creation of 12.78ha of Ecological Area (EA) containing		Contractor/			
		reed marsh and marsh will be created at the southern		Operator			^
		portion of the LMC Loop, and a 50m width landscape buffer					
		area will be set up in between the EA and the development					
		area. Wetland creation concepts please refer to Figure					
		11.9zf and Chapter 12 Ecology Impact Assessment of this					
		EIA.					
		Native tree and shrub mix will be utilised for the creation of					^
		landscape buffer along northern edge of EA to support the					
		creation of avifauna habitat from ecologist perspectives as					
		well as enhance the aesthetic and landscape diversity					
		within the LMC Loop Development.					^
		Creation of minimum 11.72 Ha. of permanent					
		compensatory off-site wetland areas at Sam Po Shue and					
		Hoo Hok Wai. For the potential locations for off-site					
		wetlands please refer to Figure 11.9zf and 11.9zh, Chapter					
		2 Project Description and Chapter 12 Ecology Impact					
		Assessment of this EIA.					
	V-CP5-	Coordination with Concurrent Projects	Minimize landscape	Contractor	The whole	Construction	
	DP1/D	Coordinated implementation programme with concurrent	impacts		project area	phase	۸
	P2/DP3	projects to minimise impacts and where possible reduce			where		
		the period of disturbance.			applicable		

fEIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location of the	When to	Implementation
	Log		recommended	implement	measures	Implement the	Status
	Ref		Measures & Main	the		measures?	
			Concerns to address	measures?			
S11.6.5	V-CP1-	Preservation and Protection of Existing Trees (Good Site	Minimise visual impact	Detailed	The whole	Detailed design	۸
Table	DP3	<u>Practice)</u>		design	project area	and construction	
11.6.3		The proposed works should avoid disturbance to the		consultant /	where	phase	
		existing trees within and close to the works areas. The tree		Contractor	applicable		
		preservation proposals shall be coordinated with the layout					
		and design of the engineering and architectural works at					
		detailed design phase for further retention of individual					
		trees.					
		The preservation of existing tree shall provide instant					
		greening and screening effect for proposed works.					
	V-CP2-	Works Area and Temporary Works Areas (Good Site Practice)	Minimise visual impact	Contractor	The whole	Construction	۸
	DP3	The construction sequence and construction programme			project area	phase	
		shall be optimized in order to minimize the duration of			where		
		impact.			applicable		
		Construction site controls shall be enforced including the					۸
		storage of materials, the location and appearance of site					
		accommodation and site storage; and the careful design of					
		site lighting to prevent light spillage.					
		Hoarding designed with recessive colour shall be set up					۸
		around the construction site providing screening effect for					
		the construction works.					
		The site office or temporary above-ground structures shall					^
		be sited at less visual prominent locations.					

fEIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location of the	When to	Implementation
	Log		recommended	implement	measures	Implement the	Status
	Ref		Measures & Main	the		measures?	
			Concerns to address	measures?			
	V-CP3-	Advance Implementation of Mitigation Planting	Minimise visual impact	Detailed	The whole	Detailed design	N/A
	DP3	Replanting of existing / disturbed vegetation shall be	and advance mitigation	design	project area	and construction	
		undertaken at the earliest possible stage of the	planting for screening	consultant /	where	phases	
		construction phase of the project using predominantly	purpose.	Contractor	applicable		
		native plant species although ornamental species may be					
		used for roadside planting and amenity areas.					
	V-CP5-	Coordination with Concurrent Projects	Minimize visual impacts	Contractor	The whole	Construction	^
	DP3	Coordinated implementation programme with concurrent			project area	phase	
		projects to minimise impacts and where possible reduce			where		
		the period of disturbance.			applicable		
Ecology (Constructi	on Phase)					
S12.7	E1-DP1	Disturbance to Fish Ponds at HHW	On the disturbance to fish	Detailed	Fish ponds at	Detailed design,	
		Development set back a minimum of 23m from the edge	ponds at HHW	design	HHW and LMC	construction	N/A
		Meander.		consultant/		phase	
		Management of fish pond habitat to enhance ecological		Contractor			N/A
		value to twice existing value, in order to compensate for					
		disturbance to large waterbirds.					
		· Creation and establishment will occur prior to					
		commencement of substantive works associated with any					N/A
		element of the project for which fish pond compensation is					
		required.					
		Construction phase					
		Erection of a 3m high, dull green site boundary fence to					*

fEIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location of the	When to	Implementation
	Log		recommended	implement	measures	Implement the	Status
	Ref		Measures & Main	the		measures?	
			Concerns to address	measures?			
		minimise disturbance to wetland habitats caused by human					
		activity in LMC Loop.					
S12.7	E2-DP1	Construction run-off	Minimise the indirect	Contractor	Seawall,	During	
	/DP3	Temporary sewerage and drainage will be designed and	impact from the			construction	۸
		installed to collect wastewater and prevent it from entering	increasing suspended				
		nearby water bodies;	solids and pollutants in				
		Proper locations well away from nearby water bodies will	LMC Meander				۸
		be used for temporary storage of materials (i.e. equipment,					
		filling materials, chemicals and fuel) and temporary					
		stockpile of construction debris and spoil, and these will be					
		identified before commencement of works;					
		To prevent muddy water entering nearby water bodies,					*
		work sites close to nearby water bodies will be isolated,					
		using such items as sandbags or silt curtains with lead					
		edge at bottom and properly supported props. Other					
		protective measures will also be taken to ensure that no					
		pollution or siltation occurs to the water gathering grounds					
		of the work site;					
		If temporary access along a riverbed is unavoidable, this					^
		will be kept to the minimum in width and length. Temporary					
		river crossings will be supported on stilts above the river					
		bed;					
		Stockpiling of construction materials, if necessary, will be					۸
		properly covered and located away from nearby water					

fEIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location of the	When to	Implementation
	Log		recommended	implement	measures	Implement the	Status
	Ref		Measures & Main	the		measures?	
			Concerns to address	measures?			
		bodies;					
		Construction debris and spoil will be covered and/or					*
		properly disposed of as soon as possible to avoid being					
		washed into nearby water bodies;					
		Construction effluent, site run-off and sewage will be					
		properly collected and/or treated. Wastewater from any					^
		construction site will be minimised via the following in					
		descending order: reuse, recycling and treatment;					
		Proper locations for discharge outlets of wastewater					۸
		treatment facilities well away from sensitive receivers will					
		be identified (i.e. treated wastewater will not be discharged					
		into LMC Meander, natural streams, marsh, reedbed,					
		active or abandoned fish ponds);					
		Adequate lateral support will be erected where necessary					۸
		in order to prevent soil/mud from slipping into the					
		Ecological Area or LMC Meander;					
		Site boundary will be clearly marked and any works beyond					۸
		the boundary strictly prohibited;					
		Regular water monitoring and site audit will be carried out					۸
		at adequate points along LMC Meander, and at the outfalls					
		of the natural streams around LMC Loop. If the monitoring					
		and audit results show that pollution occurs, adequate					
		measures including temporarily cessation of works will be					
		considered.					

fEIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location of the	When to	Implementation
	Log		recommended	implement	measures	Implement the	Status
	Ref		Measures & Main	the		measures?	
			Concerns to address	measures?			
S12.7	E3-DP1	Pollutant Runoff to Downstream areas from Accidental Spillage	Minimize indirect impact	Contractor/	Area within	Construction	۸
	/DP2/D	Prepare an emergency contingency plan The plan will	from pollutant runoff to	Operator	project site near	phase and	
	P3	include, but not be limited to, the following:	downstream areas from		streams	operation phase	
		- Potential emergency situations;	accidental spillage				
		- Chemicals or hazardous materials used on-site					
		(and their location);					
		- Emergency response team;					
		- Emergency response procedures;					
		- List of emergency telephone hotlines;					
		- Locations and types of emergency response					
		equipment;					
		- Training plan and testing for effectiveness.					
S12.7	E4-DP1	Use opaque, non-transparent, non-reflective noise barriers	Minimize the mortality	Developer /	Area within	Detailed design,	٨
	/DP2/D	for all developments associated with the Project.	impacts on birds	Detailed	project site	construction and	
	P3	Design of buildings should not incorporate use of		design		operation	٨
		night-time lighting at or near top of buildings, highly		consultant/		phases	
		reflective materials should not be used where vegetation is		contractor/			
		adjacent and glass surfaces should not be angled upwards		operator			
		in a way that reflects the sky. Unnecessary lighting should					
		be eliminated. Appropriate glass and façade treatments					
		should be used where required to minimise impact.					
		Unnecessary lighting should be avoided.					
		These include the following:					
		Fritting, or the placement of ceramic lines or dots on glass,					٨

fEIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location of the	When to	Implementation
	Log		recommended	implement	measures	Implement the	Status
	Ref		Measures & Main	the		measures?	
			Concerns to address	measures?			
		has little effect on the human-perceived transparency of the					
		window but creates a visual barrier to birds outside. This					
		treatment also has the advantage of reducing 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 may be used only for smaller panes in					۸
		buildings with a limited amount of glass.					
		The use of glass that reflects UV light (primarily visible to					۸
		birds, but not to humans) acts to reduce collision.					
		Film and art treatment allow glass surfaces to be used a					۸
		medium of expression, often related to the nature and use					
		of the building, as well indicating to birds their					
		impenetrability.					۸
		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.					
		In terms of reducing night-time mortality impacts, eliminating					
		unnecessary lighting is one of the easiest methods, and has the					
		added advantage of saving energy and expense. Potential					
		impacts of nocturnal avian collision with buildings should be					
		minimised by not creating sky glow from the use of night-time					
		lighting at or near the top of buildings or other structures. In					

fEIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location of the	When to	Implementation
	Log		recommended	implement	measures	Implement the	Status
	Ref		Measures & Main	the		measures?	
			Concerns to address	measures?			
		addition to avoiding uplighting, light spillage should be minimised, while green and blue lights should be used where possible. As far as possible, lights should be controlled by motion sensors, and building operations should be managed in such a way as reduce or eliminate night lighting near windows. The potential advantages of removing unnecessary lighting in terms of reducing the carbon footprint of the LMC Loop development are obvious.					
S12.7	E5-DP1	Minimize loss of natural vegetation along LMC Meander,	Minimize impacts on	Detailed	Construction	Detailed design,	٨
	/DP2/D	and suitable replacement planting with possible installation	Eurasian Otter	design	site within the	construction	
	P3	of otter holts and the provision of potential feeding area		consultant/	project	phase	
		and spraint locations for otters in the stabilized bank		Contractor			
		subject to detailed design.					
		No significant change to velocity of water flow, water level					^
		or water quality.					
		No direct lighting on Meander.					۸
		3m high, dull green site boundary fence for all					*
		developments associated with the project.					
		Pre-construction surveys for otter holts or natal dens will be					۸
		conducted in LMC Loop before the commencement of					
		construction works. Work in the area of any otter holt found					
		to cease pending examination by experienced Ecologist. If					
		in use for breeding, works in the area will temporarily stop					
		until end of breeding activity.					
		No construction activities within 100m of LMC Meander					۸
		between one hour prior to sunset and one hour after					

fEIA Ref.	EM&A		Recommended Mitigation Measures	Objectives of the	Who to	Location of the	When to	Implementation
	Log			recommended	implement	measures	Implement the	Status
	Ref			Measures & Main	the		measures?	
				Concerns to address	measures?			
			sunrise.					۸
		•	Provision of compensatory reed marsh in the Ecological					
			Area in LMC Loop, including open water channels and					
			islands within the reed marsh, both of which features are					
			considered to be used by the species.					
S12.7	E8-DP2	•	Refer to E2 and E3	Prevent impacts on Rose	Contractor	Within project	Construction	۸
				Bitterling, small		site	phase	
				snakehead and				
				Somanniathelphus				
				zanklon				
S12.7	E10-DP	•	Preserve undisturbed, semi-natural habitat conditions of	Minimize impacts on flight	Developer /	Within project	Detailed design,	۸
	1		LMC Meander and adjacent areas of LMC Loop up to	line corridor from LMC	Detailed	site	construction and	
			approximately 150m in width in order to avoid disturbance	Loop development	design		operation	
			to core part of flight line corridor.		consultant/		phases	
		•	This area to comprise an Ecological Area largely		Contractor/			۸
			constituting reed marsh and a 50m wide buffer zone		Operator			
			densely planted with shrubs and trees. Small number of					
			low buildings (max 14mPD high, except the building height					
			of on-site STW is 15mPD high) allowed in inner 25m of this					
			area at a plot ratio of 0.1.					
		•	At Ha Wan Tsuen entry point for many birds to LMC Loop					۸
			area provide a wider Ecological Area to minimize					
			disturbance from nearby buildings.					
		•	Further minimisation of impact by maintaining a lower					N/A

fEIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location of the	When to	Implementation
	Log		recommended	implement	measures	Implement the	Status
	Ref		Measures & Main	the		measures?	
			Concerns to address	measures?			
		building height in areas adjacent to the buffer zone for the					
		EA. In addition, the sewage treatment works, which is					
		located near the point where many birds cross from the					
		Meander to HHW, should not exceed 15mPD.					
S12.7	E11-DP	Employ site boundary fence as long as possible. Use of	Minimize disturbance	Contractor	Within project	Construction	*
	1	movable barrier for more intense site formation activity.	impacts of mitigation		site	phase	
		Provision of fencing with 30cm gap between the existing	provisions				
		reed marsh and LMC Meander during the establishment					
		period of Ecological Area and the gap will be closed once					
		established.					
		Restrict work to period from 0900h to 1700h. All major					۸
		works along the edge of LMC Meander and in the					
		Ecological Area will be conducted in the wet season.					
S12.7	E12-DP	Minimal night-time lighting	Minimize impacts on LMC	Contractor/	All	Construction and	۸
	1/DP2/	No direct light on Meander	Meander	Operator		operation	۸
	DP3					phases	
S12.7	E13-DP	Construction limited to wet season between the hours of	Minimize impacts from	Contractor/	Pond habitat	Construction and	۸
	2	9am and 5pm.	the construction and	Operator	along alignment	operation	
		Use of opaque visual/noise barriers and planting of trees	operation disturbance		(mainly Ha Wan	phases	۸
		shrubs along length of road adjacent to fish ponds.	impacts		Tsuen Road)		
		Compensatory habitat management elsewhere to mitigate					۸
		wetland loss.					
S12.7	E13-DP	Use of viaduct alignment to minimize wetland loss.	Minmize wetland loss	Project	Within project	Detailed design	۸
	3	Compensatory wetland habitat elsewhere.		Proponent /	site	and	

fEIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location of the	When to	Implementation
	Log		recommended	implement	measures	Implement the	Status
	Ref		Measures & Main	the		measures?	
			Concerns to address	measures?			
				Detailed		construction	
				design		phases	
				consultant /			
				Contractor /			
S12.7	E16-DP	Provision of compensatory reed marsh in the Ecological	Protect Odonata	Project	Ecological area	EA established	۸
	1	Area will provide habitat suitable for Common Evening		Proponent/		prior to	
		Hawker.		Detailed		construction and	^
		Measures designed to protect other fauna and water		design		manage at all	
		quality will generally benefit odonata.		consultant/		phases	
				Contractor			
				Operator			
S12.7	E14-DP	· Replacement planting of native tree species relevant to	Minimize the ecological	Contractor	Woodland and	Construction	۸
	2	Deep Bay area and the area impacted. Planting to occur in	impacts		shrubland	phase	
		tandem with that required for woodland loss arising			habitat along Ha		
					Wan Tsuen		
					Road		
S12.7	E15-DP	Use noise/visual barriers to minimise disturbance.	Minimize impacts on flight	Contractor	Construction	Construction	۸
	2	Construction activities should not be carried out before	line corridor from		site from	phase	۸
		0900h or after 1700h in order to minimise disturbance to	Western Connection		Western		
		the flight line corridor (and to mammals).	Road		Connection		
					Road		
S12.7	E16-DP	Use of opaque visual/noise barriers and roadside planting	Minimize impacts on flight	Project	Construction	Detailed design,	۸
	2	of trees and shrubs to minimize disturbance impacts.	line corridor from	Proponent/	site from	construction and	
			Western Connection	Detailed	Western	operation	

fEIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location of the	When to	Implementation
	Log		recommended	implement	measures	Implement the	Status
	Ref		Measures & Main	the		measures?	
			Concerns to address	measures?			
			Road	design	Connection	phases	
				consultant/	Road		
				Contractor			
				Operator			
S12.9	EG2-D	All generic mitigation measures proposed in Tables 12.82a and	Avoid, minimize and	Project	All areas.	All phases	۸
	P3	12.82b in the EIA report.	mitigate overall ecological	proponent /			
			impact.	contractor /			
				detailed			
				design			
				consultant /			
				developer /			
				operator			
Fisheries	(Construc	tion Phase)					
S13.7	F4-	Reprovision of replacement Artificial Reefs(of the same	Mitigate water quality	Project	To be	Construction	N/A
		volume as the existing ARs inside Marine Exclusion Zone)	impacts on the existing	proponent	determined	phase or	
			ARs			operation	
						phase	
S11.7	F2	Reduce re-suspension of sediments	Minimise marine water	Contractor	Seawall	During	N/A
		Limit dredging and works fronts.	quality impacts			construction	N/A
		Good site practices					N/A
		Strict enforcement of no marine dumping					N/A
		Spill response plan					N/A
S13.7	F4-DP3	During the construction phase, a layer of sheet pile wall will be	Bund stability	Contractor	Fish ponds	Construction	N/A

fEIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location of the	When to	Implementation
	Log		recommended	implement	measures	Implement the	Status
	Ref		Measures & Main	the		measures?	
			Concerns to address	measures?			
		erected along the site boundary adjacent to fish ponds after commencement of site works. The sheet pile wall will be constructed by silent piling method (Press-in method) which induces minimal vibration. Therefore the stability of the fish pond bund will not be influenced by the construction of the sheet pile wall, subsequent construction works and the loading from the road during operational phase. In addition, the sheet pile wall will have grouting or a grout curtain to avoid water seepage from the fish pond to the excavation area. With these measures, significant impacts are not anticipated.				phase	
S13.7	F5-DP3	Temporary traffic arrangements will be instigated to maintain or provide alternative access to fish ponds during construction phase.	Prevent Blockage of Access Roads to Fish Ponds	Contractor	Fish ponds	Construction phase	^
S13.7	F6-DP3	Standard mitigation measures to control site runoff and other pollutants caused by construction activities and good site practices will be implemented during the construction phase of the Project. Excavated material and other inert construction wastes produced will be transferred to proper recipients (i.e. landfill) (see Waste Management Section). Sewage from the proposed development will be dealt with via a sewerage system and will not be discharged directly to surrounding water bodies.	Avoid water quality impact	Contractor	Fish ponds	Construction phase	^
S13.7	F7-DP3	 Dust Minimization During all excavation works, good site practice should be adopted to minimize impacts on fisheries. The below site practices should be adopted during this time. Any excavated or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with 	Dust minimization	Contractor	Fish ponds	Construction phase	۸

fEIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location of the	When to	Implementation
	Log		recommended	implement	measures	Implement the	Status
	Ref		Measures & Main	the		measures?	
			Concerns to address	measures?			
		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;					
		 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;					
		 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 by installing well points or similar					
		means;					
		 Supply of suitable clean backfill material after 					
		excavation, if required;					
		Vehicles containing any excavated materials should be					
		suitably covered to limit potential dust emissions or					
		contaminated run-off, and truck bodies and tailgates should					

fEIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location of the	When to	Implementation
	Log		recommended	implement	measures	Implement the	Status
	Ref		Measures & Main	the		measures?	
			Concerns to address	measures?			
		be sealed to prevent any discharge during transport or during wet season; • Speed control for the trucks carrying contaminated materials should be enforced; and • Vehicle wheel washing facilities at the site's exit points					
		should be established and used.					
S13.7	F8-DP3	Contingency plan The contractor should prepare an emergency contingency plan for actions to be taken if significant impacts, such as accidental spillage of chemicals, water seepage from fish ponds, damaged/destabilized pond bunds, pond water contamination by site runoff, on fish ponds occur. The contractor should submit the emergency contingency plan dealing with, but not limited to, the aforementioned potential impacts to the engineer for review, comment and approval. The fish pond operators will also be consulted for the details of the contingency plan, which will also be submitted to AFCD for review and comment. The plan should include, but not limited to, the following: • Potential emergency situations;	Deal with any accidental spillage event	Contractor / Operator	Fish ponds	Construction and operational phases	^
		 Chemicals or hazardous materials used on-site (and their location); Emergency response team; 					
		Emergency response procedures; List of emergency telephone hotlines;					
		Locations and types of emergency response equipment;Training plan and testing for effectiveness.					

fEIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objectives of the recommended Measures & Main Concerns to address	Who to implement the measures?	Location of the measures	When to Implement the measures?	Implementation Status
S15	F1-DP3	Contingency plan The contractor should have effective communication with Food and Environmental Hygiene Department (FEHD) / Centre of Food Safety (CFS), on food surveillance and food incidents. Food Surveillance Programme (http://www.cfs.gov.hk/english/programme/programme_fs/programme_fs.html). is undertaken by CFS to inspect food safety in Hong Kong, with a three-tier surveillance strategy (consisting of routine food surveillance, targeted food surveillance and seasonal food surveillance). Under this programme, aquatic products (including pond fish) at import, wholesale and retail levels are sampled for microbiological (i.e. bacteria and viruses), chemical (i.e. natural toxins, food additives and contaminants) and radiation testings. All food safety surveillance results of by a monthly "Food Safety Report" in press releases and also presented in CFS website. If pond fish samples do not comply with food safety standards and they are verified to be from fish ponds of concerned under this study through "food tracing", fish selling shall be stopped as instructed by CFS.	Minimize significant impacts on fish ponds	Contractor	Fish pond within project site	Construction phase	N/A
S15	F2-DP3	 Dust Minimization During all excavation works, good site practice should be adopted to minimize the release of TSP, impact of land contamination and the associated food safety implications. The below site practices should be adopted during excavation works. Any excavated or stockpile of dusty material should be 	Dust minimization	Contractor	Fish pond within project site	Construction phase	^

fEIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location of the	When to	Implementation
	Log		recommended	implement	measures	Implement the	Status
	Ref		Measures & Main	the		measures?	
			Concerns to address	measures?			
		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;					
		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;					
		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 by installing well points or similar					
		means;					
		Supply of suitable clean backfill material after excavation, if					
		required;					
		· Vehicles containing any excavated materials should be					
		suitably covered to limit potential dust emissions or					

fEIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location of the	When to	Implementation
	Log		recommended	implement	measures	Implement the	Status
	Ref		Measures & Main	the		measures?	
			Concerns to address	measures?			
		contaminated 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 contaminated					
		materials should be enforced; and					
		Vehicle wheel washing facilities at the site's exit points					
		should be established and used.					

Remarks: ^

- Compliance of mitigation measure
- * Recommendation was made during site audit but improved/rectified by the contractor
- # Recommendation was made during site audit but not yet improved/rectified by the contractor.
- N/A Not Applicable at this stage as no such site activities were conducted in the reporting period (e.g. concrete batching plan, barging point, seawall dredging and filling, bored piling, landscaping works etc)

Contract No. YL/2020/01 - Development of Lok Ma Chau

Loop: Main Works Package 1 – Contract 1 Site Formation

and Infrastructure Works inside Lok Ma Chau Loop and

Western Connection Road Phase 1

Ref	Location/ Working Period	Anticipated Major Impacts	Recommended Mitigation Measures	Photo Records (Partial)
EIA S3.8	All site		• 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;	

Ref	Location/ Working Period	Anticipated Major Impacts	Recommended Mitigation Measures	Photo Records (Partial)
EIA S3.8	All site	Dust impact	 A stockpile of dusty material should not be extended 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;	

Ref	Location/ Working Period	Anticipated Major Impacts	Recommended Mitigation Measures	Photo Records (Partial)
EIA S3.8	All site area	Dust impact	• 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;	
			• 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;	

Working Period: 1st to 31st October 2024

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.



Ref	Location/ Working Period	Anticipated Major Impacts	Recommended Mitigation Measures	Photo Records (Partial)
EIA S4.8	All site	Noise impact	 Mobile plant should be sited as far away from NSRs as possible and practicable; All generator used onsite are Quality Powered Mechanical Equipment (QPME) registered with EPD. 	第5号 Type 製造像 / 除子 Manufacture / Trade Name (GTL)
			 Install movable noise barriers and full enclosure, screen the noisy plants including air compressor and generator. 	隔音屏障隔音

Ref	Location/ Working	Anticipated Major Impacts	Recommended Mitigation Measures	Photo Records (Partial)
	Period			
EIA S5.7	All site area	Water Pollution Control	• Update and implementation of Stormwater Pollution Control Plan.	
			• At the start of site establishment, perimeter cut-off drains to direct off- site water around the site should be constructed with internal drainage works and erosion and sedimentation control facilities implemented. Channels (both temporary and permanent drainage pipes and culverts), earth bunds or sand bag barriers should be provided on site to direct stormwater to silt removal facilities. The design of the temporary on-site drainage system will be undertaken by the contractor prior to the commencement of construction.	Description Followings Priority Market to Monthly Priority Market to Monthly Priority Market to Monthly Priority Market to Monthly Rectify Monthly Mon

Ref	Location/	Anticipated	Recommended Mitigation Measures	Photo Records (Partial)
	Working	Major Impacts		
	Period			
			• 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 8 m3 capacities, are	
			recommended as a general mitigation measure which can be used for	V
			settling surface runoff prior to disposal. The system capacity shall be	
			flexible and able to handle multiple inputs from a variety of sources and	
			suited to applications where the influent is pumped.	
				AT 3 NO.

Ref	Location/	Anticipated	Recommended Mitigation Measures	Photo Records (Partial)
	Working	Major Impacts		
	Period			
			• 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.	
			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.	
			Portable chemical toilets and sewage holding tanks should be provided	
			for handling the construction sewage generated by the workforce. A	
			licensed contractor should be employed to provide appropriate and	
			adequate portable toilets to cater 0.15m3/day/employed populations and	
			be responsible for appropriate disposal and maintenance.	

	Location/	Anticipated Major Impacts	Recommended Mitigation Measures	Photo Records (Partial)
Pe	Period			
			• Notices should be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the nearby environment during the construction phase of the Project. Regular environmental audit on the construction site should be conducted in order to provide an effective control of any malpractices and achieve continual improvement of environmental performance on site.	Do not scharge any sewage of wastewater into the nearby environment

	cation/ orking	Anticipated Major Impacts	Recommended Mitigation Measures	Photo Records (Partial)
EIA All are:	ll site ea		• Segregate and store different types of waste in different containers, skip or stockpiles to enhance reuse or recycling of materials and their proper disposal; • Proper storage and site practices to minimize the potential for damage and contamination of construction materials;	TARK PAPE

Ref	Location/	Anticipated	Recommended Mitigation Measures	Photo Records (Partial)
	Working	Major Impacts		
	Period			
			 Provide training to workers on the importance of appropriate waste management procedures, including waste reduction, reuse and recycling. 	

Ref		Anticipated	December and Mitigation Massaures	Photo Pagarda (Partial)
Kei	Location/	Anticipated	Recommended Mitigation Measures	Photo Records (Partial)
	Working	Major Impacts		
	Period			
			• Prepare Waste Management Plan and submit to the Engineer for	Contract No. "YL/202001" – Development of Lok Ma Chea Loop, Main Works evaluate Package 1 – Contract 15 like Formation and Infrastructure Works inside Lok Ma Chea Loop and Western Connection Road Phase 1
			approval	Contract No: YL/2020/01
				Project Title: Development of Lok Ma Chau Loop: Main Works Package 1 — Contract 1 Site Formation and Infrastructure Works inside Lok Ma Chau Loop and Western Connection Road Phase 1
				中国线键 CRCC - Kwan Lee - Paul Y. JV
				Waste Management Plan (According to PS Clause 25.20A (7))
			• Proper storage and sorting of excavated inert materials to maximize on	
			site reuse for backfilling	E STATE OF THE STA

W	ocation/ orking	Anticipated Major Impacts	Recommended Mitigation Measures	Photo Records (Partial)
			General refuse should be stored in enclosed bins separately from construction and chemical wastes. Recycling bins should also be placed to encourage recycling.	THAT APE

Ref	Location/	Anticipated	Recommended Mitigation Measures	Photo Records (Partial)
	Working	Major Impacts		
	Period			
			• 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	11 a 1888 1885 11/01
			chemical waste contractor. Chemical wastes (e.g. spent lubricant oil)	化學療物 NEMICAL WASTE
			should be recycled at an appropriate facility as far as possible, while the	HEMICAL WASTE
			chemical waste that cannot be recycled should be disposed of at either the	
			Chemical Waste Treatment Centre, or another licensed facility, in	(Charles and Charles)
			accordance with the Waste Disposal (Chemical Waste) (General)	
			Regulation.	

Ref	Location/	Anticipated	Recommended Mitigation Measures	Photo Records (Partial)
	Working	Major Impacts		
	Period			
EIA	Constructi on site	Ecology	Installing 3m high olive-green fence around construction areas to allow	
12.7	within the		or deter different animal passages where appropriate;	NIII NIII
EP	project			
2.7				
	Pond		Carrying out outside dry-season (from November to February next year),	
	habitat		the construction works associated with the site formation in the Ecological	
	along		Area, stabilization of the bank of the old Shenzhen River meander, to	
	alignment		minimise disturbances to migratory birds/water birds;	
	(mainly			
	Ha Wan			
	Tsuen			
	Road)			

Ref	Location/	Anticipated	Recommended Mitigation Measures	Photo Records (Partial)
	Working	Major Impacts		
	Period			
	Old Shenzhen River meander and other identified important ecological ly sensitive areas,		Using powered mechanical equipment for construction works only during the period 9am to 5pm at and near the old Shenzhen River meander and other identified important ecologically sensitive areas, if any;	根據環境許可證EP-477/2013/B 規定,非限制時段的工作時間:

Contract No. YL/2020/02 – Development of Lok Ma Chau
Loop: Main Works Package 1 – Contract 2 Western
Connection Road Phase 2, Connection Roads to Fanling /
San Tin Highway and Direct Road Link Phase 1

Ref*	Location/W orking Period	Anticipated Major Impacts	Recommended Mitigation Measures	Photo Records (Partial)
EIA S3.8	All site area		 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; 	

Proactive Environmental Protection Proforma

Ref*	Location/	Anticipated	Recommended Mitigation Measures	Photo Records (Partial)
	Working	Major Impacts		
	Period			
EIA	All site	Dust impact	 A stockpile of dusty material should not be extend beyond the pedestrian barriers, fencing or traffic 	
S3.8	area		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;	

Proactive Environmental Protection Proforma

• 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;



 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;



Proactive	Environmen	<u>ntal Protection l</u>	<u>Proforma</u>

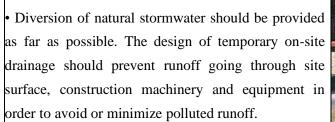
Proactive	Environmental	Protection Proforma	
		Where practicable, vehicle washing facilities with	
		high pressure water jet should be provided at every	
		discernible or designated vehicle exit point. The area	
		where vehicle washing takes place and the road section	
		between the washing facilities and the exit point should	-
		be paved with concrete, bituminous materials or	6
		hardcores.	

Proactive Environmental Protection Proforma

Ref*	Location/	Anticipated	Recommended Mitigation Measures	Photo Records (Partial)
	Working	Major Impacts		
	Period			
EIA	All site	Noise impact	 Mobile plant should be sited as far away from NSRs as possible and practicable; 	
S4.8	area		as possible and practicable,	
			• Install movable noise barriers and full enclosure, screen the noisy plants including air compressor and	
			generator.	

Connecti	on Roads to l	Fanling/ San Tin	Highway and Direct Road Link Phase I	
Proactive	<u>Environme</u>	ntal Protection P	<u>roforma</u>	
EIA	All site area		• At the start of site establishment, perimeter cut-off	
S5.7		Control	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 rupoff going through site	







Proactive Environmental Protection Proforma

• Sedimentation tanks with sufficient capacity, constructed from pre-formed individual cells of approximately 6 to 8 m3 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 inputs from a variety of sources and suited to applications where the influent is pumped.



• 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.



Proactive Environmental Protection Proforma

• 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.



• Portable chemical toilets and sewage holding tanks should be provided for handling the construction sewage generated by the workforce. A licensed contractor should be employed to provide appropriate and adequate portable toilets to cater 0.15m3/day/employed populations and be responsible for appropriate disposal and maintenance.



Proactive Environmental Protection Proforma Use of mechanised equipment only during the period 9am to 5pm • Notices should be posted at conspicuous locations to 盡量減少施工交通,減少對的生動物的干擾 remind the workers not to discharge any sewage or Non-essential vehicles are prohibited from entering for minimize the construction traffic to reduce wastewater into the nearby environment during the disturbance to wildlife construction phase of the Project. Regular environmental audit on the construction site should be conducted in order to provide an effective control of any malpractices and achieve continual improvement of environmental performance on site.

Proactive Environmental Protection Proforma

Ref*	Location/ Working Period	Anticipated Major Impacts	Recommended Mitigation Measures	Photo Records (Partial)
EIA S7.6	All site area		• Segregate and store different types of waste in different containers, skip or stockpiles to enhance reuse or recycling of materials and their proper disposal;	
			• Proper storage and site practices to minimize the potential for damage and contamination of construction materials;	

Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling/ San Tin Highway and Direct Road Link Phase 1

Working Period: 1st to 31th Oct 2024

Proactive Environmental Protection Proforma Provide training to workers on the importance of appropriate waste management procedures, including waste reduction, reuse and recycling. RB 中國路標工程有限責任公司 YL/2020/02 Project Title: Development of Lok Ma Chau Loop: Main Works Package 1 - Contract 2, Western Connection Road Phase 2, Connection Roads in Fanling / San Tin Highway and Direct Prepare Waste Management Plan and submit to the Engineer for approval Waste Management Plan CSF/WMP/01 19 April 2022

Page 1 of 50

Working Period: 1st to 31th Oct 2024

Proactive Environmental Protection Proforma

 Proper storage and sorting of excavated inert materials to maximize on site reuse for backfilling



• General refuse should be stored in enclosed bins separately from construction and chemical wastes. Recycling bins should also be placed to encourage recycling.



Proactive Environmental Protection Proforma

• 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.



• 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 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.



Proactive Environmental Protection Proforma

Location/ Working	Anticipated Major Impacts	Recommended Mitigation Measures	Photo Records (Partial)
Period	•		
All site area		barriers for all developments associated with the	
		• On-site compensate the same area of the occupied	
	Location/ Working Period All site	Working Period All site area Ecology	Location/ Working Period Anticipated Major Impacts Recommended Mitigation Measures All site Ecology • Use opaque, non-transparent, non-reflective noise

Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling/ San Tin Highway and Direct Road Link Phase 1

Proactive Environmental Protection Proforma

Proactive	<u>Environme</u>	ntal Protection P	<u>roforma</u>
ERR	STEMDC	Ecology	Installation of 3m-high olive green fence site
S4.2.2			hoarding around construction areas to reduce
			disturbance and such installation should allow passage
			of animal
			• Use of mechanized equipment only during the
			period 9am to 5pm 此地盤僅可在上午9點至下午5點的
			使用機械設備 Use of mechanised equipment only during the period 9am to 5pm
			計長以及2月前前2年 d. inc 2
			Non-essential vehicles are profibited from entering for minimize the construction that
			disturbance to wildlife

Working Period: 1st to 31th Oct 2024

Working Period: 1st to 31th Oct 2024

Proactive Environmental Protection Proforma

• Well-defined and fenced work area to prevent intentional or accidental encroachment or trespassing to other part of the mitigation wetland for access, parking, operation of plants/machineries, or stockpiling of construction material/waste nearby



Wherever feasible, noise curtain should be installed around noisy plants machineries to minimize the potential audibled disturbance to wildlife in the adjacent habitats



Working Period: 1st to 31th Oct 2024

Proactive Environmental Protection Proforma

Minimize the construction traffic within the mitigation wetland as far as practicable



Measures to avoid any spillage or discharge of untreated runoff from the site to other part of the mitigation wetland should be implemented, including but not limited to provision of sandbags barrier and perimeter channels at site boundaries



Working Period: 1st to 31th Oct 2024

Wheel washing bay and mobile toilet should be positioned outside and as far as practicable from the boundary of the mitigation wetland

Water extraction from the mitigation pond or the shallow open channel should be strictly prohibited

Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling/ San Tin Highway and Direct Road Link Phase 1

Proactive Environmental Protection Proforma

Proacus	<u>ve Environmei</u>	ntal Protection Pi	<u>otorma</u>	
			Any stockpiling should be away from the mitigation pond	
			No chemical should be stockpiled on-site unless absolutely necessary and away from the mitigation pond	此地盤僅可在上午 9 點至下午 5 點提問 使用機械設備 Use of mechanised equipment only during the period 9 am to 5 pm 非必要車輛禁止進入 念量減少施工交通,減少對野生動物的干擾 Non-essential vehicles are prohibited from entering for minimize the construction traffic to reduce disturbance to wildlife

Working Period: 1st to 31th Oct 2024

Proactive Environmental Protection Proforma

On-site maintenance of plant/machineries/vehicle should be strictly forbidden until absolutely necessary and away from the mitigation pond as far as practicable



Waste and refuse should be stored or dumped in appropriate receptacles, and away from the mitigation pond



Proactive Environmental Protection Proforma

Prohibit feeding of wild animals, and any attractant to wild boar, especially fruits and food remains, should be properly stored in appropriate receptacles, and disposed daily



All light sources installed within or in the boundary of the work Site should not be directed towards the mitigation pond, and any directional lighting should be pointing inwards, downwards or shielded so that little or no light is emitted above the horizontal plane unless absolutely



Working Period: 1st to 31th Oct 2024

Proactive Environmental Protection Proforma

Do not provide excessive lighting along the boundary of the work site and keep the intensity and duration of lighting to a strictly necessary minimum as far as practicable



Proper upkeep of the drainage pipe installed underneath the work area to avoid any clogging



Contract No. YL/2020/02

Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling/ San Tin Highway and Direct Road Link Phase 1

Proactive Environmental Protection Proforma

ERR	STEMDC	Ecology	• water quality monitoring should be carried out by
S6.1.2			the Contractor during the construction of the pier
			DRL-P08, and covers the northern and southern
			parts of the mitigation pond - where the former
			could act as reference during the evaluation. By
			making reference to the water monitoring
			program of the Hong Kong Wetland Park for
			constructed wetlands, the monitoring parameters
			should include water temperature, turbidity,
			biological oxygen demand, nitrogenous and
			phosphorus compounds, salinity, pH and
			dissolved oxygen.



Working Period: 1st to 31th Oct 2024

Water quality monitoring in Oct had been conducted on 9 Oct 2024.

Contract No. YL/2021/01 – Development of Lok Ma Chau
Loop: Main Works Package 1 – Contract 3 Direct Road
Link Phase 2

Ref*	Location/ Working Period	Anticipated Major Impacts	Recommended Mitigation Measures	Photo Records (Partial)
EIA S3.8	All site area	Dust impact	• 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;	SIFT

Ref*	Location/ Working Period	Anticipated Major Impacts	Recommended Mitigation Measures	Photo Records (Partial)
EIA S3.8	All site area	Dust impact	 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;	

• 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; 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;

	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 facilities and the road section between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores.
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Ref*	Location/ Working Period	Anticipated Major Impacts	Recommended Mitigation Measures	Photo Records (Partial)
EIA S4.8	All site area	Noise impact	Mobile plant should be sited as far away from NSRs as possible and practicable;	ZANS
			Install movable noise barriers and full enclosure, screen the noisy plants including air compressor and generator.	

Working Period: 1st to 31st October 2024

• An acoustic canvas had been deployed along the site boundary facing the public. Noise Barrier • All generator used onsite are Quality Powered Mechanical Equipment (QPME) registered with EPD. 103 ^{分見(A)}

EIA	All site area	Water Pollution	• Update and implementation of Stormwater Pollution	Development of Loh Ms Chau Loos Main Works Package 1- Contract 3 - Order Mou Main Works Package 1- Contract 3 - Order Mou Main Main Exp
S5.7		Control	Control Plan.	CONTRACTOR'S SUBMISSION FORM
33.7			Control Fluit.	To : AECOM Attention : Mr. Roger Man (Project Manager's delegate)
				Submission Ref. No*. : CSF/MSE/00002AE AECOM Ref. No. :
				Date of Submission : 9 October 2024 Title of Submission : Environmental Management Plan (Rev. 31)
				Proposed Location of Works : -
				Specification/Drawing Reference: PS Clause D20(S) Description of Content:
				According to Pf. Classo D30(5), we would like to submit the Environmental Management Plan (Rec.31) for your approval.
				Attachments : Environmental Managamant Plan (Rev.31) Realy required by : 21 deci
				Purpose of Submission :
				For Approval Id For Comment For Information For Record For Action
				Prepared by: Reviewed by: Approved & submitted by: The Environmental Officer HSE Manager Site Agent Site Agent
				Title Tino Law Jan Chin Desmond Tang
				Therefore Advances Dec. **Therefore Advances** Dec. **Advances** Dec. **Advances
			• 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 equipment in order to avoid or minimize polluted runoff.



• Sedimentation tanks with sufficient capacity, constructed from pre-formed individual cells of approximately 6 to 8 m3 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 inputs from a variety of sources and suited to applications where the influent is pumped.



• 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.



• 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.



• Portable chemical toilets and sewage holding tanks should be provided for handling the construction sewage generated by the workforce. A licensed contractor should be employed to provide appropriate and adequate portable toilets to cater 0.15m3/day/employed populations and be responsible for appropriate disposal and maintenance.



• Notices should be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the nearby environment during the construction phase of the Project. Regular environmental audit on the construction site should be conducted in order to provide an effective control of any malpractices and achieve continual improvement of environmental performance on site.



	•An additional water pump had been set up and the concerned outlet have been sealed up with concrete	
--	--	--

Ref*	Location/ Working Period	Anticipated Major Impacts	Recommended Mitigation Measures	Photo Records (Partial)
EIA S7.6	All site area		Segregate and store different types of waste in different containers, skip or stockpiles to enhance reuse or recycling of materials and their proper disposal;	STATE AFTER STATE OF THE STATE
			 Proper storage and site practices to minimize the potential for damage and contamination of construction materials; 	

Working Period: 1st to 31st October 2024

Provide training to workers on the importance of appropriate waste management procedures, including waste reduction, reuse and recycling. Prepare Waste Management Plan and submit to the CONTRACTOR'S SURMISSION FORM Engineer for approval AECOM Ref. No. Date of Submission

 Proper storage and sorting of excavated inert materials to maximize on site reuse for backfilling



• 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.

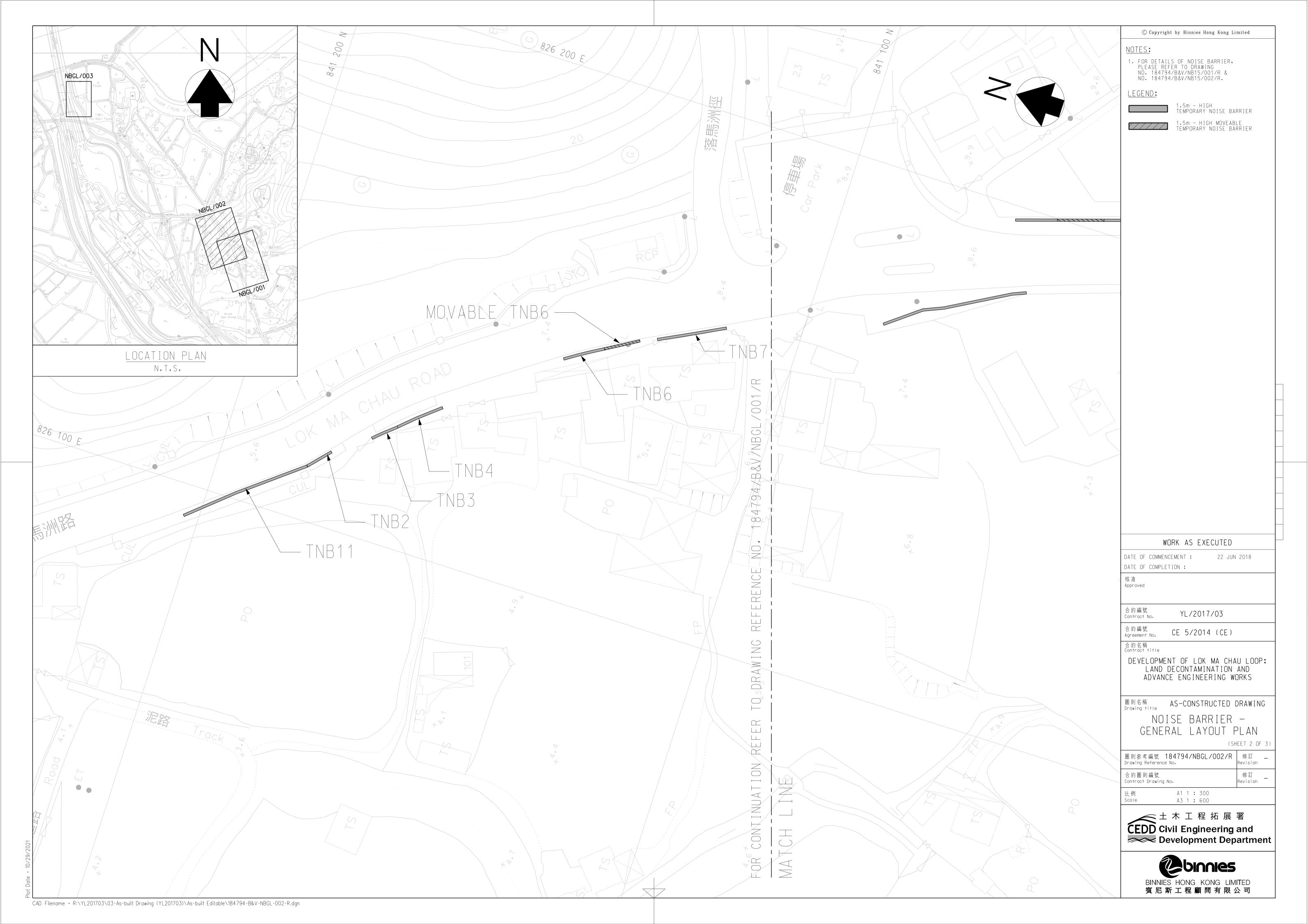


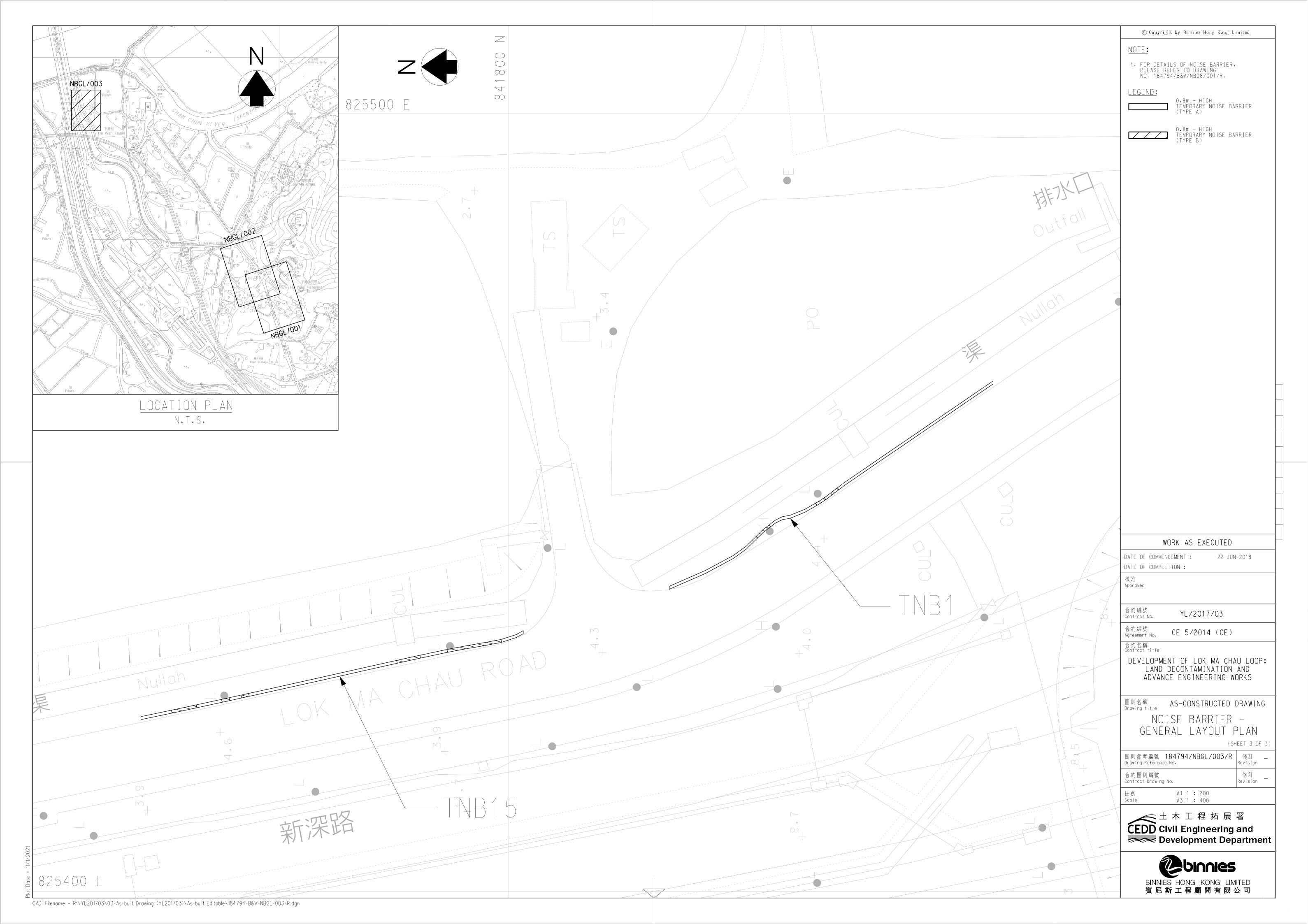
• If chemical wastes are produced at the construction site, the Contractors should register with EPD as chemical waste producers. Chemical wastes should be stored in appropriate containers and collected by a licensed chemical waste contractor. Chemical wastes (e.g. spent lubricant oil) should be recycled 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.



APPENDIX N TEMPORARY NOISE BARRIERS







YL/2017/03 Development of Lok Ma Chau Loop – Land Decontamination and Advance Engineering Works Record Photographs for Temporary Noise Barriers at Lok Ma Chau Road

TNB ID	Photo
TNB1	TNB1
TNB2	TAB II
TNB11	19/07/2021
TNB3	TNB4
TNB4	

YL/2017/03 Development of Lok Ma Chau Loop – Land Decontamination and Advance Engineering Works Record Photographs for Temporary Noise Barriers at Lok Ma Chau Road

TNB ID	Photo
TNB6	TNB6
TNB7	
TNB8	29/07/2021

YL/2017/03

Development of Lok Ma Chau Loop – Land Decontamination and Advance Engineering Works
Record Photographs for Temporary Noise Barriers at Lok Ma Chau Road

TNB ID	Photo
TNB9	TNB9
TNB10	29/4/2021
TNB13	29/4/2021

YL/2017/03

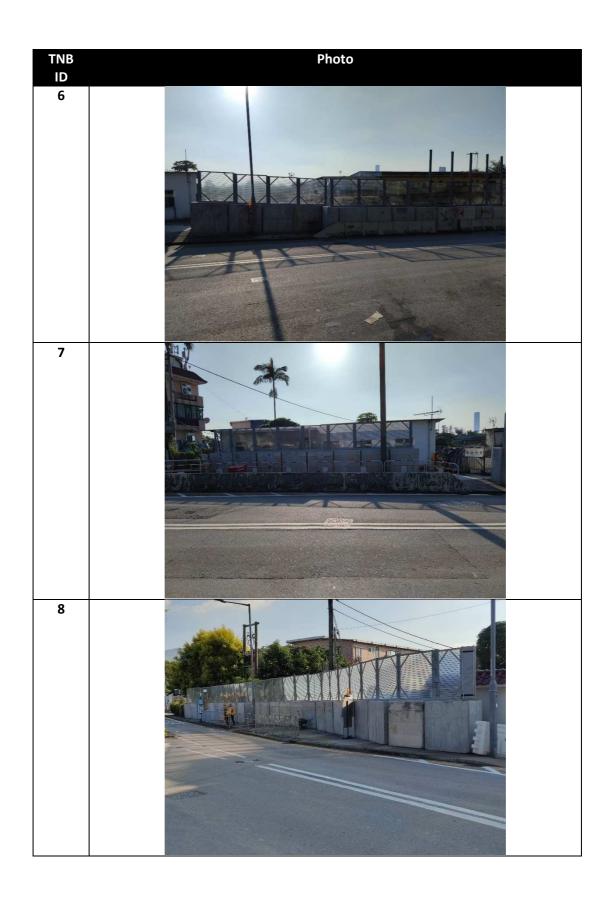
Development of Lok Ma Chau Loop – Land Decontamination and Advance Engineering Works
Record Photographs for Temporary Noise Barriers at Lok Ma Chau Road



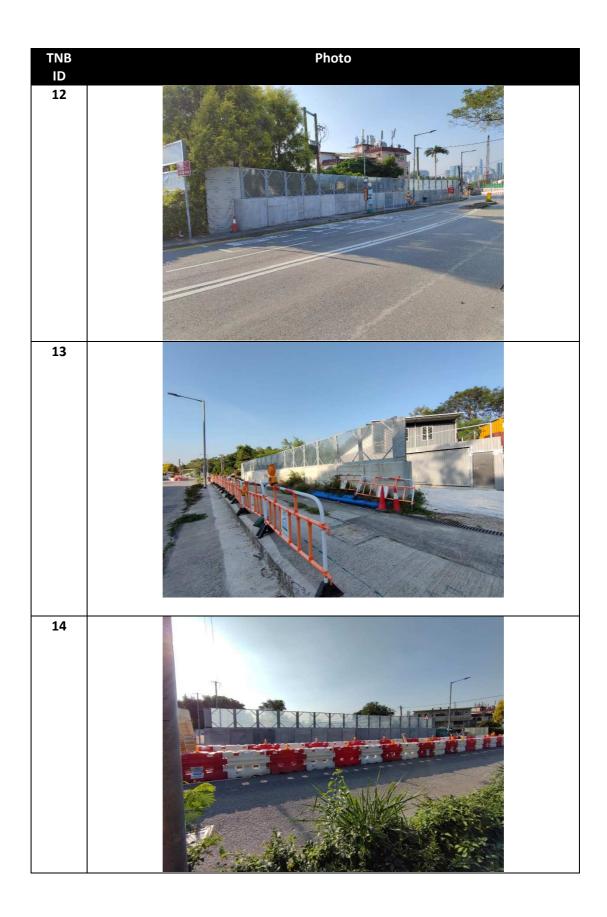
YL/2020/02 – Western Connection Road Phase 2, Connection Roads to Fanling/San Tin Highway and Direct Road Link Phase 1

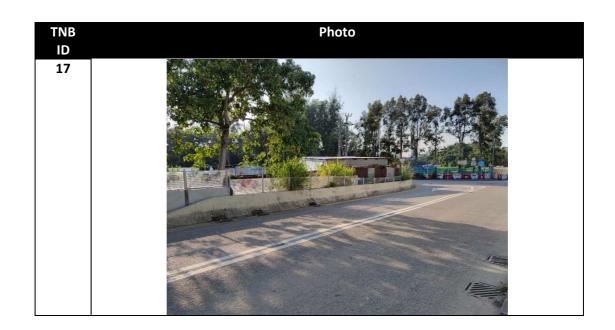
Record Photographs for Temporary Noise Barriers at Lok Ma Chau Road





TNB ID	Photo	Construction Status
9		Completed
10		Completed
11		Completed





APPENDIX O WASTE GENERATION IN THE REPORTING MONTH

Contract No. YL/2020/01 - Development of Lok Ma Chau

Loop: Main Works Package 1 – Contract 1 Site Formation

and Infrastructure Works inside Lok Ma Chau Loop and

Western Connection Road Phase 1

Monthly Summary Waste Flow Table for 2024 (year)

Name of Person completing the record:

Developmen	t of Lok Ma Chau Lo	op : Main Works	Package 1 – Cor	tract 1 Site Form	ation and Infrastru	de Lok Ma Chau Loop and Western Connection Contract No.: YL/2020/0					2020/01	
		Actual Quantit	ies of Inert C&D	Materials Gene	erated Monthly		Actual Quantities of C&D Wastes Generated Monthly					
Month	Total Quantity Generated (a)= (b)+(c)+(d)+(e)	Hard Rock and Large Broken Concrete (b)	*Reused in the Contract (c)	Reused in other Projects (d)	Disposed as Public Fill (e)	Imported Fill	Metals	Paper/ cardboard packaging/	Plastics	Yard Waste	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 '000kg)	(in '000m³)
Jan-24	0.640	0.000	0.000	0.000	0.640	0.244	0.000	0.000	0.000	0.000	0.000	0.246
Feb-24	2.816	0.625	0.000	0.000	2.191	0.787	0.000	0.157	0.000	0.000	0.000	0.153
Mar-24	7.378	4.644	0.000	0.000	2.734	0.000	0.003	0.012	0.015	0.000	0.000	0.229
Apr-24	1.369	0.287	0.000	0.000	1.081	0.000	0.000	0.000	0.000	0.000	0.000	0.100
May-24	1.633	0.000	0.000	0.000	1.633	0.000	0.003	0.000	0.011	0.000	0.000	0.077
Jun-24	0.908	0.000	0.000	0.000	0.908	0.000	0.000	0.000	0.000	0.000	0.000	0.049
Sub-total	14.744	5.556	0.000	0.000	9.188	1.031	0.006	0.169	0.026	0.000	0.000	0.853
Jul-24	1.204	0.000	0.000	0.000	1.204	0.000	0.000	0.000	0.000	0.000	0.000	0.095
Aug-24	11.287	0.000	0.000	0.000	11.287	0.000	0.000	0.000	0.000	0.000	0.000	0.069
Sep-24	5.501	0.000	0.000	0.000	5.501	0.000	0.000	0.000	0.000	0.000	0.000	0.068
Oct-24	10.397	0.000	0.000	0.000	10.397	0.000	0.007	0.046	0.013	0.000	0.000	0.715
Nov-24												
Dec-24												
Total	43.134	5.556	0.000	0.000	37.578	1.031	0.013	0.215	0.039	0.000	0.000	1.799

Remarks:

- 1.Assume the density of soil fill=2.0 tonnes/m3
- 2. Assume the density of rock and broken concrete=2.5 tonnes/m3
- 3. Assume the density of refuse = 1.5 tonnes/m3
- 4. The inert C&D material except slurry and bentonite are disposed at Tuen Mun 38
- 5. The slurry and bentonite are disposed at Tseung Kuwn O 137.
- 6. The non-inert C&D wastes, including general refuse are disposed at NENT

Contract No. YL/2020/02 – Development of Lok Ma Chau
Loop: Main Works Package 1 – Contract 2 Western
Connection Road Phase 2, Connection Roads to Fanling /
San Tin Highway and Direct Road Link Phase 1

Monthly Summary Waste Flow Table for 2024 (year)

Name of Person completing the record: Celia Yung (EO)

Project: Development of Lok Ma Chau Loop: Main Works Package 1- Contract 2, Western Connection Road Phase 2,

	Connection Roa	ads in Fanling /	San Tin Highw	ay and Direct R	Road Link Phase	1	Contract No.: YL/2020/02					
		Actual Quantit	ies of Inert C&	D Materials Gei	nerated Monthly		Actual Quantities of C&D Wastes Generated Monthly					
Month	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)	$(in '000 m^3)$	
Jan	1.863	0.000	0.000	0.000	1.863	1.332	0.000	0.000	0.000	0.000	0.274	
Feb	0.702	0.000	0.000	0.000	0.702	0.419	0.000	0.000	0.000	0.000	0.226	
Mar	2.750	0.000	0.000	0.000	2.750	1.530	0.000	0.000	0.000	0.000	0.194	
Apr	1.647	0.000	0.000	0.000	1.647	1.824	0.000	0.000	0.000	0.000	0.397	
May	1.962	0.000	0.000	0.000	1.962	0.990	0.000	0.000	0.000	0.000	0.302	
Jun	3.663	0.000	0.000	0.000	3.663	1.290	0.000	0.000	0.000	0.000	0.215	
Sub-total	12.587	0.000	0.000	0.000	12.587	7.385	0.000	0.000	0.000	0.000	1.609	
Jul	1.211	0.000	0.000	0.000	1.211	0.522	0.000	0.000	0.000	0.000	0.232	
Aug	1.949	0.000	0.000	0.000	1.949	0.162	0.000	0.000	0.000	0.000	0.326	
Sep	1.251	0.000	0.000	0.000	1.251	0.420	0.000	0.057	0.000	0.000	0.267	
Oct	1.611	0.000	0.000	0.000	1.611	0.498	0.001	0.037	0.001	0.000	0.440	
Nov	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Dec	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Total	18.608	0.000	0.000	0.000	18.608	8.987	0.001	0.094	0.001	0.000	2.873	

Note:

- For non-inert portion of C&D material, assume the density of 1 m³ general refuse is equal to 200 kg.
- For inert portion of C&D material, assume 6 m³ per each full-filled dump truck.
- 3. All values are round off to the third decimal places.

Contract No. YL/2021/01 – Development of Lok Ma Chau
Loop: Main Works Package 1 – Contract 3 Direct Road
Link Phase 2

Monthly Summary Waste Flow Table for 2024 (year)

Name of Person completing the record: <u>Tino Law</u>

Development of Lok Ma Chau Loop : Main Works Package 1 – Contract 3

Contract No.: YL/2021/01

Actual Quantities of Inert C&D Materials Generated Monthly Actual Quantities of C&D Wastes Generated Monthly Actual Quantities of C&D Wastes Generated Monthly										ated Monthly		
Month	Total Quantity Generated (a)= (b)+(c)+(d)+(e)	Hard Rock and Large Broken Concrete (b)	*Reused in the Contract (c)	Reused in other Projects (d)	Disposed as Public Fill (e)	Imported Fill	Metals	Paper/ cardboard packaging/	Plastics (see Note 3)	Yard Waste	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 '000kg)	(in '000m³)
Jan-24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.015	0.000	0.000	0.000	0.003
Feb-24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002
Mar-24	0.000	0.000	0.000	0.000	0.000	0.000	0.003	0.012	0.015	0.000	0.000	0.006
Apr-24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.013
May-24	0.000	0.000	0.000	0.000	0.000	0.000	0.002	0.000	0.010	0.000	0.000	0.024
Jun-24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.002
Sub-total	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.027	0.025	0.000	0.000	0.050
Jul-24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Aug-24	0.000	0.000	0.000	0.000	0.000	0.000	0.005	0.016	0.007	0.000	0.000	0.035
Sep-24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.054
Oct-24	0.000	0.000	0.000	0.000	0.000	0.000	0.023	0.100	0.058	0.000	0.000	0.018
Nov-24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Dec-24	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total	0.000	0.000	0.000	0.000	0.000	0.000	0.033	0.143	0.090	0.000	0.000	0.157

Remarks:

- 1.Assume the density of soil fill=2.0 tonnes/m3
- 2.Assume the density of rock and broken concrete=2.5 tonnes/m3
- 3.Assume the density of refuse = 1.5 tonnes/m3
- 4.The inert C&D material except slurry and bentonite are disposed at Tuen Mun 38
- 5.The non-inert C&D wastes, including general refuse are disposed at NENT

APPENDIX P COMPLAINT LOGS

Appendix P - Complaint Log

Contract No. YL/2017/03 – Development of Lok Ma Chau Loop: Land Decontamination and Advance Engineering Works

Log Ref.	Date of Complaint	Complaint Route	Reference No.	Complaint Nature	Investigation Finding	Status
1	9-Sep-19	EPD	EPD Ref: 25222-19	Water quality and air quality	Non-project related	Interim report was submitted to EPD on 23 Sep 2019
2	11-Oct-19	EPD	EPD Ref: 28550-19	Air quality	Non-project related	Interim report was submitted to EPD on 6 Nov 2019
3	30-Oct-19	EPD	EPD Ref: 30478-19	Air quality	Non-project related	Interim report was submitted to EPD 14 Nov 2019
4	10-Dec-19	1823 (CEDD)	1823 Case no: 2-6145710343	Noise and air quality	Non-project related	Final reply to 1823 on 24 Dec 2019. IR prepared by Contractor was agreed by IEC and ET
5	5-Mar-21	1823	1823 Case no: 3-6641544979	Air quality	Non-project related	Final reply to 1823 on 11 Mar 2021. IR prepared by Contractor was agreed by IEC and ET

Contract No. YL/2020/01 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 1 – Site Formation and Infrastructure Works inside Lok Ma Chau Loop and Western Connection Road Phase 1 / Contract No.: YL/2020/02 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling / San Tin Highway and Direct Road Link Phase 1 / Contract No.: YL/2021/01 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 3 Direct Road Link Phase 2

Log Ref.	Date of Complaint	Complaint Route	Reference No.	Details of Complaint	Investigation Finding	Status
COM-	11 October	EPD	EPD File	EPD received a public	(a) Water Quality	Interim report
2021-	2021		Ref.:	complaint on 11 October	Non-project related	was submitted
10-01			N07/RN/00	2021. The complainant	According to the interim report, wastewater treatment	to EPD on 29
			024120-21	alleged the following:	facilities and relevant mitigation measures were properly	Oct 2021
				(a) Discharge of muddy	implemented and there is no direct evidence to	
				water from construction sites	demonstrate the muddy discharge was inducted by the	
				of "Development of Lok Ma	Contract.	
				Chau Loop" project to	Further preventive measures, such as increasing the height	
				Shenzhen River in the	of the temporary drainage by using sandbag and providing	
				morning of 8 October 2021;	the earth bund with geo-textile along the site boundary,	
				and,	were implemented on 12 October 2021 in order to avoid	
				(b) Use of powered	muddy water from leaking into Shen Zhen River.	
				mechanical equipment		
				(including excavators and	(b) Noise	
				dump trucks) in the	Project related	
				construction sites of		
				"Development of Lok Ma	• • • • • • • • • • • • • • • • • • •	
				Chau Loop" project on	on 9 October 2021. Severe rainfall was recorded due to	
				Sunday.	the adverse weather. To avoid leakage of the muddy water	
					into the meander of the Shenzhen River, JV mobilized an	
					excavator and dump truck to clear the blockage as an	
					emergency measure.	
					ET reminded the Contractor to update the site drainage	

Log Ref.	Date of Complaint	Complaint Route	Reference No.	Details of Complaint	Investigation Finding	Status
					plan according to the construction programme and closely check the effectiveness of the implemented mitigation measures on site so that the EP, EIA and EM&A manual recommendation and requirements are complied with. In addition, the Contractor was also reminded to prepare a contingency plan for emergency environmental incidents.	
COM- 2021- 11-01	15 November 2021	EPD	EPD File Ref.: N06/RN/00 027302-21	EPD received a public complaint on 15 November 2021. The complainant concerned about the dust nuisance in the construction sites of "Development of Lok Ma Chau Loop" project.	 According to the interim report, dust mitigation measures have been properly implemented on site: Haul road of the main site have been paved with concrete and the speed of the vehicle has been restricted to below 8kmper hour within the construction area to minimize fugitive dust emission. Wheel washing fallibilities have been established at the location where the vehicles into the haul road in order to keep clear of any loose surface material. Mist spray and water trucks have been provided to water the paved haul road regularly and at least once per hour on exposed work site. Water spray has been provided during the handling of the fill material at the site and all the dusty loads transported to, from and between site location have been covered. Induction training and tool box talk have been provided to the site staff and workers regarding the dust suppression measure. Temporary covers have been provided to stockpile of the dusty materials and the exposed slope. 	Interim report was submitted to EPD on 25 Nov 2021

Log Ref.	Date of Complaint	Complaint Route	Reference No.	Details of Complaint	Investigation Finding	Status
COM		EDD	EDD E.I		Further preventive measures, establishment of the automatic water spray system along the haul road and increasing the amount of the mist spray machine to enhance the efficiency of the dust suppression measures will also be provided.	
COM- 2022- 01-01	2 January 2022	EPD	EPD File Ref.: N06/RN/00 000184-22	EPD received a public complaint by phone in Jan 2022 regarding noise from general construction work associated with the Lok Ma Chau Loop Development Project being carried out on 2.1.2022 at around 15:30 hours (i.e. within the restricted hours on Sunday).	According to the location under complaint, the work was likely carried out within the work site of "Direct Road Link to MTR Lok Ma Chau Station" and/or "Western Connection Road". Therefore, interim reports were submitted by Contract No.: YL/2020/01 and YL/2020/02 respectively:- Contract No.: YL/2020/01 According to the site diary, no construction work was carried out during restricted hours at the location under complaint for YL/2020/01 on 2 January 2022. For prevention measure, Permit –to –Work system has been implemented for all the construction works being conducted in the restricted hours to enhance site control. All the construction works need to inform JV at least one day in advance. In addition, all staff and workers involved in the site operation during the restricted hours have to obtain a valid site pass and display to the security guards when entering site area for the enhancement of the site security system. Based on the above information and investigation findings, the noise complaint is not related to the	Interim report was submitted to EPD on 14 Feb 2022

Log Ref.	Date of Complaint	Complaint Route	Reference No.	Details of Complaint	Investigation Finding	Status
					construction works of the Contract YL/2020/01. Contract No.: YL/2020/02 According to the site diary, no construction work was carried out during restricted hours at the location under complaint on 2 January 2022 for YL/2020/02. Nevertheless, construction team was reminded to strictly follow the requirement stated in the issued construction noise permit when construction work is required during restricted hours. Based on the above information and investigation findings, the noise complaint is not related to the construction works of the Contract YL/2020/02.	
COM- 2022- 04-01	4 April 2022	1823	1823 Case no: 3- 715542674 8	The complainant concerned about the muddy surface runoff arising from the construction works of "Development of Lok Ma Chau Loop" project. at Lok Ma Chau Road near Ha Wan Tsuen Road.	According to the interim report, no construction works was carried out at the location of complaint which is outside the site boundary of the Project from 1st April to 4th April 2022. Appropriate water quality mitigation measures have been properly implemented on site and there is no direct evidence to demonstrate the muddy discharge was inducted by the Project. Further preventive measures, such as set up a monitoring point at the exit of the site to check the wheels of the vehicles are clean enough so that no mud and grit adhered to the wheels of the trucks when leaving the site. In addition, sprinkler truck will be only operated at appropriate location within the project site to avoid nuisance to the public road user.	Final reply to 1823 on 12 April 2022. Interim report prepared by Contractor was agreed by IEC and ET

Log Ref.	Date of Complaint	Complaint Route	Reference No.	Details of Complaint	Investigation Finding	Status
COM- 2022- 08-01	1 August 2022	EPD	EPD File Ref.: N06/RN/00 015561-22	The complainant concerned about the muddy water discharged by a piling contractor "德運建築鑽探有限公司" on 20 th July 2022	Contract No.: YL/2020/01 德運建築鑽探有限公司 is not related to the Contract No. YL/2020/01. After checking on site, the complaint was referred to other party.	Interim report was submitted to EPD on 18 Aug 2022
COM- 2022- 08-02	4 August 2022	EPD	EPD File Ref.: N06/RN/00 015953-22	The complainant concerned about the muddy water discharging to the public area from a construction site near Fu Tai Car Park.	Contract No.: YL/2020/02 Joint site investigation with RSS was carried out on 5 Aug 2022 near Fu Tai Carpark. There were no construction works carried out near Fu Tai Carpark and no muddy water was noted. Preventive measures (sand bag bund) had been provided.	Interim report was submitted to EPD on 18 Aug 2022
COM- 2022- 10-01	14 October 2022	EPD	EPD File Ref.: N06/RN/00 022308-22	The complainant concerned about the noise arising from piling works carried out at 6am in the morning and around 11pm at night at the construction site adjacent to the existing Lok Ma Chau MTR Station.	Contract No.: YL/2021/01 According to the interim report, the piling works were carried out with valid construction noise permit from 08:00 to 23:00 under Contract YL/2021/01 nearby Lok Ma Chau Station. Noise control measures (e.g., permit-to-work system) have been implemented on site. Further noise mitigation measure, such as set up the acoustic canvas to enclose the engine of the used powered mechanical equipment to minimize the noise generated from works and the impact to the nearby resident.	Interim report was submitted to EPD on 17 Nov 2022
COM- 2022- 10-02	14 October 2022	EPD	EPD File Ref.: N06/RN/00 022342-22	The complainant concerned about the noise arising from piling works carried out before 7am and at around 11pm at the construction site adjacent to the existing Lok Ma Chau MTR Station.	Contract No.: YL/2021/01 According to the interim report, the piling works were carried out with valid construction noise permit from 08:00 to 23:00 under Contract YL/2021/01 nearby Lok Ma Chau Station. Noise control measures (e.g., permit-towork system) have been implemented on site.	Interim report was submitted to EPD on 17 Nov 2022

Log Ref.	Date of Complaint	Complaint Route	Reference No.	Details of Complaint	Investigation Finding	Status
COM- 2022- 10-03	28 October 2022	EPD	EPD File Ref.: N06/RN/00 023772-22	The complainant concerned about the noise arising from percussive piling works carried out on 27 & 28 Oct 2022 in Lok Ma Chau Loop (at a work site near "落馬州河套區創科園地盤")	Further noise mitigation measure, such as set up the acoustic canvas to enclose the engine of the used powered mechanical equipment to minimize the noise generated from works and the impact to the nearby resident. Contract No.: YL/2020/01 According to the interim report, no percussive pilling works were carried out under Contract No. YL/2020/01 inside Lok Ma Chau Loop on 27 th and 28 th October 2022 according to per Condition 2.9 (d) of EP 477/2013/A.	Interim report was submitted to EPD on 22 Nov 2022
COM- 2022- 11-01	20 November 2022	EPD	EPD File Ref.: N07/RN/00 026174-22	The complainant concerned about the noise arising from piling works carried out at around 7am to around 10pm at the construction site adjacent to the Lok Ma Chau minibus station (落馬州關口 小巴站旁地盤).	Contract No.: YL/2021/01 According to the interim report, the piling works were carried out with valid construction noise permit from 09:00 to 23:00 under Contract YL/2021/01 nearby Lok Ma Chau Station. Noise control measures (e.g., permit-to-work system) have been implemented on site. Further noise mitigation measure, such as set up the acoustic canvas to enclose the engine of the used powered mechanical equipment and along the site boundary facing the resident of Shenzhen City to minimize the noise generated from works and the impact to the nearby resident. In addition, the duration of potential noisy construction activities (e.g., core demouling and casing extraction)	Interim report was submitted to EPD on 5 Dec 2022

Log Ref.	Date of Complaint	Complaint Route	Reference No.	Details of Complaint	Investigation Finding	Status
					were also minimized.	
COM- 2022- 12-01	4 December 2022	EPD	EPD File Ref.: N06/RN/00 027607-22)	The complainant alleged that: " 打樁噪音造成困擾,情況已維持幾個星期,最初只係星期六下午,近兩星期日日朝早點前後就開始,到黃昏點幾6點先至停". The complainant provided co-ordinate information (x=826305.0; y=842363.0) for reference.	Contract No.: YL/2020/01 According to the interim report, no percussive piling works were carried out since the commencement of the Contract with reference to the site diary records. Refer to the coordinate information (x=826305.0; y=842363.0) provided by the complainant, the location of concerned is not within the works area under the Contract. Based on the above information and investigation findings, the noise complaint is not related to the construction works of the Contract.	Interim report was submitted to EPD on 22 Dec 2022
COM- 2022- 12-01	8 December 2022	EPD	EPD File Ref.: N06/RN/00 028165-22)	The complainant alleged that there was percussive piling works carried out within the work site of Lok Ma Chau Loop, and commented that "落馬洲河套地盤打樁噪音問題,到目前仍然如是". The complainant provided a video record of 7 Dec 2022 (taken at around 1500 hours) showing the suspected percussive piling work. The complainant provided coordinate information (x=826305.0; y=842363.0)	Contract No.: YL/2020/01 According to the interim report, no percussive piling works were carried out since the commencement of the Contract with reference to the site diary records. Refer to the coordinate information (x=826305.0; y=842363.0) provided by the complainant, the location of concerned is not within the works area under the Contract. Based on the above information and investigation findings, the noise complaint is not related to the construction works of the Contract.	Interim report was submitted to EPD on 22 Dec 2022

Log Ref.	Date of Complaint	Complaint Route	Reference No.	Details of Complaint	Investigation Finding	Status
COM-	15 February	EPD	EPD File	for reference, and did not indicate where he/she was affected by the construction noise. The complaint was lodged by	Contract No.: YL/2021/01	Interim report
2023-02-01	2023		Ref.: N06/RN/00 004267-23)	a resident of Shenzhen City '…"附上落马洲工程夜间持续到现在还在工作的视频,轰隆声非常影响我们住在对面深圳居民的休息!希望能得到改善!不要在夜间扰民!谢谢!". Two short videos were attached in EPD's email dated 15 February 2023.	According to the interim report, piling works were carried out by the Contractor from 09:00 to 23:00 with valid construction noise permit under Contract YL/2021/01 of the Public Transport Interchange of Lok Ma Chau MTR Station. Noise monitoring was conducted for works during the restricted hours and no exceedance was recorded. The duration of working time for core demoulding and casting extraction were also minimized in order to reduce noise levels. Acoustic canvas sheets were installed to enclose the engine of used PME and deployed along the site boundary facing the resident of Shenzhen City to minimize the noise generated from works and the impact to the nearby resident. For enhancement, a 3m high noise barrier was installed next the rotary drilling rig on 15 February 2023. All night works were reviewed and suspended until 19 February 2023.	was submitted to EPD on 24 Feb 2023
COM- 2023- 03-01	3 March 2023	EPD	EPD File Ref.: N06/RN/00	The complaint was lodged by a resident of Shenzhen City "附件有视频, 拍不到做工	Contract No.: YL/2021/01 According to the interim report, the piling works were	Interim report was submitted to EPD on 17

Log Ref.	Date of Complaint	Complaint Route	Reference No.	Details of Complaint	Investigation Finding	Status
			006284 23	程,但机器的轰隆声从早到晚,即使现在 22:24 分还在热火朝天的工作中!孩子和老人都需要休息,特别是老人,这种声音让他们已经很久没能早点休息!!望能解决!或者可否告知什么时候工程能结束? A short video was attached in EPD's email on 8 th March 2023.	carried out from 09:00 to 23:00 with valid construction noise permit under Contract YL/2021/01 at the Public Transport Interchange of Lok Ma Chau MTR Station. Other than the piling works, there were no construction works undertaken by Contract YL/2021/01 on that night. Noise source was recorded in the short video provided by the complaint. However, the noise source had yet to be ascertained. Since the commencement of the contract, Permit to Work (PTW) System for construction works undertaking during restricted hours has been implemented. PMEs used were followed the granted CNP as well as the condition(s) stipulated in CNP were fulfilled. In addition, noise monitoring was conducted for works during the restricted hours, and no exceedance was recorded. Acoustic canvas sheets were installed to enclose the engine of used powered mechanical equipment. A 3m high noise barrier was installed next to the rotary drilling	Mar 2023
					rig. For enhancement, another 3m high noise barrier was erected facing the residential blocks of Shenzhen City on	
					7 March 2023. The piling works at the site area near Lok Ma Chau MTR Station are tentatively scheduled to be completed in the first quarter of 2024.	
COM-	3 April 2023	EPD	EPD File	The complaint was lodged by	Contract No.: YL/2021/01	Interim report
2023- 04-01			Ref.: N06/RN/00	a resident of Shenzhen City "this site is still operating at	According to the interim report, the piling works were	was submitted to EPD on 27

Log Ref.	Date of Complaint	Complaint Route	Reference No.	Details of Complaint	Investigation Finding	Status
			009011-23	this time (10:15pm). It is not the first time it operates until this late but every single night since the work began. Last Sunday, it operated until 4pm". A sound recording and phot were attached to the email.	carried out from 08:00 to 19:00 on 2 April (Sunday) and 08:00 to 23:00 on 3 April with valid construction noise permit under Contract YL/2021/01 at the Public Transport Interchange of Lok Ma Chau MTR Station. Other than the piling works, there were no construction works undertaken for Contract YL/2021/01 during the aforementioned periods. The complaint included a sound recording that captured noise, but the source of the noise has not yet been determined. Since the commencement of the contract, Permit to Work (PTW) System for construction works undertaking during restricted hours has been implemented. Frontline supervisor and sub-contractors have to apply a PTW one working day in advance of the construction works during restricted hours and attend the pre-work briefing prior to commencing works on site to ensure strict compliance with the conditions of construction noise permit. No works and PMEs were allowed without the approved PTW form.	Apr 2023
					Based on the Contractor's record, two rotary drill rigs were operated as listed in Group L of granted CNP at 08:00 – 19:00 on 2 April (Sunday) and 19:00 – 23:00 on 3 April, and only one group (L) of the PME was used for carrying out construction work at the same time. PMEs used were followed the granted CNP as well as the condition(s) stipulated in CNP were fulfilled. The power generating part of the rotary drilling rigs was screened by	

Log Ref.	Date of Complaint	Complaint Route	Reference No.	Details of Complaint		Investiga	tion Finding		Status
					conducted exceedance for core of minimized barriers we Another no blocks of S All construtions were identified, provided to April 2023.	for works during was recorded. The was recorded. The was recorded. The was recorded and the was recorded and the was recorded and the works per reviewed and A refresher traingle or relevant frontly.	ition, noise may be the restricted. The duration of casing extract ce noise levels. It to the rotary e erected facing extract during and no non-coming on a CNP coline staff and we	hours, and no f working time ion were also 3m high noise drilling rigs. the residential the restricted impliance was ompliance was	
COM- 2023- 05-01	8 May 2023	EPD	EPD Fi le R e f.: N06/RN/00 011649 23	A public complaint was received by EPD on 8 May 2023 and supplemented a video taken by complainant on 14 May 2023. The complaint was lodged by a resident of Shenzhen City "地點,港鐵落馬洲站,樓下近巴士總站,福田口岸建築地盤剛,經常發出噪音,剛才星期六五月六號約15點40分,估計噪音超過100分配,另外經常在18:00後,及於星期日公眾假期等日子進行施工及發出噪音造成滋擾。"	According being under	taken nearby Loday) and 14 May 6 May (Saturday) 08:00 to 19:00 (Normal working hours)	19:00 to 23:00 (Restricted hours)	R Station on 6 were: 14 May (Saturday) 08:00 to 19:00 (Restricted hours)	Interim report was submitted to EPD on 17 May 2023

Log Ref.	Date of Complaint	Complaint Route	Reference No.	Details of Complaint		Investigation Findi	ng	Status
					activities: The noise record arising from Conti		was considered not	
					(PTW) System for restricted hours 1	r construction works	ract, Permit to Work s undertaking during ted. No works and oved PTW form.	
					PMEs used record Date: Time (restricted hours)	6 May (Saturday) 19:00 to 23:00	14 May (Saturday) 08:00 to 19:00	
					Group of granted CNP:	L	M	
					PMEs used:	1 x Rotary drilling rig	2 x De-senders 2 x Mobile cranes 2 x Air compressors	
					condition(s) stiput generating part of acoustic barrier.	lated in CNP were f the rotary drilling I In addition, noi	d CNP as well as the fulfilled. The powerigs was screened by se monitoring was ricted hours, and no	
					exceedance was in for core demoul- minimized in ord noise barrier were	recorded. The durated ding and casing extern to reduce noise to installed next to the	ion of working time extraction were also levels. A 3m high the rotary drilling rig. Facing the residential	

Log Ref.	Date of Complaint	Complaint Route	Reference No.	Details of Complaint	Investigation Finding	Status
					blocks of Shenzhen City. The generators used on site were Quality Powered Mechanical Equipment (QPME). According to the calculation by the Contractor during the non-restricted hour on 6 May (Saturday), the mitigated noise level at the nearest residential building in Shenzhen based on the SWL of PMEs used were below 75dB(A). All construction works performed during the restricted hours were reviewed and no non-compliance was identified. A refresher training on a CNP compliance was provided to relevant frontline staff and workers on 12 May 2023. The deployment of the temporary noise barriers would be reviewed from time to time to cater for the changing site conditions.	
COM- 2023- 10-01	2 October 2023	EPD	EPD Fi le R e f.: N07/RN/00 023409-23	EPD received a public complaint on 2 October 2023 regarding flytipping of C&D wastes from a construction site. "街燈 BD1944、BD1308附近有地盤非法傾倒建築物料(紅毛泥)到河流中,導致河中魚類死亡".	Contract No.: YL/2020/02 According to the interim report, the following investigation was conducted: 1. EPD SEPI Mr. Arthur Lau and his team, accompanied by CRBC Environmental Officer, Mr. Calvin So, carried out site inspection at Lok Ma Chau works area on 4 October 2023. During the inspection, no dead fish and construction waste was found in the nullah. Three water samples were taken by EPD (two from the nullah near street lamp post nos. BD1944 and BD1308 respectively, one from the wastewater treatment facility at Fu Tai works area)	Interim report was submitted to EPD on 6 Nov 2023

Log Ref.	Date of Complaint	Complaint Route	Reference No.	Details of Complaint	Investigation Finding	Status
					during the inspection. No adverse comment was received from EPD during the inspection regarding the captioned. 2. A joint site investigation amongst ET, IEC, AECOM and CRBC was carried out on 4 October 2023. No dead fish and deposition of construction waste (e.g. cement) was identified at the nullahs on both sides of Lok Ma Chau Road. Wastewater generated near Fu Tai works area was properly treated prior to discharge to the designated discharge point in accordance with the Discharge Licence (Licence Number: WT10001592-2023). No inert material was placed near the nullah in Fu Tai works area. No chemical is discharged to the existing Chau Tau nullah.	
					 The construction waste in Fu Tai works area was free from the nullah, sandbags were provided at the working area near the nullah. The inert construction waste (e.g. soil) generated in Fu Tai works area was transported to Reedbed works area for further arrangement, such as temporary storage for future use and disposal at designated Public Fill Bank. The construction activities conducted from 25 September 2023 to 6 October 2023 in Fu Tai works area are the following: (a) RCD drilling (Involving driven of steel casing into rock head level instead of applying bentonite, wastewater was collected and recycled by set of sedimentation tanks, 	

Log Ref.	Date of Complaint	Complaint Route	Reference No.	Details of Complaint	Investigation Finding	Status
					therefore no wastewater was leaked to nearby nullah.) (b) RCD airlifting (Wastewater was collected by set of sedimentation tanks and discharged after treatment of Wetsep to discharge point) (c) Concreting by tremie pipe without applying of curing compound (Wastewater was displaced by concrete within the steel casing and discharged after treatment of Wetsep to discharge point without any overflow) The construction waste generated was transported to Reedbed works area for further arrangement. The construction activities conducted at the works area opposite to street lamp post no. BD1308 is unlikely to cause any effect to the nullah next to street lamp post no. BD1944 as nullah system is already diverted to different stream next to Chau Tau Ventilation Building. Therefore, the construction activities adjacent to the existing Chau Tau nullah were discrete from the downstream nullah.	
					 Mitigation measures taken on wastewater pollution control and waste management: (a) Wastewaste treatment facilities were employed in Fu Tai Area. Wastewater generated in the area was treated properly in accordance with the Discharge Licence (Licence Number: WT10001592-2023) 	

Log Ref.	Date of Complaint	Complaint Route	Reference No.	Details of Complaint	Investigation Finding	Status
					before discharge to the designated discharge point since the Discharge Licence (Licence Number: WT10001592-2023) was granted (early September 2023). (b) The nullah near Fu Tai works area is free from construction material, sandbags were provided at the working area near the nullah since the commencement of works in Fu Tai works area. (c) CCTVs were installed along the nullah in Lok Ma Chau Road for monitoring since August 2023. The site condition of the nullah in Lok Ma Chau Road can be seen at real time and recorded through the CCTVs. No dead fish and construction waste was found in the nullah during the period of 25 September 2023 to 4 October 2023. No incident of oil / chemical spillage at Fu Tai Site area. 6. Nevertheless, CRBC will continue to comply with the Water Pollution Control Ordinance and Waste Disposal Ordinance. Based on the investigation result, it is considered that the complaint was not	
COM- 2023-	4 December 2023	EPD	N/A	EPD received a public complaint on 4 December	related to Contract No. YL/2020/02. Contract No.: YL/2020/02	Interim report was submitted
12-01	2023			1 *	According to the interim report, the following	to EPD on 19

Log Date of Complain	Complaint Reference No.	Ce Details of Complaint	Investigation Finding	Status
		water and dust nuisance from a construction site. "落馬洲潘屋村口有一個地盤排放出泥水及造成大塵滋擾。這地盤是鄰近村民等車的地方,可以影響到出入的老人。" The complainant made a request that "dust screens" should be set up at the construction area near "the public light bus stand" alleged as temporary nature for Pun Uk Tsuen.	 Excavation and site clearance was conducted at the concerned site area. EPD SEPI Mr. Arthur Lau and his team, accompanied by CRBC Environmental Officer, Mr. Calvin So and RSS, carried out site inspection at Pun Uk Tsuen works area on 5 December 2023. During the inspection, no muddy water and dust nuisance were found at the concerned site area. No adverse comment was received from EPD during 	Dec 2023

Log Ref.	Date of Complaint	Complaint Route	Reference No.	Details of Complaint	Investigation Finding	Status
					 (a) Double layer of sandbags have been placed along the work area to prevent wastewater to be ran-off from the site. (b) Dust screen has been erected to minimize dust nuisance to nearby pedestrians. 5. Nevertheless, CRBC will continue to comply with the Water Pollution Control Ordinance and Air Pollution Control Ordinance. Base on the investigation result, it is considered that the complaint was not related to Contract No. YL/2020/02. 	
COM- 2024-1- 01	14 January 2024	EPD	EPD File Ref.: N06/RN/00 001389-24)	An environmental complaint has been received by EPD regarding construction works of the Lok Ma Chau Loop Project (Environmental Permit No. EP-477/2013/B). The complainant alleged that there was a construction noise generated from percussive piling works around the work site of Central Government – Aided Emergency Hospital. The details of the complaint according to EPD email dated 16 January 2024 is a	YL/2020/01, no percussive piling works were carried out since the commencement of the Contract and no site activities after 20:00 on 12 January 2024.	Interim report was submitted to EPD on 7 February 2024

Log Ref.	Date of Complaint	Complaint Route	Reference No.	Details of Complaint	Investigation Finding	Status
				follows,"投訴人投訴落馬 洲福田口岸中央援港醫院 附近有工程噪音滋擾事 宜,投訴人表示在1月12日 晚上九點半依然有打樁的 聲音,嚴重滋擾投訴人休 息。要求部問跟進和處理 個案"。	 inspection, no piling works was observed. No adverse comment was received from EPD during the inspection regarding the caption. 3. Based on above information and investigation findings, the noise complaint is not related to the construction works of the Contract YL/2020/01. 	
COM- 2024-2- 01	2 February 2024	EPD	EPD File Ref.: N06/RN/00 003501-24)	EPD received a public complaint on 2 February 2024 " 2024年1月30經過,發現比以往更多白泥滲入渠道,應該由附近地盤排水導致,之前已有少量白泥滲入,當日經過直頭全白,此地盤公司已多次非法排污。"	 Contract No.: YL/2020/02 According to the interim report, the following investigation was conducted: Bored piling works has been conducted at the concerned site area since 30 Dec 2023. Mitigation measures taken on wastewater pollution control: Wastewater treatment facilities were employed in Fu Tai Area. Wastewater generated in the area was treated properly in accordance with Discharge Licence (Licence Number: WT10001592-2023) before discharge to the designated discharge point since the Discharge Licence (Licence Number: 	Interim report was submitted to EPD on 27 February 2024
					area was treated properly in accordance with Discharge Licence (Licence Number: WT10001592-2023) before discharge to the	

0	Date of omplaint	Complaint Route	Reference No.	Details of Complaint	Investigation Finding	Status
					 Designated personnel has been assigned to carry out regular maintenance for Wastewater treatment facilities at all time to ensure wastewater is treated properly prior to discharge. Provision of wheel-washing bay for vehicles leaving site and sump pit has been constructed for collection of wastewater. Wastewater treatment facilities including sump pits, sedimentation tanks and Wetsep have been provided on site to treat, reuse and discharge any wastewater generated. Provision of sandbags to prevent surface runoff from entering nullah and public drainage system. 	
					 A site inspection of the nullah and the concerned works area between RSS and CRBC was carried out on 3 February 2024. No discharge of water, disposal of materials and overflow into the nullah from the works area was observed. Temporary wastewater treatment facilities such as WetSep and connecting pipes were observed to be functioned properly. EPD SEPI Mr. Arthur Lau and his team, accompanied by CRBC Environmental Officer, 	

Log Ref.	Date of Complaint	Complaint Route	Reference No.	Details of Complaint	Investigation Finding	Status
					inspection at Fu Tai Carpark works area on 8 February 2024. During the inspection, no untreated wastewater was found discharging to public drain at the concerned site area. No adverse comment was received from EPD during the inspection under the subject complaint. 5. Nevertheless, the contractor will continue to comply with the Water Pollution Control Ordinance. Holistic review of temporary drainage system including sedimentation tanks, cut-off drain, bunding and sump pits hasbeen conducted to enhance the treatment capability ofwastewater on site.	
COM- 2024-5- 01	24 May 2024	EPD	EPD File Ref.: N06/RN/00 014224-24)	EPD received a public complaint on 24 May 2024 "投訴燈柱 BD0942 附近的馬路工程將污水直接排放到河道,要求環保署跟進及回覆。	Contract No.: YL/2020/02 The complaint was received by the Contractor on 4 June 2024. According to the interim report, the following investigation was conducted: 1. Drainage works and road works has been conducted at the concerned site area since April 2024. 2. Mitigation measures taken on wastewater pollution control: • Wastewater treatment facilities were employed in Fu Tai Area (Next to Chau Tau West Road).	Interim report was submitted to EPD on 24 June 2024

Log Ref.	Date of Complaint	Complaint Route	Reference No.	Details of Complaint	Investigation Finding	Status
					Wastewater generated in the area was treated properly in accordance with the Discharge Licence (Licence Number: WT10001592-2023) before discharge to the designated discharge point since the Discharge Licence (Licence Number: WT10001592-2023) was granted (early September 2023). Routine self-monitoring of the effluent discharge has been carried out. According to the latest lab test result of effluent discharge at the wastewater treatment facility as attached, the effluent discharge did not exceed the limits as stated in the Licence. • Designated personnel has been assigned to carry out regular maintenance for Wastewater treatment facilities at all time to ensure wastewater is treated properly prior to discharge. • Concrete bund had been constructed to prevent the unaffected upstream water from flowing into the site area and water pipe had been placed to bypass the unaffected upstream water. • Wastewater treatment facilities including sump pits, sedimentation tanks and Wetsep have been provided on site to treat, reuse and discharge any wastewater generated. The wastewater treatment facilities has been indicated in the temporary site drainage plan which is	

Log Ref.	Date of Complaint	Complaint Route	Reference No.	Details of Complaint	Investigation Finding	Status
					 incorporated in the Layout Plan. A site inspection of the nullah and the concerned works area between ET, IEC, RSS and CRBC was carried out on 5 June 2024. As observed, most of the works areas were hard-paved. No discharge of wastewater and overflow into the nullah from the works area was observed. EPD Ms. Leung and her team, accompanied by CRBC Environmental Officer, Mr. Calvin So and RSS, carried out site inspection at Lok Ma Chau Road works area on 12 June 2024. During the inspection, no untreated wastewater was found discharging to public drain at the concerned site area. No adverse comment was received from EPD during the inspection under the subject complaint. Base on the investigation result, it is considered that the complaint was not related to Contract No. YL/2020/02. Nevertheless, CRBC will continue to comply with the Water Pollution Control Ordinance. 	
COM- 2024-6- 01	2 June 2024	EPD	EPD File Ref.: N06/RN/00 014984-24)	EPD received a public complaint on 2 June 2024 "投訴人於 2024 年 5 月 31日晚上 10 時在落馬州巴	Contract No.: YL/2021/01 The complaint was received by the Contractor on 28 June 2024. The Contractor took immediately action with findings shown below:	Interim report was submitted to EPD on 19 July 2024

Log Ref.	Date of Complaint	Complaint Route	Reference No.	Details of Complaint	Investigation Finding	Status
				士站乘搭的士,途徑新界的士站及九巴 B1 線巴士站中間的一個地盤有黃泥水湧出街道,投訴人表示已經向警方報案,並已拍攝照片及相片,要求部門跟進。"	Weather: Based on HKO's record, Typhoon No. 3 (Typhoon - Maliksi) was issued on 31 May 2024 from 1640 hrs to 1640 hrs on 1 June 2024, and Amber Rainstorm Warning was issued on 31 May 2024 from 1530 hrs to 1700 hrs. The daily rainfall distribution records at Lok Ma Chau were listed below. Daily Total Rainfall (mm) at Lok Ma Chau 2024 Total Rainfall (mm) at Lok Ma Chau 2024 Total Rainfall (mm) at Lok Ma Chau 2024	
					JV carried out site investigation, there was no construction works carried out at the time of complaint. The source of leaking muddy water was considered as the heavy rainfall.	
					Site condition: At the boundary of construction site, sandbags were placed along the plastic traffic barrier. The site entrance has been hard-paved. Water pumps were installed and connected to the wastewater treatment facilities to ensure all the surface runoff is properly being diverted and collected to the wastewater treatment facilities. Wastewater treatment facility have	

Log Ref. C	Date of Complaint	Complaint Route	Reference No.	Details of Complaint	Investigation Finding	Status
					 EPD visited on 25 June 2024 to follow up the complaint and wastewater treatment facilities were checked with no comment. Onsite investigation carried out among AECOM and JV on 28 June 2024. Observed that the additional sump pit and geotextiles should be provided and installed at the gully. Hard-paving of the site entrances and installation of geotextile at the gully near the public area. Review site drainage and additional sump pit location for wastewater collection. The location of sedimentation tank was changed nearby the additional sump pit. Additional sump pit was provided with automatic water pump connected to waste water treatment facility was applied on site. Check all water pipes were closed before leaving to ensure no leakage during the night time. Sandbags were placed to direct wastewater to additional sump pit. Sandbags were placed along the water barrier. Check and clean the drainage system regularly. Review the temporary drainage plan on a regular basis. Ensure the lab test result of the effluent discharge 	

Log Ref.	Date of Complaint	Complaint Route	Reference No.	Details of Complaint	Investigation Finding	Status
					 compliance with the approved discharge license Conduct a toolbox training of waste water discharge to workers. The exposed site area has been covered with tarpaulin sheet. 	
COM- 2024-7- 01	24 Jun 2024	EPD	EPD File Ref.: N06/RN/00 017057-24)	EPD received a public complaint on 24 June 2024 and refered to CEDD, AECOM, IEC and ET on 17 July 2024. The complaint was regarding construction works of the Lok Ma Chau Loop Project (Environmental Permit No. EP-477/2013/B). The complainant alleged that there was a construction noise generated from the construction site near the Ha Wan Tsuen Road. The details of the complaint is as follows. "元朗下灣村居民黃小姐投訴近來每個星期日 07:00-22:00,下灣村有地盤進行工	Contract No.: YL/2020/01 The Contractor received complaint on 19 July 2024 and carried out complaint investigation, with details and findings shown below: Construction Activities being undertaken inside Western Connection Road (WCR) under Contract YL/2020/01; The site diary (16, 23 June 2024) shows that no noisy work was arranged on previous Sunday 07:00 – 22:00 in WCR. In accordance with current Construction Noise Permit (CNP) condition, the site is located in a non-designated area and Powered Mechanical Equipment (PME) applied in CNP can be used at WCR. Permitto-work was also applied by subcontractor. The complainant did not indicate where he/she was affected by the construction noise.	Interim report was submitted to EPD on 15 August 2024

Log Ref.	Date of Complaint	Complaint Route	Reference No.	Details of Complaint	Investigation Finding	Status
				程,傳出噪音,要求 環 保署跟進及回覆。另她 表示地盤持有環保署噪 音 許 證 (EP731- RN/10004943),她不明 白為何本署會 批出許可 證。".	A site inspection was conducted on June 26, 2024, by EPD, Ms. Fanny Leung and her team, accompanied by representatives from JV at works area of Contract YL/2020/01. During the inspection, no noisy works was observed and no adverse comment was received from EPD during the inspection. Construction Noise Permit (GW-RN0642-24) have been obtained with effective date from 15 June 2024 to 14 September 2024. Furthermore, temporary noise barrier was erected near the noise sensitive receivers. Based on above information and investigation findings, the noise complaint is not application to the construction works of the Contract YL/2020/01.	

APPENDIX Q SUMMARY OF SUCCESSFUL PROSECUTION

Appendix Q - Summary of Successful Prosecution

Date of Successful Prosecution	Details of the Successful Prosecution	Status	Follow Up

APPENDIX R ECOLOGICAL MONITORING RESULTS

Appendix R1 – Avifauna Monitoring Results (Pond 12)

	Species Name				Date	3 October 2024	
		Chinese Name			Weather Condition	Sunny	
			11	C	Abun	dance	
Common Name			Hong Kong Status	Status	Maximum count of bird species recorded (Point Count – 15 mins interval)		
					Before Construction	During Construction	
Amur Stonechat	Saxicola stejnegeri	黑喉石䳭	WV		1	1	
Black Kite	Milvus migrans	黑鳶	R, WV	Cap.586, LC		1	
Black-collared Starling	Gracupica nigricollis	黑領椋鳥	R		2	3	
Common Myna	Acridotheres tristis	家八哥	UR		2	2	
Crested Myna	Acridotheres cristatellus	八哥	R		3	1	
Grey Heron	Ardea cinerea	蒼鷺	WV	PRC	1	1	
Plain Prinia	Prinia inornata	純色鷦鶯	R			3	
Red-whiskered Bulbul	Pycnonotus jocosus	紅耳鵯	R			4	
Scaly-breasted Munia	Lonchura punctulata	斑文鳥	R		7		
Spotted Dove	Streptopelia chinensis	珠頸斑鳩	R		2	4	
White Wagtail	Motacilla alba	白鶺鴒	PM, WV			1	
White-throated Kingfisher	Halcyon smyrnensis	白胸翡翠	R	(LC)	1		
Yellow-bellied Prinia	Prinia flaviventris	黄腹鷦鶯	R		1	2	
	Total No. of Spe	ecies			8	12	
	No. of Birds Reco	19	24				

					Date	10 October 2024	
					Weather Condition	Sunny	
			Hong Kong Status	Consomiation	Abund	dance	
Common Name	Species Name	Chinese Name		Status	Maximum count of bird species recorded (Point Count – 15 mins interval)		
					Before Construction	During Construction	
Amur Stonechat	Saxicola stejnegeri	黑喉石䳭	WV			1	
Black Drongo	Dicrurus macrocercus	黑卷尾	Sv			1	
Black-collared Starling	Gracupica nigricollis	黑領椋鳥	R		3	2	
Chinese Bulbul	Pycnonotus sinensis	白頭鵯	R		2	1	
Chinese Pond Heron	Ardeola bacchus	池鷺	R	PRC(RC)	1	1	
Crested Myna	Acridotheres cristatellus	八哥	R			6	
Grey Heron	Ardea cinerea	蒼鷺	WV	PRC		1	
Little Egret	Egretta garzetta	小白鷺	R	PRC(RC)	1	1	
Oriental Reed Warbler	Acrocephalus orientalis	東方大葦鶯	CPM		1	1	
Plain Prinia	Prinia inornata	純色鷦鶯	R		3	1	
Red-whiskered Bulbul	Pycnonotus jocosus	紅耳鵯	R		2	3	
Scaly-breasted Munia	Lonchura punctulata	斑文鳥	R			4	
Spotted Dove	Streptopelia chinensis	珠頸斑鳩	R		1 2		
White-throated Kingfisher	Halcyon smyrnensis	白胸翡翠	R	(LC)	1		
Yellow-bellied Prinia	Prinia flaviventris	黃腹鷦鶯	R			2	

				Conservation Status	Date	10 October 2024	
Common Name					Weather Condition	Sunny	
					Abundance		
	Species Name				Maximum count of bird species recorded		
					(Point Count – 15 mins interval)		
					Before Construction	During Construction	
	Total No. of Spe	8 15					
	No. of Birds Recorded					28	

		Chinese Name			Date Weather Condition	16 October 2024 Sunny	
					Abundance		
Common Name	Species Name		Hong Kong Status	Conservation Status	Maximum count of bird species recorded (Point Count – 15 mins interval)		
					Before Construction	During Construction	
Amur Stonechat	Saxicola stejnegeri	黑喉石䳭	WV			1	
Black Drongo	Dicrurus macrocercus	黑卷尾	Sv			3	
Black Kite	Milvus migrans	黑鳶	R, WV	Cap.586, LC	1		
Chinese Bulbul	Pycnonotus sinensis	白頭鵯	R		2	2	
Common Myna	Acridotheres tristis	家八哥	UR			2	
Crested Myna	Acridotheres cristatellus	八哥	R		11	11	
Great Cormorant	Phalacrocorax carbo	普通鸕鶿	CWV	PRC		1	
Grey Heron	Ardea cinerea	蒼鷺	WV	PRC	1		
Oriental Magpie-Robin	Copsychus saularis	鵲鴝	R			1	
Plain Prinia	Prinia inornata	純色鷦鶯	R		2		
Red-whiskered Bulbul	Pycnonotus jocosus	紅耳鵯	R		10	12	
Scaly-breasted Munia	Lonchura punctulata	斑文鳥	R		21	16	
Spotted Dove	Streptopelia chinensis	珠頸斑鳩	R		5 4		
White Wagtail	Motacilla alba	白鶺鴒	PM, WV		2	2	
White-rumped Munia	Lonchura striata	白腰文鳥	R		7	6	

					Date	16 October 2024	
					Weather Condition	Sunny	
		Chinasa	Hana Vana	Commention	Abundance		
Common Name	Species Name	Chinese Name		Conservation Status	Maximum count of bird spe	ird species recorded	
		Name	Status	Status	(Point Count – 1	5 mins interval)	
					Before Construction	During Construction	
Yellow-bellied Prinia	Prinia flaviventris	黄腹鷦鶯	R			1	
	Total No. of S	10	13				
	No. of Birds R	62	62				

					Date	21 October 2024	
					Weather Condition	Rainy	
		Chinese	Hong Kong	Conservation Status	Abund	lance	
Common Name	Species Name	Name	Status		Maximum count of bird species recorded (Point Count – 15 mins interval)		
					Before Construction	During Construction	
Azure-winged Magpie	Cyanopica cyanus	灰喜鵲	R		4		
Black Drongo	Dicrurus macrocercus	黑卷尾	Sv		1		
Black Kite	Milvus migrans	黑鳶	R, WV	Cap.586, LC		1	
Black-collared Starling	Gracupica nigricollis	黑領椋鳥	R			2	
Chinese Bulbul	Pycnonotus sinensis	白頭鵯	R		2	2	
Crested Myna	Acridotheres cristatellus	八哥	R		4	2	
Great Cormorant	Phalacrocorax carbo	普通鸕鶿	CWV	PRC		1	
Greater Coucal	Centropus sinensis	褐翅鴉鵑	R	(VU)		1	
Grey Heron	Ardea cinerea	蒼鷺	WV	PRC		2	
Little Egret	Egretta garzetta	小白鷺	R	PRC(RC)	1		
Red-whiskered Bulbul	Pycnonotus jocosus	紅耳鵯	R		5	8	
Scaly-breasted Munia	Lonchura punctulata	斑文鳥	R		34	35	
Spotted Dove	Streptopelia chinensis	珠頸斑鳩	R		3 4		
White-throated Kingfisher	Halcyon smyrnensis	白胸翡翠	R	(LC)	1 1		
Yellow-bellied Prinia	Prinia flaviventris	黃腹鷦鶯	R		1		
	Total No. of Spe	cies			10	11	

Common Name				Conservation Status	Date	21 October 2024	
					Weather Condition	Rainy	
		Ch:	II IZ		Abundance		
	Species Name	Chinese Name			Maximum count of bird species recorded (Point Count – 15 mins interval)		
					Before Construction	During Construction	
No. of Birds Recorded					56	59	

		Chinese Name		g Conservation Status	Date Weather Condition	30 October 2024 Cloudy
Common Name	Species Name				Abundance Maximum count of bird species recorded (Point Count – 15 mins interval)	
					Before Construction	During Construction
Amur Stonechat	Saxicola stejnegeri	黑喉石䳭	WV		2	1
Chinese Bulbul	Pycnonotus sinensis	白頭鵯	R		2	1
Crested Myna	Acridotheres cristatellus	八哥	R		1	3
Common Tailorbird	Orthotomus sutorius	長尾縫葉鶯	R			2
Great Cormorant	Phalacrocorax carbo	普通鸕鶿	CWV	PRC	1	3
Greater Coucal	Centropus sinensis	褐翅鴉鵑	R	(VU)	1	
Grey Heron	Ardea cinerea	蒼鷺	WV	PRC		1
Plain Prinia	Prinia inornata	純色鷦鶯	R		1	1
Red-whiskered Bulbul	Pycnonotus jocosus	紅耳鵯	R		5	6
Spotted Dove	Streptopelia chinensis	珠頸斑鳩	R		1	3
White-rumped Munia	Lonchura striata	白腰文鳥	R		6	
Scaly-breasted Munia	Lonchura punctulata	斑文鳥	R		41	46
Long-tailed Shrike	Lanius schach	棕背伯勞	R			1
Yellow-bellied Prinia	Prinia flaviventris	黃腹鷦鶯	R			1
	Total No. of Spe	10	12			
	No. of Birds Reco	orded			61	69

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; Sv – Summer Visitor; UR – Uncommon 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

(VU): Vulnerable in China Red Data Book Status

EN: Endangered in IUCN Red List Status

(EN): Endangered in China Red Data Book Status

NT: Near Threatened in IUCN Red List Status

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)

Appendix R2 – Herpetofauna (Chinese Bullfrog) Survey Results

Common Name	Species Name	Chinese Name	Date: 17 October 2024					
			Weather Condition: Fine					
			Counts					
			Transect Walk					
			Day Transect Night Transect			t		
			WAL	AFP	Others	WAL	AFP	Others
Chinese Bullfrog	Hoplobatrachus rugulosus	虎紋蛙	0	0	0	0	0	0

Remarks:

It was observed that the shallow agricultural ponds where Chinese Bullfrog were recorded has been altered into relatively dry agricultural lands, which may have an effect on the local Chinese Bullfrog population.

Note:

WAL – Wet Agricultural Land, AFP – Abandoned Fishpond

Appendix R3 – Aquatic Fauna (Rose Bitterling) Survey Results

Common Name	Species Name	Chinese Name	Date: 23 October 2024							
			Weath	Weather Condition: Sunny						
			Counts Location(s)							
			S1	S2	S3	S4	A1	A2	B1	B2
Rose Bitterling	Rhodeus ocellatus	高體鰟鮍	Direct	Observa	ation:					
			0	0	0	0	0	2	0	0
			Sweep Netting:							
			0	0	0	0	0	2	0	0

Appendix R4

Service Contract No. WD/04/2020

Development of Lok Ma Chau Loop: Main Works Package 1 – Environmental Team

Water Quality Monitoring Results on 02-Oct-24

Location	Weather Start Temperature		ature (°C)	pН		Salin	Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)		ty(NTU)	
Location	Condition	Time	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
A1	Sunny	16:34	30.1 30.1	30.1	7.5 7.5	7.5	0.1 0.1	0.1	62.9 62.9	62.9	4.7 4.7	4.7	3.1 3.1	3.1
A2	Sunny	16:16	30.0 30.1	30.1	8.2 8.2	8.2	0.1 0.1	0.1	86.7 86.5	86.6	6.5 6.5	6.5	3.6 3.6	3.6
B1	Sunny	16:07	30.0 29.9	30.0	8.9 8.9	8.9	0.1 0.1	0.1	165.0 165.4	165.2	12.5 12.5	12.5	11.2 11.2	11.2
B2	Sunny	16:00	30.5 30.4	30.5	8.7 8.7	8.7	0.1 0.1	0.1	165.2 165.1	165.2	12.4 12.4	12.4	12.9 13.1	13.0
S1	Sunny	16:40	28.9 28.9	28.9	7.7 7.7	7.7	0.1 0.1	0.1	118.4 118.5	118.5	9.1 9.1	9.1	19.6 19.5	19.6
S2	Sunny	16:26	28.6 28.6	28.6	7.9 7.9	7.9	0.1 0.1	0.1	75.2 75.0	75.1	5.8 5.8	5.8	11.8 12.0	11.9
S3	Sunny	15:46	27.6 27.6	27.6	8.2 8.2	8.2	0.1 0.1	0.1	44.7 44.6	44.7	3.5 3.5	3.5	15.0 15.7	15.4
S4	Sunny	15:54	27.1 27.1	27.1	7.7 7.7	7.7	0.1 0.1	0.1	33.4 33.1	33.3	2.7 2.6	2.7	6.6 6.6	6.6

Development of Lok Ma Chau Loop: Main Works Package 1 – Environmental Team Water Quality Monitoring Results on 07-Oct-24

Location	Weather	Start	Tempera	ture (°C)	p	рН		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)		ty(NTU)
Location	Condition	Time	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
A1	Sunny	14:17	29.8	29.9	7.5	7.5	0.1	0.1	50.0	49.8	3.8	3.8	3.4	3.4
	,		29.9		7.5		0.1	-	49.6		3.8		3.3	
A2	Sunny	14:01	30.5	30.5	7.8	7.8	0.1	0.1	53.8	53.8	4.0	4.0	3.4	3.4
,			30.5	00.0	7.8		0.1	0	53.7	00.0	4.0		3.3	0
B1	Sunny	13:53	30.3	30.3	8.8	8.8	0.1	0.1	163.5	163.6	12.3	12.3	14.4	14.4
51	Outlify	10.00	30.3	00.0	8.8	0.0	0.1	0.1	163.6	100.0	12.3	12.0	14.3	14.4
B2	Sunny	13:46	29.8	29.9	8.7	8.7	0.1	0.1	169.8	169.9	12.9	12.9	17.2	17.2
D2	Suring	13.40	29.9	29.9	8.7	0.7	0.1	0.1	169.9	109.9	12.9	12.5	17.1	17.2
S1	Sunny	14:24	30.6	30.6	7.3	7.3	0.1	0.1	90.2	90.3	6.8	6.8	14.4	14.4
31	Suring	14.24	30.6	30.0	7.3	7.5	0.1	0.1	90.3	90.5	6.8	0.0	14.4	14.4
S2	Sunny	14:10	29.3	29.3	7.7	7.7	0.1	0.1	74.3	74.3	5.7	5.7	12.4	12.3
32	Suring	14.10	29.3	29.3	7.7	7.7	0.1	0.1	74.3	74.3	5.7	5.7	12.1	12.3
S3	Sunny	13:30	28.8	28.9	8.3	8.3	0.1	0.1	40.8	41.1	3.1	3.2	11.1	11.3
33	Suffry	13:30	28.9	20.9	8.3	0.3	0.1	0.1	41.4	41.1	3.2	3.2	11.5	11.3
S4	Cuppy	13:39	29.0	29.0	7.3	7.3	0.1	0.1	36.0	36.0	2.8	2.8	7.1	7.1
54	Sunny	13:39	28.9	29.0	7.3	1.3	0.1	0.1	35.9	30.0	2.8	2.0	7.0	7.1

Development of Lok Ma Chau Loop: Main Works Package 1 – Environmental Team Water Quality Monitoring Results on 16-Oct-24

Location	Weather	Start	Tempera	nture (°C)	p	Н	Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)	
Location	Condition	Time	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
A1	Sunny	09:42	28.4 28.4	28.4	7.1 7.1	7.1	0.1 0.1	0.1	29.4 25.5	27.5	2.3 2.0	2.2	4.3 4.2	4.3
A2	Sunny	09:28	28.3 28.3	28.3	6.8 6.8	6.8	0.1 0.1	0.1	41.8 40.5	41.2	3.3 3.2	3.3	4.6 4.5	4.6
B1	Sunny	09:24	27.9 27.9	27.9	7.1 7.1	7.1	0.1 0.1	0.1	60.8 60.4	60.6	4.8 4.7	4.8	18.1 18.0	18.1
B2	Sunny	09:20	28.1 28.1	28.1	7.3 7.2	7.3	0.1 0.1	0.1	85.2 85.2	85.2	6.7 6.7	6.7	15.4 15.3	15.4
S1	Sunny	09:46	27.7 27.7	27.7	7.0 7.0	7.0	0.04 0.04	0.04	58.3 58.1	58.2	4.6 4.6	4.6	19.9 19.6	19.8
S2	Sunny	09:38	28.5 28.5	28.5	7.1 7.1	7.1	0.1 0.1	0.1	77.9 77.9	77.9	6.1 6.0	6.1	7.8 7.9	7.9
S3	Sunny	09:07	28.0 28.1	28.1	7.2 7.2	7.2	0.1 0.1	0.1	60.7 60.0	60.4	4.8 4.7	4.8	14.8 14.6	14.7
S4	Sunny	09:13	27.6 27.6	27.6	7.1 7.1	7.1	0.1 0.1	0.1	44.0 43.9	44.0	3.5 3.5	3.5	5.8 5.6	5.7

Development of Lok Ma Chau Loop: Main Works Package 1 – Environmental Team Water Quality Monitoring Results on 23-Oct-24

Location	Weather	Start	Tempera	nture (°C)	рН		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)		Turbidity(NTU)	
Location	Condition	Time	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
A1	Sunny	10:26	27.2 27.2	27.2	7.2 7.2	7.2	0.1 0.1	0.1	36.8 36.6	36.7	2.9 2.9	2.9	4.3 4.3	4.3
A2	Sunny	10:07	27.0 27.0	27.0	7.2 7.2	7.2	0.1 0.1	0.1	46.3 46.2	46.3	3.7 3.7	3.7	4.8 4.8	4.8
B1	Sunny	09:59	26.5 26.5	26.5	7.5 7.5	7.5	0.1 0.1	0.1	72.5 72.4	72.5	5.8 5.8	5.8	17.5 17.6	17.6
B2	Sunny	09:51	26.6 26.6	26.6	7.6 7.6	7.6	0.1 0.1	0.1	73.3 73.4	73.4	5.9 5.9	5.9	20.3 20.2	20.3
S1	Sunny	10:33	26.2 26.2	26.2	7.2 7.2	7.2	0.1 0.1	0.1	51.1 51.0	51.1	4.1 4.1	4.1	25.1 25.0	25.1
S2	Sunny	10:18	27.1 27.1	27.1	7.3 7.3	7.3	0.1 0.1	0.1	73.1 73.0	73.1	5.8 5.8	5.8	9.7 9.7	9.7
S3	Sunny	09:35	26.2 26.2	26.2	8.1 8.1	8.1	0.1 0.1	0.1	46.1 45.1	45.6	3.7 3.6	3.7	7.5 7.5	7.5
S4	Sunny	09:44	26.0 26.0	26.0	7.7 7.7	7.7	0.1 0.1	0.1	45.4 45.3	45.4	3.7 3.7	3.7	7.1 6.9	7.0

Development of Lok Ma Chau Loop: Main Works Package 1 – Environmental Team Water Quality Monitoring Results on 30-Oct-24

Location	Weather	Start	Tempera	nture (°C)	р	рН		Salinity ppt		DO Saturation (%)		Dissolved Oxygen (mg/L)		ity(NTU)
Location	Condition	Time	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
A1	Sunny	15:39	24.8 24.8	24.8	7.5 7.5	7.5	0.1 0.1	0.1	54.2 53.7	54.0	4.5 4.5	4.5	5.1 5.0	5.1
A2	Sunny	15:20	24.8 24.8	24.8	7.4 7.4	7.4	0.1 0.1	0.1	60.0 59.6	59.8	5.0 5.0	5.0	4.7 4.7	4.7
B1	Sunny	15:12	24.6 24.6	24.6	7.7 7.7	7.7	0.1 0.1	0.1	92.0 90.4	91.2	7.7 7.5	7.6	19.1 20.1	19.6
B2	Sunny	15:04	24.7 24.7	24.7	8.0 8.0	8.0	0.1 0.1	0.1	96.6 96.9	96.8	8.0 8.1	8.1	17.4 17.3	17.4
S1	Sunny	15:39	25.2 25.2	25.2	7.3 7.3	7.3	0.1 0.1	0.1	66.1 66.0	66.1	5.4 5.4	5.4	30.2 29.9	30.1
S2	Sunny	15:31	26.8 26.8	26.8	7.4 7.4	7.4	0.1 0.1	0.1	79.6 79.5	79.6	6.4 6.4	6.4	5.9 5.8	5.9
S3	Sunny	14:49	26.7 26.7	26.7	8.3 8.3	8.3	0.1 0.1	0.1	62.4 62.4	62.4	5.0 5.0	5.0	10.0 10.3	10.2
S4	Sunny	14:57	26.0 26.0	26.0	7.9 7.9	7.9	0.1 0.1	0.1	48.1 47.6	47.9	3.9 3.9	3.9	5.4 5.3	5.4

APPENDIX S PHOTO RECORDS OF THE STATUS OF PONDS

Appendix S – Photo Records of the status of Ponds in Oct 2024



