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/A – Development of Lok Ma Chau Loop

Quarterly Environmental Monitoring and Audit Report for January to March 2023 (Version 2.0)

Certified By

Dr. Priscilla Choy

(Environmental Team Leader)

REMARKS:

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

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

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Our ref.: LES/J2021-04/CS/L120a Date : 21 September 2023

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: Ms. TAM Im Fei

Dear Ms. TAM,

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

Verification of Quarterly EM&A Report (January to March 2023)

Reference is made to the Quarterly Environmental Monitoring and Audit (EM&A) Report t for January to March 2023 (version 2.0) certified by the Environmental Team Leader received on 18 September 2023. We hereby verify the captioned submission in accordance with Clause 14.4 of the EM&A Manual for the project of Development of Lok Ma Chau Loop.

Should you have any guery, 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	1
Summary of Construction Works undertaken during the Reporting Quarter	1
Environmental Monitoring and Audit Works	1
Air Quality	2
Construction Noise	2
Water Quality	2
Ecological Monitoring	2
Contaminated Soil Remediation	3
Environmental Non-Compliance	3
Environmental Complaint	
Notification of Summons and Successful Prosecutions	4
Future Key Issues	4
1 INTRODUCTION	6
Purpose of the report	
Structure of the report	
•	
2 PROJECT INFORMATION	
Background	
Contracts Organization	
Summary of Construction Works Undertaken during Reporting Quarter	
Status of Environmental Licences, Notifications and Permits	
Summary of EM&A Requirements	15
3 ENVIRONMENTAL MONITORING AND AUDIT REQUIREMENT	16
Monitoring Parameters and Monitoring Locations	
Monitoring Methodology and Calibration Details	18
Environmental Quality Performance Limits (Action and Limit Levels)	
Landscape and Visual	
Ecology Monitoring	
Land Contamination	
Site Audit Summary	20
Environmental Mitigation Measures	20
Status of Waste Management	20
4 MONITORING RESULTS	21
Monitoring Schedule	
Weather Conditions	
Air Quality	
Construction Noise	
Water Quality	
Ecological Monitoring.	
5 ENVIRONMENTAL SITE INSPECTION	
Site Audits	
Implementation Status of Environmental Mitigation Measures	
Solid and Liquid Waste Management Status	27
6 NON-COMPLIANCE (EXCEEDANCES) OF THE ENVIRONMENTAL	
QUALITY PERFORMANCE LIMITS (ACTION AND LIMIT LEVELS)	28
Summary of Exceedances	
Summary of Environmental Non-Compliance	28

Summary of I	Environmental Complaint
Key Issues in	the Coming Three Months 29 chedule 30
Conclusions	USIONS AND RECOMMENDATIONS 31 tions 33
LIST OF TA	BLES
Table I Table 2.1 Table 2.2 Table 2.3 Table 3.1 Table 3.2 Table 3.3 Table 3.4 Table 3.5 Table 3.6 Table 4.1 Table 4.2 Table 4.2 Table 4.3 Table 4.4 Table 4.5 Table 4.6 Table 4.7 Table 4.8	Summary Table for Events Recorded in the Reporting Quarter Site Layout and Scope of Works under the Contracts Key Contacts of the Project Status of Environmental Licences, Notifications and Permits Location for Air Quality Monitoring Stations Impact Air Quality Monitoring Parameters, Frequency and Duration Location of Noise Monitoring Stations Noise Monitoring Parameters, Duration and Frequency Location of Water Quality Monitoring Stations Water Quality Monitoring Parameters, Duration and Frequency Summary of 1-hour TSP Monitoring Results in Reporting Quarter Summary of Noise Monitoring Results in Reporting Quarter Summary of Noise Monitoring Results in Reporting Quarter Summary of Water Quality Monitoring Results in Reporting Quarter Summary of Flight Line Survey Results in the Reporting Quarter The Date of Avifauna Survey in the Reporting Quarter Summary of Avifauna Monitoring Results at Pond 12 Date of Water Quality Monitoring for Aquatic Fauna in the Reporting Quarter
LIST OF FIG	GURES
Figure 1a Figure 1b Figure 2 Figure 3 Figure 4 Figure 5a Figure 5b Figure 5c	Site Layout Plan Site Layout Plan Location of Air Quality Monitoring Stations Location of Noise Monitoring Stations Location of Water Quality Monitoring Stations Locations of Pond 12 and Lok Ma Chau Lookout Locations of Transects for Monitoring of Chinese Bull Frog Locations of Rose Bitterling Sampling Points

LIST OF APPENDICES

Appendix A	Action and Limit Levels
Appendix B	1-hour TSP Monitoring Graphical Presentation
Appendix C	24-hour TSP Monitoring Graphical Presentation
Appendix D	Noise Monitoring Graphical Presentation
Appendix E	Water Quality Monitoring Graphical Presentation
Appendix F	Distribution of Flight Line Usage
Appendix G	Weather Condition
Appendix H	Event Action Plans
Appendix I	Summary of Exceedance
Appendix J	Environmental Mitigation Implementation Schedule (EMIS)
Appendix K	Site Audit Summary
Appendix L	Waste Generation in the Reporting Period
Appendix M	Complaint Log
Appendix N	Summary of Successful Prosecution
Appendix O	Monitoring Schedule for the Present and Next Reporting Quarter

EXECUTIVE SUMMARY

Introduction

1. This is the 17th Quarterly Environmental Monitoring and Audit (EM&A) Report prepared for the project with Environmental Permit No.: EP-477/2013/A - Development of Lok Ma Chau Loop (hereinafter called "the Project"). This report documents the findings of Environmental Monitoring and Audit (EM&A) work conducted in the period from 1st January to 31st March 2023.

Summary of Construction Works undertaken during the Reporting Quarter

- 2. During the reporting quarter, 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

Environmental Monitoring and Audit Works

- 3. Environmental monitoring for the Project was performed in accordance with the EM&A Manual and the monitoring results were checked and reviewed. Site Inspections/Audits were conducted once per week. The implementation of the environmental mitigation measures, Event Action Plans and environmental complaint handling procedures were also checked.
- 4. Summary of the environmental exceedances of the reporting quarter for the Project is tabulated in **Table I**.

Table I Summary Table for Events Recorded in the Reporting Quarter

Environmental Monitoring Paramete		No. of Non-Project related Exceedances		No. of Exceedance related to the Construction Works of the Project		Action Taken
		Action Level	Limit Level	Action Level	Limit Level	1 unen
4: 0 1:	1-hr TSP	0	0	0	0	N/A
Air Quality	24-hr TSP	0	0	0	0	N/A
Construction Noise	Daytime L _{eq(30min)}	1	0	0	0	Refer to Appendix M
	DO	0	0	0	0	N/A
Water Quality	Turbidity	0	0	0	0	N/A
Water Quality	SS	0	0	0	0	N/A

Air Quality

5. All construction air quality monitoring including 1-hour TSP and 24-hour TSP monitoring was conducted as scheduled in the reporting quarter. No Action/Limit Level exceedance was recorded.

Construction Noise

6. All construction noise monitoring was conducted as scheduled in the reporting quarter. One Action Level exceedance was recorded due to one noise complaint received during 0700-1900 hrs on normal weekdays in the reporting quarter. No Limit Level exceedance was recorded.

Water Quality

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

Ecological Monitoring

LMC Loop

Avifauna (Flight Line Survey)

8. Avifauna monitoring was conducted as scheduled in the reporting quarter. Flight lines recorded were in general concentrated mainly on LMC Meander and adjacent areas including Ecological Area Zone (EA Zone) and along Shenzhen River. It demonstrates that the large waterbirds including migratory waterbirds, such as Great Cormorant and Black-faced Spoonbill, prefer using the flight line corridor above the LMC Meander as well as the unaffected Shenzhen River instead of the centre of LMC Loop.

Mammals

- 9. According to Clause 11.4.1.2 of EM&A Manual, the objective of mammals monitoring is to monitor the connectivity between the existing reed marsh and the EA. In view of current site condition of Loop, the connectivity between the existing reed marsh and the EA Zone has been fenced off due to other project's land occupier.
- 10. 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)

11. Avifauna monitoring was conducted as scheduled in the reporting quarter. Flight lines recorded were in general concentrated mainly on LMC Meander and adjacent areas including Ecological Area Zone (EA Zone) and along Shenzhen River. It demonstrates that the large waterbirds including migratory waterbirds, such as Great Cormorant and Black-faced Spoonbill, prefer using the flight line corridor above the LMC Meander as well as the unaffected Shenzhen River instead of the centre of LMC Loop.

Avifauna (Pond 12)

- 12. According to EP Condition 2.7(h), no construction works for Western Connection Road along Ha Wan Tsuen Road is to be conducted in the period between November 2022 and February 2023. The weekly counts of the number and species of birds at Pond 12 has been temporarily suspended from November 2022 to February 2023.
- 13. Avifauna survey at Pond 12 was conducted as scheduled in March 2023. Weekly count of birds using the Pond was recorded. No significant impact of construction activities on bird use of the pond was observed.

Herptofauna

- 14. No herpetofauna survey is to be conducted during the period between November 2022 and February 2023 according to Section 11.4.2.2 of EM&A Manual.
- 15. Herptofauna survey was conducted as scheduled in March 2023. It was observed that the shallow agricultural ponds where Chinese Bullfrog was recorded have 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

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

Contaminated Soil Remediation

- 17. 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-477/2013/A under Contract No. YL/2017/03.
- 18. No work related to land contamination was conducted in the reporting quarter.

Environmental Non-Compliance

19. No environmental non-compliance was recorded in the site inspections during the reporting quarter.

Environmental Complaint

20. Two (2) environmental complaints related to construction noise were received in the reporting quarter. The Complaint Log is presented in **Appendix M**.

Notification of Summons and Successful Prosecutions

21. No notification of summons or successful environmental prosecutions was received in the reporting quarter.

Future Key Issues

22. The major site activities for the coming three months 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) Wetland Compensation Establishment Works and Ecological Monitoring
- (b) Additional Ground Investigation
- (c) Deep Cement Mixing Work for Vehicular Bridge over the Old Shenzhen River Meander and Western Connection Road
- (d) Piling Construction for Vehicular Bridge over the old Shenzhen River Meander
- (e) Structure Construction for Box Culverts
- (f) Drainage Works and Roadworks
- (g) Woodland Compensation 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

Section 1

- (a) Tree Felling and Site Clearance along RW8 area and immediate vicinity. Forming of temporary carriageway to divert traffic
- (b) UU detection / trial pit to locate 132kv line and protection measures for subway modification works
- (c) Demolition of Subway Cycle Track top portion and ramp walls Bay 12, 13 & 14
- (d) Reconstruction of the Subway
- (e) Excavation and lateral support for RW9
- (f) Construction of retaining wall RW9 base slab and wall stem
- (g) Commence construction of retaining wall RW8

Section 2A

- (h) Demolition of Existing Structures along Lok Ma Chau Road is pending VR/AECOM coordination
- (i) Continue Bored Piling for Retaining Wall BPW1
- (j) Site Clearance at LMC Road Zone 3, Zone 4, Zone 5 and Zone 6
- (k) Trial Pit to expose and shift existing Utilities in Zone 4
- (1) Trial Pit to expose and shift existing Utilities in Zone 5
- (m) Liaison with utility companies for utility diversion
- (n) UU works along Lok Ma Chau Road
- (o) Construction of Noise Barrier NB16

- (p) Drainage construction along Lok Ma Chau Road
- (q) Waterworks along Lok Ma Chau Road

Section 2B

- (r) Modification to Box Culvert (design change to foundation DK01 and FBP04 proposed to Integrated Structure EIBC)
- (s) Continue Predrilling / G.I. to foundation of proposed EIBC (under section 2C)

Section 2C

- (t) Pre-drilling and Trial Pits for Bridge ST01 and CTFB, including integrated structure of Box Culvert.
- (u) Bored pile and socketed H-Pile for Bridge ST01
- (v) Drainage diversion for Pier ST01-P04 foundation construction (PMI-018)
- (w) Pile Loading test to trial pile of FBA-01
- (x) Pile head treatment for ST01-P02 & P03
- (y) Construction of Pile Cap and Pier at ST01-P02 & P03

Section 3

- (z) Ground investigation / Pre-drilling and Trial Pits for Bridge DRL
- (aa) Bored pile and socketed H-Pile for Bridge DRL
- (bb) ELS to Cofferdam, Pile Trimming/Treatment for DRL-P12 & P13
- (cc) Commence construction of Pile Cap and Pier at DRL-P12 & P13
- (dd) Forming site access for piling of DRL-P02 & P03
- (ee) Interim watermain along TAR1

Section 5

(ff) Construction of Pai Lau Columns, Structure and Finishes

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

- (a) LMC Station L1 Structural Opening for E&M Diversion
- (b) UU Diversion for Eatermain (MTR) and Diversion at EPTI
- (c) Traffic Diversion for Stage 2 Works at DDFB
- 23. Potential environmental impacts arising from the above construction activities are mainly associated with construction dust, noise, water quality, waste management and ecology.

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 17th Quarterly EM&A Report which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period from January to March 2023.

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 period.
 - Section 3: **Environmental Monitoring and Audit Requirement** summarises monitoring location and parameters, monitoring programmes, monitoring frequencies, Action and Limit Levels, Event / Action Plans, and Site Audit inspection.
 - Section 4: **Monitoring Results** summarises the monitoring results in the reporting quarter.
 - Section 5: **Environmental Site Inspection** summarises the audit findings of the weekly site inspections undertaken within the reporting period.
 - Section 6: Non-Compliance of the Environmental Quality Performance Limits (Action and Limit) summarises any monitoring exceedance, environmental complaints, environmental summons and successful prosecutions within the reporting period.
 - Section 7: **Future Key Issues** summarises the impact forecast and monitoring schedule for the next three months.
 - Section 8: 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. E EP-477/2013/A) was issued on 12th August 2021 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.
- 2.6 For MWP1, there is 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 (hereinafter called the "Contractor 2") 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 (hereinafter called the "Contractor 3") in September 2021.
- 2.9 During the reporting quarter, 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 (Contract 3)
- 2.10 The layout of the construction works and the scope of works under the Contracts are summarised in **Table 2.1**.

Table 2.1 Site Layout and Scope of Works under the Contracts

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 measures for the works mentioned in the items (a) to (f) above. 	Figure 1a
Contract No. YL/2020/01 – Development of Lok Ma	a) Ground treatment and site formation works;b) Construction of carriageway, footpaths,	Figure 1b
Chau Loop: Main Works	cycle tracks and a public transport	
Package 1 – Contract 1 Site	interchange within the Loop;	
Formation and	c) Construction of Western Connection Road	
Infrastructure Works	Phase 1 through widening of existing Ha	

Contract(s)	Scope of Works	Site Layout Plan
inside Lok Ma Chau Loop and Western Connection Road Phase 1	Wan Tsuen East Road, which includes construction of footpath, cycle track, slopes, retaining walls and a vehicular bridge over the old Shenzhen River meander; d) Provision of other infrastructures, including a tertiary sewage treatment works and sewerage system, water supply system, drainage system, and other associated works; and - Environmental mitigation measures including about 18 ha offsite wetland compensation and about 1.3 ha offsite woodland compensation.	
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	 a) Construction of Western Connection Road Phase 2 through widening of a section of existing Lok Ma Chau Road; b) Construction of Direct Road Link Phase 1 comprising a viaduct of about 720mm 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; d) Construction of associated works including road improvement works, footpaths, cycle tracks, slopes, retaining walls, water supply system and drainage system; and (a) Provision of noise barriers. 	Figure 1b
Contract No.: YL/2021/01 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 3 Direct Road Link Phase 2	 a) Construction of an elevated public transport interchange of an approximate area of 5,700 square metres above the existing Lok Ma Chau 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 e) Associated roadworks, landscaping, electrical and mechanical works and ancillary works. 	Figure 1b

Contracts Organization

2.11 There are different parties with different levels of involvement in the Contracts 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. Davy KS CHAN	24176370	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	L/2020/01				
AECOM	Consultants	Mr. Eric Wong	9861 8664	TBA	
		Site Agent - Mr. Jeremy Luk	90137913	27740197	
CRCC-Kwan	Contractor	Senior Engineer – Mr. Max Mak	9263 1116	2774 0197	
Lee-Paul Y. JV		Senior Engineer – Mr. Stephen Leung	9770 6390	2774 0197	
		Environmental Officer – Ms. Lila Lui	52610378	27740197	
Contract No. YI	./2020/02				
AECOM	Consultants	Mr. Eric Wong	9861 8664	TBA	
		Site Agent – Mr. Raymond Suen	9779 8871	3996 9202	
China Road and Bridge Corporation		Deputy Team Leader – Mr. Roger Poon	9503 2488	3996 9202	
Corporation		Environmental Officer – Mr. Calvin So	9724 6254	3996 9202	
Contract No. YI	L/2021/01		<u>'</u>		
AECOM	Consultants	Mr. Eric Wong	9861 8664	TBA	
	Contractor	Site Agent – Mr. Desmond Tang		5188 0815	3015 7861
Paul YChun Wo-CRCC JV		Section Agent – Mr. Charles Choi	6350 0142	3015 7861	
		Environmental Officer – Mr. Tino Law	6856 4150	3015 7861	

Summary of Construction Works Undertaken during Reporting Quarter

2.12 The major site activities undertaken in the reporting quarter 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

Month(s)	Major Site Activities			
January 2023	(a) Wetland Compensation Establishment Works and Ecological			
_	Monitoring.			
	Filling Work, Ground Investigation Works and Deep Cement			
	Mixing works for Vehicular Bridge over the Old Shenzhen River			
	Meander.			
	(c) Piling Works for Box Culvert A and C.			
	(d) Excavation and Lateral Support (ELS) Cofferdam Construction and			
	Underground Utilities (UU) installation for Road L1.			
February 2023	(a) Wetland Compensation Establishment Works and Ecological			
·	Monitoring.			
	(b) Ground Investigation Works, Deep Cement Mixing works and Piling			
	works for Vehicular Bridge over the Old Shenzhen River Meander.			
	Piling Works, Excavation and Lateral Support (ELS) Cofferdam			
	Construction for Box Culvert A and C.			
	Excavation and Lateral Support (ELS) Cofferdam Construction and			
	Underground Utilities (UU) installation for Road L1.			
March 2023	(a) Wetland Compensation Establishment Works and Ecological			
	Monitoring			
	(b) Ground Investigation Works, Deep Cement Mixing works and Piling			
	works for Vehicular Bridge over the Old Shenzhen River Meander			
	(c) Excavation and Lateral Support (ELS) Cofferdam Construction for			
	Box Culvert A and C			
	(d) Excavation and Lateral Support (ELS) Cofferdam Construction and			
	Underground Utilities (UU) installation for Road L1			
	(e) Deep Cement Mixing works 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

Month(s)	Major Site Activities
January 2023	(a) Tree felling.
	(b) Box Culvert Modification.
	(c) Pre-drilling works.
	(d) Socketed H-pile, Approach Ramp and Abutment DRL-A01.
	(e) Demolition of Existing Structures.
	(f) DDA for Full-span erection of ST01.
	(g) Retaining Wall BPW1 Bored Piling works.
	(h) Bored pile works.
	(i) Excavation and lateral support for structure formation of Retaining Wall RW9.
	(j) Removal of existing public road lighting by others near San Tin
	Public Transport Interchange.
	(k) Re-construction of concrete footway near Pun Uk Tsuen Pai Lau.
	(l) Sheet piling for ELS of Pile Cap.
February 2023	(a) Box Culvert Modification.
	(b) Pre-drilling works.
	(c) Socketed H-pile, Approach Ramp and Abutment DRL-A01.
	(d) Demolition of Existing Structures.
	(e) DDA for Full-span erection of ST01.
	(f) Retaining Wall BPW1 Bored Piling works.
	(g) Bored pile works.
	(h) Excavation and lateral support for structure formation of Retaining Wall RW9.
	(i) Trial pit to expose 132kV powerline and demolition of the Subway
	Cycle Track Bay. Removed cover of the Subway to be modified.
	(j) Construction of Pai Lau columns under TTA Stage 2.
	(k) TTA along footpath in Lok Ma Chau Road and Trial pit for CLP 132kV cable joint bay.
	(l) Sheet piling for ELS of Pile Cap, Waling installation and drainage
	diversion.
	(m) Concrete plant trial in Precast Yard in Panyu, China.
75 1 2022	(n) Drainage diversion for forming site access near DRL-P02.
March 2023	(a) Tree felling works.
	(b) Pre-drilling works.
	(c) Socketed H-pile, Approach Ramp & Abutment DRL-A01 and
	Compression load test for FBA-01-P4. (d) Demolition of Existing Structures.
	(e) DDA for Full-span erection of ST01.
	(f) Retaining Wall BPW1 Bored Piling works, excavation for bored pile
	and concrete for bored pile.
	(g) Bored pile works at ST01, CTFB and DRL.
	(h) Construction of base slab Bay 16 to Bay 13, excavation for Bay 8 to
	10 and deposition of rock fill.
	(i) Trial pit to expose 132kV powerline and sheet piling.
	(j) Construction of Pai Lau columns.
	(k) TTA along footpath in Lok Ma Chau Road and Trial pit for CLP
	132kV cable joint bay.
	(l) ELS of Pile Cap, pile head treatments and drainage diversion.
	(m) Concrete plant trial in Precast Yard in Panyu, China.
	(n) Drainage diversion for forming site access near DRL-P02,
	temporary access ramp from LMC MTR Station to Reedbed No. 3,

Month(s)	Major Site Activities
	Site setup in Reedbed No.3 and Sheet pile driving for ELS of DRL-P12.

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

Month(s)	Major Site Activities					
January 2023	(a) Underground Utility detection.					
	(b) Pre-drilling.					
	(c) Trial pit excavation.					
	(d) Material / Waste Lifting and Delivery.					
	(e) Utilities diversion.					
	Bored pile construction.					
	Erect external scaffold outside LMC Station.					
	(h) E&M.					
	(i) ABWF.					
	(j) Temporary Lighting system.					
	(k) Site Demarcation.					
February 2023	(a) Underground Utility detection.					
	(b) Pre-drilling.					
	(c) Trial pit excavation.					
	Material / Waste Lifting and Delivery.					
	Utilities diversion.					
	Bored pile construction. Erect external scaffold outside LMC Station.					
	Erect external scaffold outside LMC Station. E&M.					
	E&M. ABWF					
	ABWF. Temporary Lighting system					
	Temporary Lighting system.					
	(k) Site Demarcation.					
March 2023	(a) Underground Utility detection.					
	(b) Pre-drilling.					
	(c) Trial pit excavation.					
	(d) Material / Waste Lifting and Delivery.					
	(e) Utilities diversion.					
	(f) Bored pile construction.					
	(g) Erect external scaffold outside LMC Station.					
	(h) E&M.					
	(i) ABWF.					
	(j) Temporary Lighting system.					
	(k) Site Demarcation.					

Status of Environmental Licences, Notifications and Permits

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

Table 2.3 Status of Environmental Licences, Notifications and Permits

	Permit / License	Valid Period		Gr. 4		
Contract No.	No.	From	То	Status		
Environmental Permit (EP)						
Contract No. YL/2020/01 Contract No. YL/2020/02	EP-477/2013	22/11/2013	N/A	Valid		
Contract No. YL/2021/01	EP-477/2013/A	12/08/2021	N/A	Valid		
Construction Noise Perm	nit (CNP)					
Contract No. YL/2020/01	GW-RN0954-22	11/10/2022	10/01/2023	Expired in the reporting quarter		
	GW-RN0022-23	14/01/2023	13/04/2023	Valid		
	GW-RN1065-22	09/11/2022	08/02/2023	Expired in the reporting quarter		
C N	GW-RN1066-22	09/11/2022	08/02/2023	Expired in the reporting quarter		
Contract No. YL/2020/02	GW-RN0113-23	10/02/2023	09/06/2023	Valid		
	GW-RN0142-23	09/02/2023	08/05/2023	Valid		
	GW-RN0326-23	31/03/2023	30/06/2023	Valid		
Contract No. YL/2021/01	GW-RN1230-22	28/12/2022	27/03/2023	Expired in the reporting quarter		
	GW-RN0277-23	28/03/2023	27/06/2023	Valid		
Notification pursuant to	Air Pollution Contro	l (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	17/5/2022	Till the Contract ends	Receipt acknowledged by EPD		
Billing Account for Dispo	osal of Construction	Waste				
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	Waste Producer					
Contract No. YL/2020/01	WPN 5213-620- C4632-01	20/08/2021	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 under Water Pollution Control Ordinance						

Contract No.	Permit / License	Valid	l Period	Status	
Contract No.	No.	From	To	Status	
Contract No. YL/2020/01	WT00039466-2021	15/07/2022	21/12/2026	Valid	
Contract No. 1 L/2020/01	WT00041233-2022	18/07/2022	31/07/2027	Valid	
Contract No. YL/2020/02	WT00041280-2022	27/07/2022	31/07/2027	Valid	
	WT00042556-2022	23/11/2022	30/11/2027	Valid	
Contract No. YL/2021/01	WT00041259-2022	21/07/2022	31/07/2027	Valid	
Specified Processes for Cement Works under Air Pollution Control Ordinance					
Contract No. YL/2020/01	In application				

Summary of EM&A Requirements

- 2.14 The EM&A programme requires construction noise monitoring, air quality monitoring, water quality monitoring, ecological monitoring and environmental site audits. The EM&A requirements are described in the following sections, including:
 - All monitoring parameters;
 - Action and Limit levels for all environmental parameters;
 - Event / Action Plans;
 - Environmental mitigation measures, as recommended in the Project EIA study final report; and
 - Environmental requirements in contract documents.

15

3 ENVIRONMENTAL MONITORING AND AUDIT REQUIREMENT

Monitoring Parameters and Monitoring Locations

Air Quality Monitoring

3.1 In accordance with the EM&A Manual, impact 1-hour and 24-hour TSP monitoring was conducted to monitor the air quality for the Project. The locations of monitoring stations are shown in **Figure 2**. **Table 3.1** describes the locations 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 Base at 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.
- 2. 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, 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.
- 3.2 **Table 3.2** summarises the monitoring parameters and frequencies of impact air quality monitoring during the Works Contracts activities.

Table 3.2 Impact Air Quality Monitoring Parameters, Frequency and Duration

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

Noise Monitoring

- 3.3 In accordance with the EM&A Manual, construction noise monitoring was conducted to monitor the construction noise arising from the construction activities. The locations of the monitoring stations are shown in **Figure 3**. **Table 3.3** describes the locations of the noise monitoring stations.
- 3.4 **Table 3.4** summarises the monitoring parameters and frequencies of construction noise monitoring during the Works Contracts activities.

Table 3.3	ocation	of Noise	Monitoring	Stations
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Monitoring Station	Location	Measurement
NMS-1	Village house in Ha Wan Tsuen	Façade Measurement
NMS-2	Village house along existing Ha Wan	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:

(a) 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.

Table 3.4 Noise Monitoring Parameters, Duration and Frequency

Monitoring Station	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

Remarks:

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

 L_{10} is the level exceeded for 10% of the time. For 10% of the time, the sound or noise has a sound pressure level above L_{10} . L_{90} is the level exceeded for 90% of the time. For 90% of the time, the noise level is above this level.

Water Quality Monitoring

- 3.5 In accordance with the EM&A Manual, impact water quality monitoring was conducted to monitor the water quality for the Project. The locations of the monitoring stations are shown in **Figure 4**. **Table 3.5** describes the locations of the water quality monitoring stations.
- 3.6 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 and the completion 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 3.5 Location of Water Quality Monitoring Stations

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

Note:

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

3.7 **Table 3.6** summarises the monitoring parameters, monitoring depths and frequency of the water quality monitoring during the Works Contracts activities.

Table 3.6 Water Quality Monitoring Parameters, Depths and Frequency

	ı	<u> </u>	
Monitoring Station	Parameter (unit)	Depth	Frequency
CS1, IS1, IS2, IS4, CS5, IS6, BS1	 Temperature(°C) pH (pH unit) turbidity (NTU) water depth (m) salinity (ppt) DO (mg/L and % of saturation) SS (mg/L) 	 3 water depths: 1m below water surface, mid-depth and 1m above river bed. If the water depth was less than 3m, mid-depth sampling only. If water depth was less than 6m, mid-depth might be omitted. 	• 3 days per week during the construction period of the Contract

Monitoring Methodology and Calibration Details

3.8 Monitoring works/equipment were conducted/calibrated regularly in accordance with the EM&A Manual. Copies of calibration certificates could be referred to the relevant Monthly EM&A Reports.

Environmental Quality Performance Limits (Action and Limit Levels)

3.9 The environmental quality performance limits i.e. Action and Limit Levels were derived from the baseline monitoring results. Should the measured environmental quality parameters exceed the Action/Limit Levels, the respective action plans would be implemented. The Action/Limit Levels for each environmental parameter are given in **Appendix A**.

Landscape and Visual

3.10 Inspection of the implementation of landscape and visual mitigation measures was conducted during weekly site audit. Most of the necessary mitigation measures have been implemented and recommended follow-up actions have been discharged by the Contractors. Details of the audit findings and implementation status are summarised in **Appendix K** and **Appendix J**.

Ecology Monitoring

LMC Loop

Avifauna (Flight Line Survey)

3.11 Avifauna monitoring was carried out on a monthly basis to identify the number and species composition of birds using the flight line and monitor if there was any impact from construction works. The flight line corridor survey work was carried out at the Lok Ma Chau Lookout, according to Section 11.4.1.1 of the EM&A Manual.

Mammals

3.12 Monitoring of mammals was also required for Eurasian Otter, other mammals and dogs during the site formation and establishment period of Ecological Area, to observe the connectivity between the existing reed marsh and the Ecological Area, and if there was any sign of otter and

mammals around the Ecological Area.

- 3.13 In view of current site condition of Loop, the connectivity between the existing reed marsh 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.
- 3.14 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

Avifauna (Flight Line Survey)

3.15 Refer to Section 3.11.

Avifauna (Pond 12)

3.16 Pond 12 avifauna survey was required to be carried out on a weekly basis to identify the number and species composition of birds using Pond 12, according to Section 11.4.2.1 of the EM&A Manual. Location of Pond 12 is shown in **Figure 5a.**

Herpetofauna

3.17 Herpetofauna monitoring of the only herpetofauna species of conservation interest in the area around Pond 12, the Chinese Bullfrog, was required to be conducted once monthly during wet season (March to October), including both day-time and night-time survey. The purpose of the survey is to ensure the abundance of the Chinese Bullfrog in the area of Pond 12, LMC Tsuen, and nearby wetlands is not affected by the construction works. The monitoring was conducted according to Section 11.4.2.2 of the EM&A Manual. Location of the Herpetofauna survey transect is shown in **Figure 5b** for reference.

Aquatic Fauna

- 3.18 Monthly surveys of the population of Rose Bitterling at streams and associated ponds south of Lung Hau Road, weekly *in-situ* monitoring of water quality and whole site audit were required 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. Weekly *in-situ* monitoring of water quality in LMC Meander was also required during the construction phase and the first 12 months of operation. The monitoring was conducted according to Section 11.4.2.3 of the EM&A Manual.
- 3.19 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 were 4 sampling points along the stream, and 4 sampling points at the ponds. The sampling locations are shown in **Figure 5c**.
- 3.20 *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**.
- 3.21 Measurements for *in-situ* monitoring of water quality included temperature, pH, salinity, turbidity and dissolved oxygen. Monitoring works/equipment were conducted/calibrated regularly in accordance with the EM&A Manual. Copies of calibration certificates were

19

provided in relevant Monthly EM&A Reports.

Land Contamination

- 3.22 According to Section 8.2 of EM&A Manual 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. 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.
- 3.23 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.
- 3.24 As advised by the Contractor, Decontamination for all hot spots (LD01 LD05) was completed and backfilling of treated soil was completed on 31st May 2021. After completion of remediation works at each hot spots, Interim Remediation Reports (IRR) was prepared by the Land Contamination Specialist and submitted to EPD in accordance with Condition 2.16 of the EP-477/2013/A. The status of IRRs is 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.
- 3.25 No work related to land contamination was conducted in the reporting quarter.

Site Audit Summary

3.26 Site audit was carried out on a weekly basis to monitor and audit the timely implementation of proper environmental management practices and mitigation measure of the Project. The observations and recommendations made during the reporting period are summarised in **Appendix K**.

Environmental Mitigation Measures

3.27 Relevant mitigation measures as recommended in the project EIA report have been stipulated in the Project EM&A Manual for the Contractors to implement. A summary of the Environmental Mitigation Implementation Schedule (EMIS) is given in **Appendix J**.

Status of Waste Management

3.28 The amount of wastes generated by the major site activities of this Project during the reporting quarter is shown in **Appendix L**.

4 MONITORING RESULTS

Monitoring Schedule

4.1 The environmental monitoring schedules in the reporting quarter are presented in **Appendix O**.

Weather Conditions

- 4.2 The details of weather conditions for each individual monitoring session were presented in relevant monthly EM&A reports.
- 4.3 The weather conditions and wind data in the reporting quarter is summarised in **Appendix G**.

Air Quality

1-hour and 24-hour TSP Monitoring

- 4.4 All construction air quality monitoring was conducted as scheduled during the reporting quarter.
- 4.5 No Action/Limit Level exceedance was recorded in this reporting quarter. A summary of exceedance is attached in **Appendix I**.
- 4.6 **Table 4.1** and **Table 4.2** summarise the air quality monitoring results which are extracted from the monthly reports for this Project. The graphical presentations of the air quality monitoring results are shown in **Appendix B** and **Appendix C**.

 Table 4.1
 Summary of 1-hour TSP Monitoring Results in Reporting Quarter

Reporting Months	Air Quality Monitoring Station	Average μg/m³	Range μg/m³	Action Level µg/m³	Limit Level µg/m³
	DMS – 1a	78.6	31.5 – 163.6	353	
Ionnous	DMS - 2A	94.1	10.8 - 186.1	370	
January 2023	DMS - 2B	111.0	37.5 - 173.9	370	
2023	DMS - 3	83.8	24.0 - 151.3	351	
	DMS - 4A	80.1	30.1 - 139.3	350	
	DMS - 1a	57.3	26.0 - 103.6	353	
February	DMS - 2B	89.2	43.3 - 164.1	370	500
2023	DMS - 3	96.2	42.6 - 205.6	351	
	DMS - 4A	80.6	42.0 - 146.5	350	
	DMS – 1a	104.4	52.2 - 193.8	353	
March	DMS - 2B	112.0	56.5 - 218.3	370	
2023	DMS - 3	101.4	56.2 - 181.7	351	
	DMS – 4A	98.2	49.5 - 187.8	350	

 Table 4.2
 Summary of 24-hour TSP Monitoring Results in Reporting Quarter

Reporting	Monitoring	Average	Range	Action Level	Limit Level
Months	Station	μg/m³	$\mu g/m^3$	$\mu g/m^3$	μg/m³
	DMS - 1a	49.5	26.6 - 129.5	184	
Ionnomy	DMS - 2A	67.9	32.6 - 99.8	166	
January 2023	DMS - 2B	68.0	64.7 - 71.1	166	
2023	DMS - 3	40.9	22.8 - 63.6	166	
	DMS - 4A	37.8	21.8 - 56.9	152	
	DMS – 1a	48.0	17.7 - 72.8	184	
February	DMS - 2B	65.9	34.9 - 90.1	166	260
2023	DMS - 3	50.0	24.5 - 70.2	166	
	DMS - 4A	36.3	20.1 - 60.8	152	
	DMS – 1a	77.1	58.7 - 92.0	184	
March	DMS - 2B	75.1	60.3 - 90.5	166	
2023	DMS - 3	57.6	39.9 - 75.3	166	
	DMS – 4A	40.5	27.2 - 50.2	152	

Construction Noise

- 4.7 All construction noise monitoring was conducted as scheduled in the reporting quarter.
- 4.8 One Action Level exceedance was recorded due to one noise complaint received during 0700-1900 hrs on normal weekdays in the reporting quarter. No Limit Level exceedance was recorded. A summary of exceedance is attached in **Appendix I**.
- 4.9 **Table 4.3** summarises the noise monitoring results which were extracted from the monthly reports for this Project. The graphical presentations of the construction noise monitoring results are shown in **Appendix D**.

Table 4.3 Summary of Noise Monitoring Results in Reporting Quarter

Reporting Months	Monitoring Station	Average L _{eq (30 min)} , dB(A)	Range L _{eq (30 min)} , dB(A)	Action Level	Limit Level, dB(A)
	NMS-1	62.0	47.5 - 70.1		
January	NMS-2	70.4	70.7 - 72.0		
2023	NMS-3	52.0	48.3 - 63.9		
	NMS-4A	50.9	48.8 - 58.9		
	NMS-1	64.9	55.6 - 68.2	When one	
February	NMS-2	69.2	68.2 - 70.3	documented	75.0
2023	NMS-3	56.4	52.2 - 59.1	complaint is	/3.0
	NMS-4A	48.4	47.7 - 49.4	received	
	NMS-1	63.7	60.2 - 67.3		
March	NMS-2	72.4	71.4 - 73.0		
2023	NMS-3	58.9	52.0 - 62.5		
	NMS-4A	50.7	46.6 - 53.7		

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.

Water Quality

- 4.10 All water quality monitoring was conducted as scheduled in the reporting quarter.
- 4.11 No water quality monitoring was conducted at IS6 in the reporting quarter since the channel was dry. Water quality monitoring station, IS6 would be further reviewed and a proposal for any alternative monitoring location including justification will be submitted for approval from IEC and EPD.
- 4.12 No water quality monitoring was conducted at IS4 in the periods from 20 to 27 February 2023, 1st to 7th March 2023 and 13th to 22nd March 2023 2023 as the stream was drying up due to dry season.
- 4.13 No Action/Limit Level exceedance was recorded. A summary of exceedance is attached in **Appendix I**.
- 4.14 **Table 4.4** summarises the water quality monitoring results which were extracted from the monthly reports for this Project. The graphical presentations of the water quality monitoring results are shown in **Appendix E**.

 Table 4.4
 Summary of Water Quality Monitoring Results in Reporting Quarter

Reporting	Monitoring	Average	Range	Action Level	Limit Level		
Months	Station	(Depth average)					
DO (mg/L)	DO (mg/L)						
Lannamy	IS1	8.5	7.3 - 14.9	7.0 / NA ⁽⁴⁾	6.8 or 4 ⁽⁴⁾		
January 2023	IS2	9.0	5.5 - 12.0	5.3 / NA ⁽⁴⁾	5.2 or 4 ⁽⁴⁾		
2023	IS4	5.3	4.2 - 7.4	4.1 / NA ⁽⁴⁾	3.8 or 4 ⁽⁴⁾		
Echanomy	IS1	8.7	7.1 - 15.7	7.0 / NA ⁽⁴⁾	6.8 or 4 ⁽⁴⁾		
February 2023	IS2	7.2	5.5 - 14.9	5.3 / NA ⁽⁴⁾	5.2 or 4 ⁽⁴⁾		
2023	IS4	5.4	4.3 - 7.8	4.1 / NA ⁽⁴⁾	3.8 or 4 ⁽⁴⁾		
March	IS1	7.9	7.1 - 11.6	7.0 / NA ⁽⁴⁾	6.8 or 4 ⁽⁴⁾		
2023	IS2	5.9	5.4 - 6.4	5.3 / NA ⁽⁴⁾	5.2 or 4 ⁽⁴⁾		
2023	IS4	5.3	4.2 - 7.8	4.1 / NA ⁽⁴⁾	3.8 or 4 ⁽⁴⁾		
Turbidity (N'	ΓU)						
Tannam.	IS1	7.1	4.5 - 11.4	<u>27.7</u>	<u>29.9</u>		
January 2023	IS2	16.7	7.3 - 31.9	<u>35.5</u>	<u>38.1</u>		
2023	IS4	19.4	9.2 - 53.2	<u>70.9</u>	<u>74.6</u>		
Echanomy	IS1	8.6	5.9 - 13.3	<u>27.7</u>	<u>29.9</u>		
February 2023	IS2	20.9	8.0 - 27.6	<u>35.5</u>	<u>38.1</u>		
2023	IS4	37.3	9.7 - 67.4	<u>70.9</u>	<u>74.6</u>		
March	IS1	12.7	6.1 - 19.0	<u>27.7</u>	<u>29.9</u>		
2023	IS2	24.3	8.9–34.6	<u>35.5</u>	<u>38.1</u>		
2023	IS4	29.0	11.2 - 61.0	<u>70.9</u>	<u>74.6</u>		
SS (mg/L)							
Lannamy	IS1	12.0	5.5 - 19.5	<u>28.0</u>	<u>28.8</u>		
January 2023	IS2	23.3	13.0 - 37.5	<u>39.8</u>	<u>41.2</u>		
2023	IS4	22.7	5.5 - 108.0	<u>155</u>	<u>175</u>		
Fohrmary	IS1	15.6	10.0 - 20.0	<u>28.0</u>	<u>28.8</u>		
February 2023	IS2	30.3	23.5 - 37.5	<u>39.8</u>	<u>41.2</u>		
	IS4	37.8	6.5 - 78.5	<u>155</u>	<u>175</u>		
March	IS1	16.9	7.0 - 27.5	<u>28.0</u>	<u>28.8</u>		
2023	IS2	30.0	19.5 - 38.0	<u>39.8</u>	<u>41.2</u>		
2025	IS4	28.6	9.5 - 51.5	<u>155</u>	<u>175</u>		

Notes:

- (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 10th Dec 2019.

Ecological Monitoring

<u>LMC Loop</u>

Avifauna (Flight Line Survey)

- 4.15 Monthly flight line survey was conducted by ET as scheduled in the reporting quarter. The flight line survey was carried out on 20th January 2023, 24th February 2023 and 24th March 2023.
- 4.16 **Table 4.5** shows the summary of flight line survey results including the number of birds observed and the number of bird-flights for the species in the reporting quarter.
- 4.17 In the reporting quarter, flight lines recorded were in general concentrated mainly on LMC Meander and adjacent areas including Ecological Area Zone (EA Zone) and along Shenzhen River. It demonstrates that the large waterbirds including migratory waterbirds, Great Cormorant and Black-faced Spoonbill prefer using the flight line corridor above the LMC Meander as well as the unaffected Shenzhen River instead of the centre of LMC Loop.
- 4.18 The distribution of flight line usage in the reporting quarter is shown in **Appendix F.**

Table 4.5 Summary of Flight Line Survey Results in the Reporting Quarter

	Jan 2023		Feb 2023		Mar 2023	
Species	Birds Observed	Bird- flights	Birds Observed	Bird- flights	Birds Observed	Bird- flights
Little Egret 小白鷺	369	3,893	332	3,981	40	410
Great Egret 大白鷺	110	1,519	100	1,102	17	167
Chinese Pond Heron 池鷺					3	19
Black-faced Spoonbill 黑臉琵鷺	22	242	44	594	7	66
Black-crowned Night Heron 夜 鷺					1	4
Grey Heron 蒼鷺	28	308	14	152	9	79
Great Cormorant 普通鸕鷀	770	8,855	669	7,103	44	599
Black Kite 黑鳶					13	143
Total	1,299	14,817	1,159	12,932	134	1,487

Mammals

4.19 In view of current site condition of Loop, the connectivity between the existing reed marsh 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.

4.20 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

Avifauna (Flight Line Survey)

4.21 Refer to Sections 4.15 to 4.18.

Avifauna (Pond 12)

- 4.22 According to EP Condition 2.7(h), no construction works for Western Connection Road along Ha Wan Tsuen Road is to be conducted in the period between November 2022 to February 2023. The weekly counts of the number and species of birds at Pond 12 has been temporarily suspended from November 2022 to February 2023.
- 4.23 Pond 12 avifauna surveys were carried out weekly as scheduled in March 2023. The date of avifauna survey was shown in **Table 4.6**.

Table 4.6 The Date of Avifauna Survey in the Reporting Quarter

Month	Dates of Pond 12 Avifauna Survey
Mar 2023	1 st , 6 th , 15 th , 22 nd and 29 th

4.24 **Table 4.7** shows the monitoring results during construction works as compared against the results before the commencement of works of the day. The monitoring results indicated Pond 12 was utilized by waterbird and wetland-dependent species in the reporting quarter during the monitoring. No significant impact of construction activities on bird use of the pond was observed.

Table 4.7 Summary of Avifauna Monitoring Results at Pond 12

Danaut Manth	Number	of Species	Abundance		
Report Month	Before Construction	During Construction	Before Construction	During Construction	
Mar 2023	14	25	100	169	

Herpetofauna

- 4.25 No herpetofauna survey is to be conducted during the period between November 2022 to February 2023 according to Section 11.4.2.2 of EM&A Manual. Herpetofauna survey was conducted as scheduled on 3rd March 2023.
- 4.26 No potential impact due to the construction activities of Western Connection Road was identified during the survey of Chinese Bullfrog in the reporting quarter. 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.

Aquatic Fauna

4.27 Aquatic fauna survey was conducted as scheduled in the reporting. The monthly aquatic fauna survey was carried out on 18th January 2023, 20th February 2023 and 27th March 2023 while *insitu* water monitoring for aquatic fauna at the stream and associated ponds south of Lok Ma Chau

Road was shown in **Table 4.8**.

Table 4.8 Date of Water Quality Monitoring for Aquatic Fauna in the Reporting Ouarter

Month	Dates of Water Quality Monitoring at the Stream and Associated Ponds South of Lung Hau Road
January 2023	5 th , 13 th , 18 th and 26 th
February 2023	1 st , 8 th , 15 th , 20 th and 27 th
March 2023	8 th , 17 th , 20 th and 27 th

- 4.28 No Action / Limit Level exceedance was recorded for the *in-situ* water quality monitoring in the report quarter.
- 4.29 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 quarter. In addition, no deterioration in the water quality due to the construction activities of the Western Connection Road was observed.
- 4.30 Relevant Monthly EM&A Reports could be referred to for the ecological monitoring photo records and results.

5 ENVIRONMENTAL SITE INSPECTION

Site Audits

5.1 Site audits were carried out by ET on weekly basis in the reporting quarter to monitor the timely implementation of proper environmental management practices and mitigation measures on the project site. No non-conformance was identified and the observation and recommendations made in each individual site audit session in the reporting period are summarised in **Appendix K**.

Implementation Status of Environmental Mitigation Measures

5.2 According to the EIA Report, Environmental Permit and the EM&A Manual of the Project, 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 (EMIS) is provided in **Appendix J**.

Solid and Liquid Waste Management Status

- 5.3 In accordance with the EM&A Manual, waste management was audited during weekly site audit to determine if wastes are being managed in accordance with the Waste Management Plan (WMP) prepared for the Project and the relevant legislative and contractual requirements. Waste management practice including waste handling, storage, transportation and disposal were audited.
- 5.4 The Contractors are advised to minimize the wastes generated through the recycling or reusing. All mitigation measures stipulated in the EM&A Manual and waste management plans shall be fully implemented. The status of implementation of waste management and reduction measures are summarised in **Appendix J**.
- 5.5 Waste generated from this Project includes inert C&D materials and non-inert C&D materials. Non-inert C&D materials are made up of general refuse and waste that cannot be reused or recycled and has to be disposed of at the designated landfill sites. The amount of wastes generated by the construction works of the Project during the reporting quarter is shown in **Appendix L**.

6 NON-COMPLIANCE (EXCEEDANCES) OF THE ENVIRONMENTAL QUALITY PERFORMANCE LIMITS (ACTION AND LIMIT LEVELS)

Summary of Exceedances

- 6.1 Environmental monitoring works were performed in the reporting quarter and all monitoring results were checked and reviewed. A summary of exceedance is attached in **Appendix I**.
- 6.2 No exceedance of Action/Limit Level of air quality and water quality was recorded in the reporting quarter.
- 6.3 One Action Level exceedance on construction noise was recorded due to one noise complaint received during 0700-1900 hrs on normal weekdays in the reporting quarter. No Limit Level exceedance was recorded.

Summary of Environmental Non-Compliance

6.4 No environmental non-compliance was recorded in the reporting quarter. The observations and recommendations made in each individual site audit session were presented in **Appendix K**.

Summary of Environmental Complaint

6.5 There were two environmental complaints related to construction noise received in the reporting quarter. The Cumulative Complaint Log since the commencement of the Project is attached in **Appendix M**.

Summary of Environmental Summon and Successful Prosecution

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

Event and Action Plan

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

7 FUTURE KEY ISSUES

Key Issues in the Coming Three Months

7.1 The major construction activities undertaken in the coming three 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) Wetland Compensation Establishment Works and Ecological Monitoring
- (b) Additional Ground Investigation and Site Formation
- (c) Deep Cement Mixing Work for Vehicular Bridge over the Old Shenzhen River Meander and Western Connection Road
- (d) Piling Construction for Vehicular Bridge over the old Shenzhen River Meander
- (e) Structure Construction for Box Culverts
- (f) Drainage Works and Roadworks
- (g) Woodland Compensation 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

Section 1

- (a) Tree Felling and Site Clearance along RW8 area and immediate vicinity. Forming of temporary carriageway to divert traffic
- (b) UU detection / trial pit to locate 132kv line and protection measures for subway modification works
- (c) Demolition of Subway Cycle Track top portion and ramp walls Bay 12, 13 & 14.
- (d) Reconstruction of the Subway
- (e) Excavation and lateral support for RW9
- (f) Construction of retaining wall RW9 base slab and wall stem
- (g) Commence construction of retaining wall RW8

Section 2A

- (h) Demolition of Existing Structures along Lok Ma Chau Road is pending VR/AECOM coordination
- (i) Continue Bored Piling for Retaining Wall BPW1
- (i) Site Clearance at LMC Road Zone 3, Zone 4, Zone 5 and Zone 6
- (k) Trial Pit to expose and shift existing Utilities in Zone 4
- (l) Trial Pit to expose and shift existing Utilities in Zone 5
- (m) Liaison with utility companies for utility diversion
- (n) UU works along Lok Ma Chau Road
- (o) Construction of Noise Barrier NB16
- (p) Drainage construction along Lok Ma Chau Road
- (q) Waterworks along Lok Ma Chau Road

Section 2B

- (r) Modification to Box Culvert (design change to foundation DK01 and FBP04 proposed to Integrated Structure EIBC)
- (s) Continue Predrilling / G.I. to foundation of proposed EIBC (under section 2C)

Section 2C

- (t) Pre-drilling and Trial Pits for Bridge ST01 and CTFB, including integrated structure of Box Culvert
- (u) Bored pile and socketed H-Pile for Bridge ST01
- (v) Drainage diversion for Pier ST01-P04 foundation construction (PMI-018)
- (w) Pile Loading test to trial pile of FBA-01
- (x) Pile head treatment for ST01-P02 & P03
- (y) Construction of Pile Cap and Pier at ST01-P02 & P03

Section 3

- (z) Ground investigation / Pre-drilling and Trial Pits for Bridge DRL
- (aa) Bored pile and socketed H-Pile for Bridge DRL
- (bb) ELS to Cofferdam, Pile Trimming/Treatment for DRL-P12 & P13
- (cc) Commence construction of Pile Cap and Pier at DRL-P12 & P13
- (dd) Forming site access for piling of DRL-P02 & P03
- (ee) Interim watermain along TAR1

Section 5

(ff) Construction of Pai Lau Columns, Structure and Finishes

<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) LMC Station L1 Structural Opening for E&M Diversion
- (b) UU Diversion for Eatermain (MTR) and Diversion at EPTI
- (c) Traffic Diversion for Stage 2 Works at DDFB
- 7.2 Potential environmental impacts arising from the above construction activities are mainly associated with construction dust, noise, water quality, waste management and ecology. Relevant Monthly EM&A Reports could be referred to for the proactive Environmental Protection Proforma summarising the major site activities, potential environmental impacts and recommended mitigation measures for the coming months.

Monitoring Schedule

7.3 The environmental monitoring schedules for the next reporting quarter are presented in **Appendix O.**

8 CONCLUSIONS AND RECOMMENDATIONS

Conclusions

- 8.1 This Quarterly EM&A Report presents the EM&A work undertaken in January to March 2023 in accordance with EM&A Manual.
- 8.2 Environmental monitoring and audit works were performed in the reporting quarter and all monitoring results were checked and reviewed.

Air Quality Monitoring

8.3 All construction air quality monitoring including 1-hour TSP and 24-hour TSP monitoring was conducted as scheduled in the reporting quarter. No Action/Limit Level exceedance was recorded.

Construction Noise Monitoring

8.4 All construction noise monitoring was conducted as scheduled in the reporting quarter. One Action Level exceedance was recorded due to the noise complaint received in the reporting quarter. No Limit Level exceedance was recorded.

Water Quality Monitoring

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

LMC Loop

Avifauna (Flight Line Survey)

8.6 Avifauna monitoring was conducted as scheduled in the reporting quarter. Flight lines recorded were in general concentrated mainly on LMC Meander and adjacent areas including EA Zone and along Shenzhen River. It demonstrates that the large waterbirds including migratory waterbirds, such as Great Cormorant and Black-faced Spoonbill, prefer using the flight line corridor above the LMC Meander as well as the unaffected Shenzhen River instead of the centre of LMC Loop.

Mammals

- 8.7 According to Clause 11.4.1.2 of the EM&A Manual, the connectivity between the existing reed marsh and the EA Zone has been fenced off due to other project's land occupier.
- 8.8 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 quarter and will be resumed subject to the site condition.

31

Western Connection Road

Avifauna (Flight Line Survey)

8.9 Avifauna monitoring was conducted as scheduled in the reporting quarter. Flight lines recorded were in general concentrated mainly on LMC Meander and adjacent areas including EA Zone and along Shenzhen River. It demonstrates that the large waterbirds including migratory waterbirds, such as Great Cormorant and Black-faced Spoonbill, prefer using the flight line corridor above the LMC Meander as well as the unaffected Shenzhen River instead of the centre of LMC Loop.

Avifauna (Pond 12)

- 8.10 According to EP Condition 2.7(h), no construction works for Western Connection Road along Ha Wan Tsuen Road is to be conducted in the period between November 2022 and February 2023. The weekly counts of the number and species of birds at Pond 12 has been temporarily suspended from November 2022 to February 2023.
- 8.11 Avifauna survey at Pond 12 was conducted as scheduled in March 2023. Weekly count of birds using the Pond was recorded. No significant impact of construction activities on bird use of the pond was observed.

Herptofauna

- 8.12 No herpetofauna survey is to be conducted during the period between November 2022 and February 2023 according to Section 11.4.2.2 of EM&A Manual.
- 8.13 Herptofauna survey was conducted as scheduled in March 2023. It was observed that the shallow agricultural ponds where Chinese Bullfrog was recorded have 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

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

Land Contamination

- 8.15 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-477/2013/A under Contract No. YL/2017/03.
- 8.16 No work related to land contamination was conducted in the reporting quarter.

Environmental Site inspections

8.17 Environmental site inspections were conducted as weekly basis in the reporting quarter. No

environmental non-compliance was recorded.

Environmental Complaint and Successful Prosecution

- 8.18 Two (2) environmental complaints related to construction noise (one of these complaints was about noise nuisance during restricted hour) were received in the reporting quarter.
- 8.19 No notification of summons or successful prosecutions related to environmental was received in the reporting quarter.

Recommendations

- 8.20 The mitigation measures recommended in the EIA report and EM&A Manual are considered effective and efficient in minimizing environmental impacts due to construction of the Project during the reporting quarter. The EM&A programme implemented by the ET has effectively monitored the environmental impacts arising from the construction activities and ensure the proper implementation of mitigation measures.
- 8.21 The effectiveness and efficiency of the EM&A programme will be continuously reviewed. The EM&A programme will be improved if deficiencies of the existing EM&A programme are identified.
- 8.22 According to the environmental audits performed in the reporting quarter, the following recommendations were provided to remediate any potential impacts due to the Project:

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 the impervious material to cover the stockpile of dusty materials;
- To design, establish and properly use the wheel washing facilities at the site exits;
- To provide proper maintenance for machinery to prevent emission of black smoke; and
- To inspect NRMM labels which should be displayed for all regulated machines.

Construction 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;
- To provide and maintain properly temporary noise barriers or other appropriate sound reduction measures for operations of noisy equipment near the noise sensitive receivers, if necessary.

Water Impact

- To check the silt curtain regularly and prevent any surface runoff discharge into the old Shenzhen River meander or stream;
- To review and implement temporary drainage system;
- To identify any wastewater discharges from site;
- To remove the sand, floating rubbish or dusty material away from the EA zone, old Shenzhen River meander or stream;

- To divert all the water generated from construction site to de-silting facilities with enough handling capacity before discharge;
- To provide protection along the works boundary to avoid mud from falling into the nullah nearby;
- To review the capacity of de-silting facilities for discharge;
- To ensure the drainage facilities are probably maintained and not be clogged with sediment to avoid overflow;
- To cover 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; and
- To implement the effective water quality mitigation measures according to the site drainage plan, and review the site drainage plan measures as appropriate.

Ecology Impact

- To maintain properly the 3m high olive-green fence around the construction site and review the height of the green fence along the works of meander bridge;
- To provide and maintain visual barrier along Ha Wan Tsuen Road;
- 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; and
- To prevent any surface runoff discharge into the stream.

Waste/Chemical Management

- To check for any accumulation of waste materials or rubbish on site;
- 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 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.

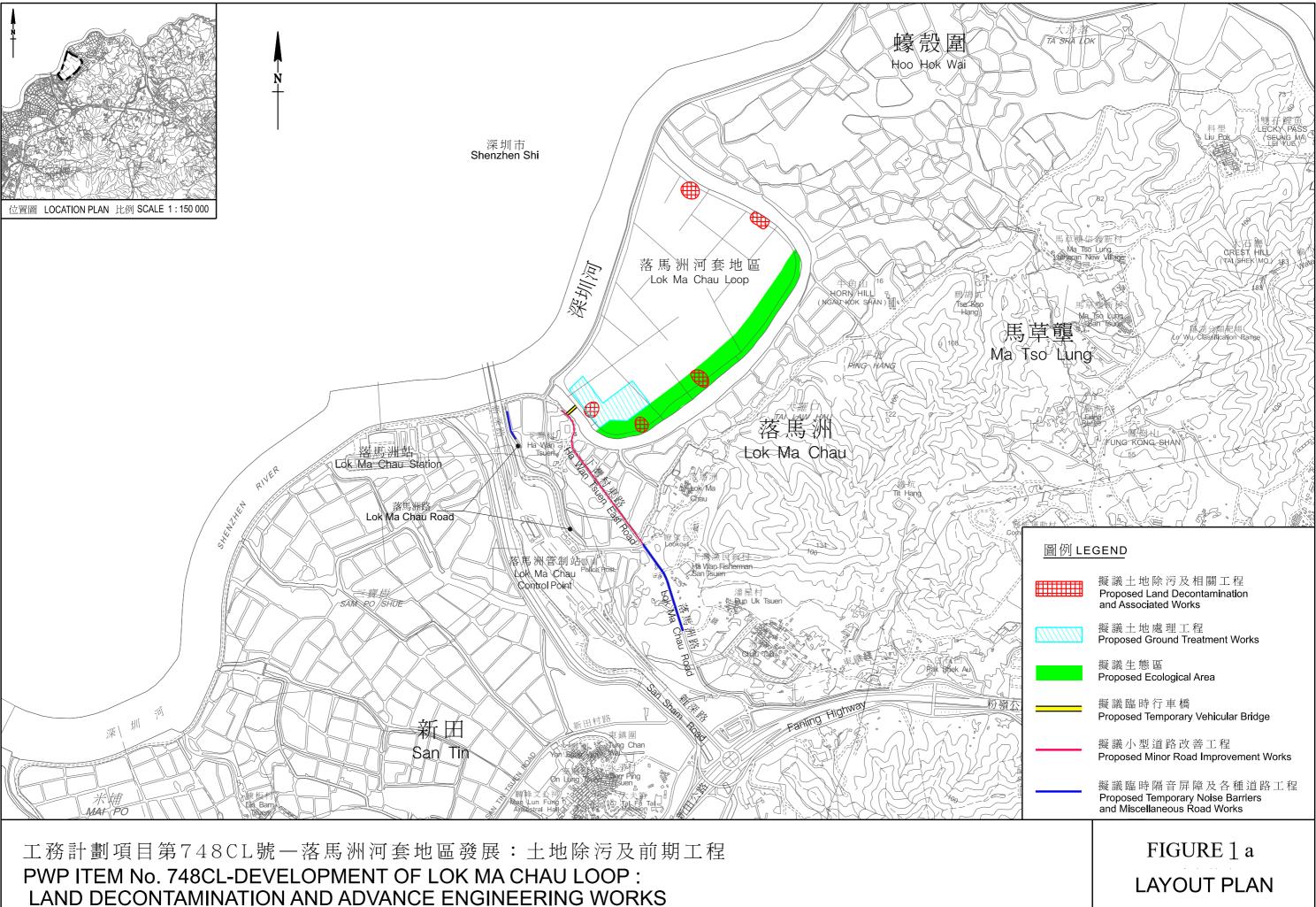
Landscape and Visual

- To erect and maintain the protection fencing and tree protection zone around the preserved trees; and
- To regularly clear the construction materials within the tree protection zone.

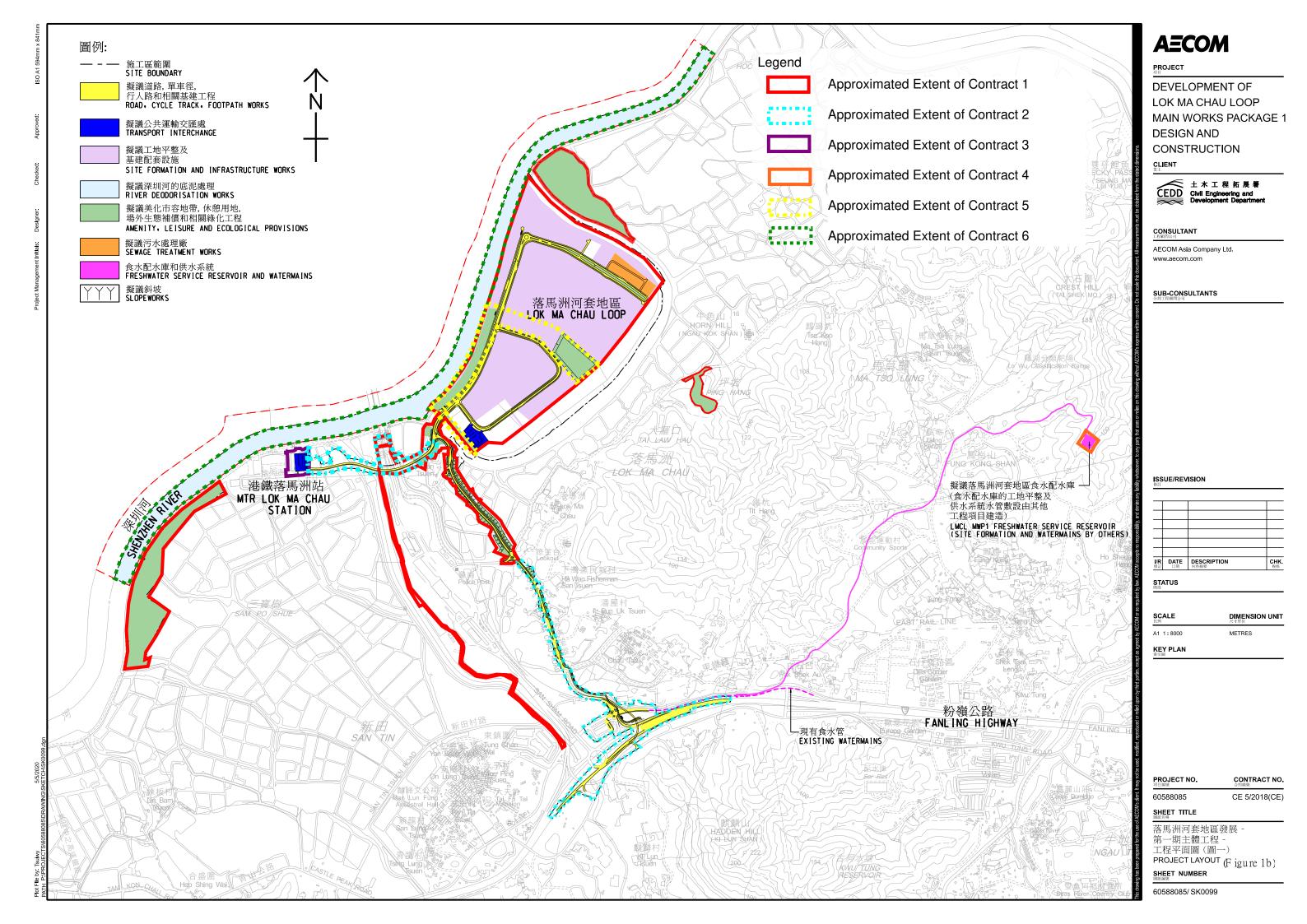
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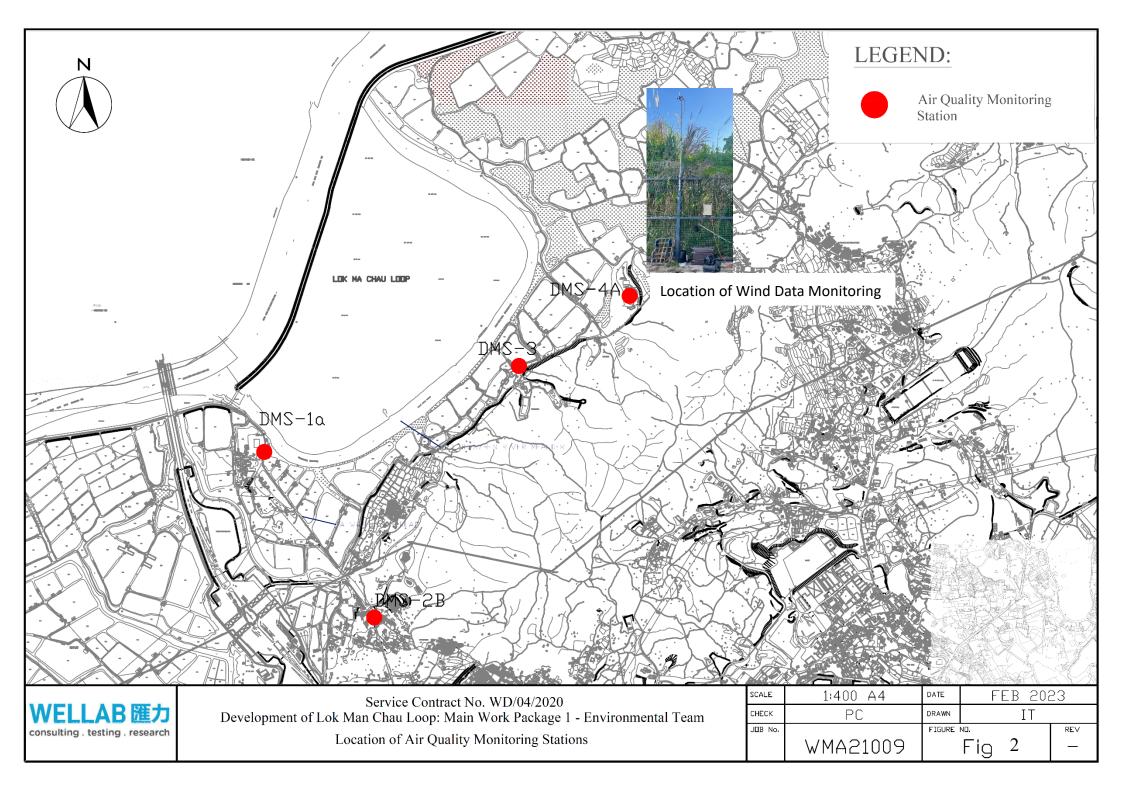
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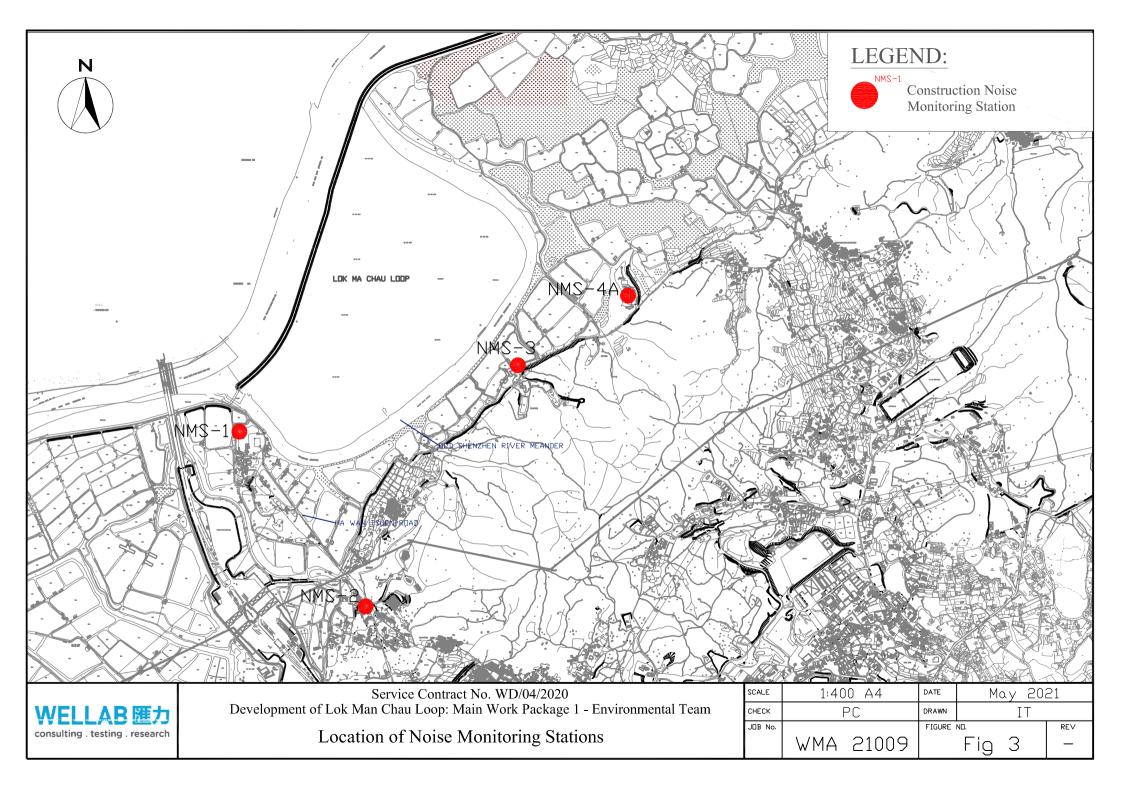
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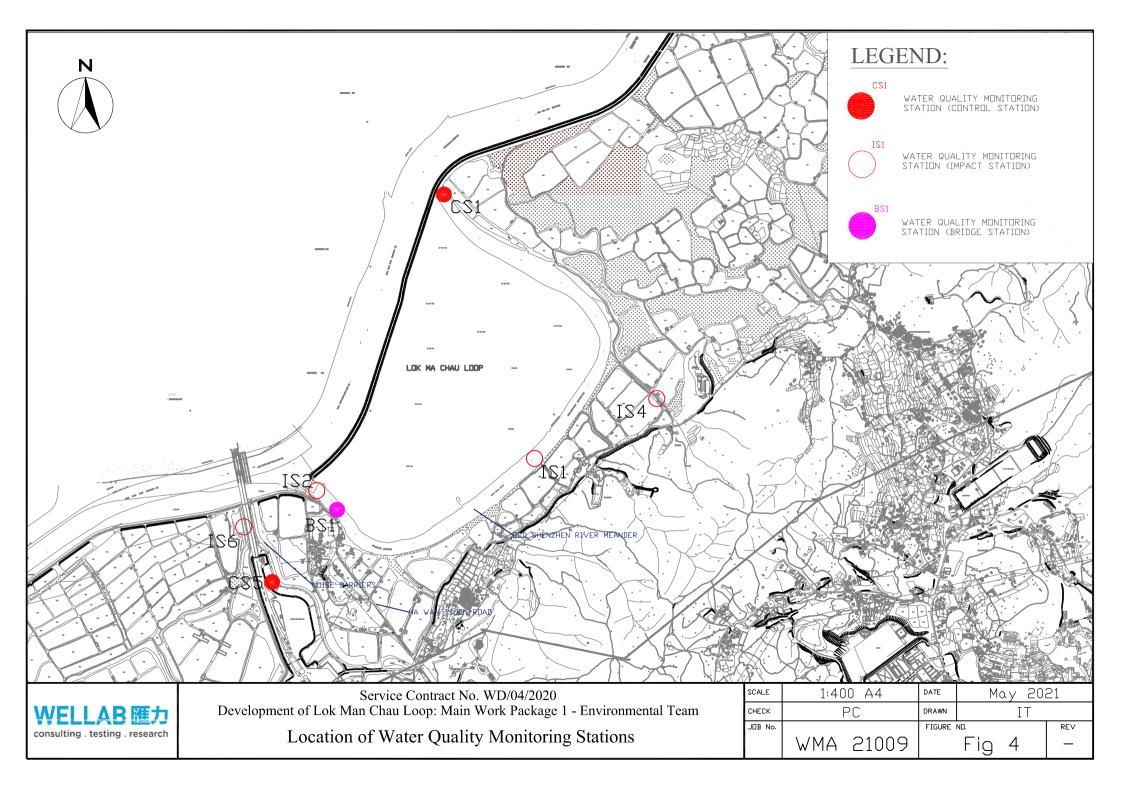


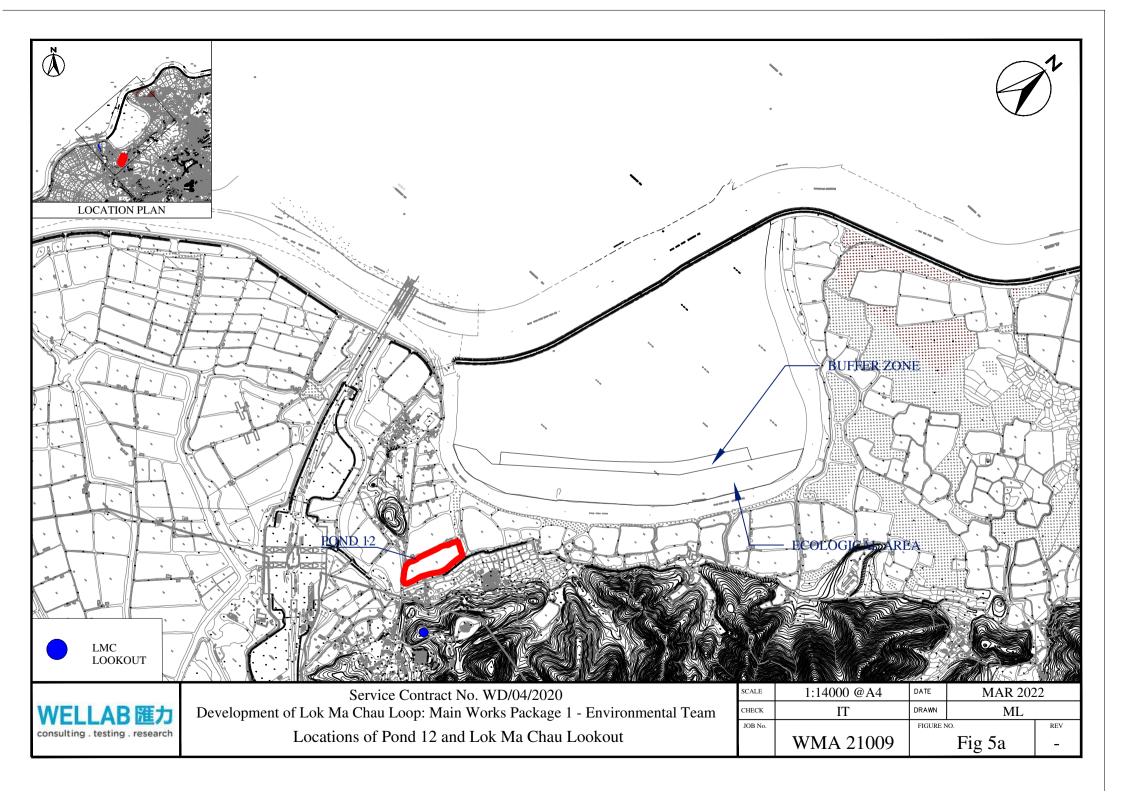
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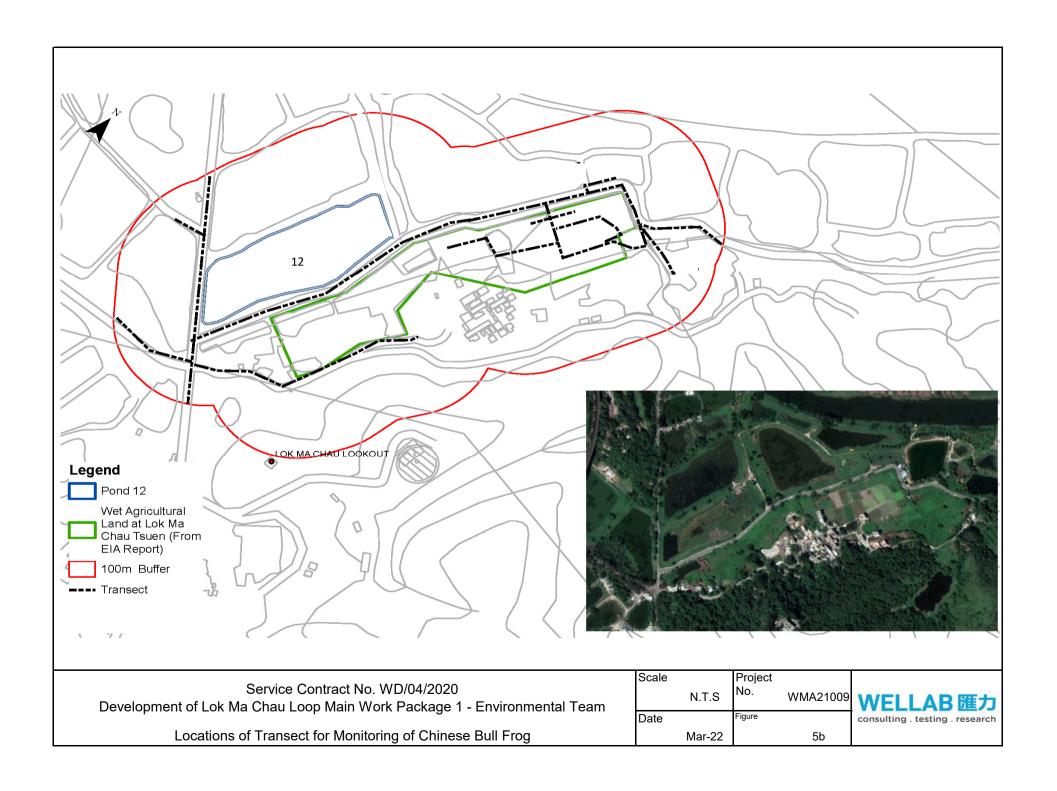


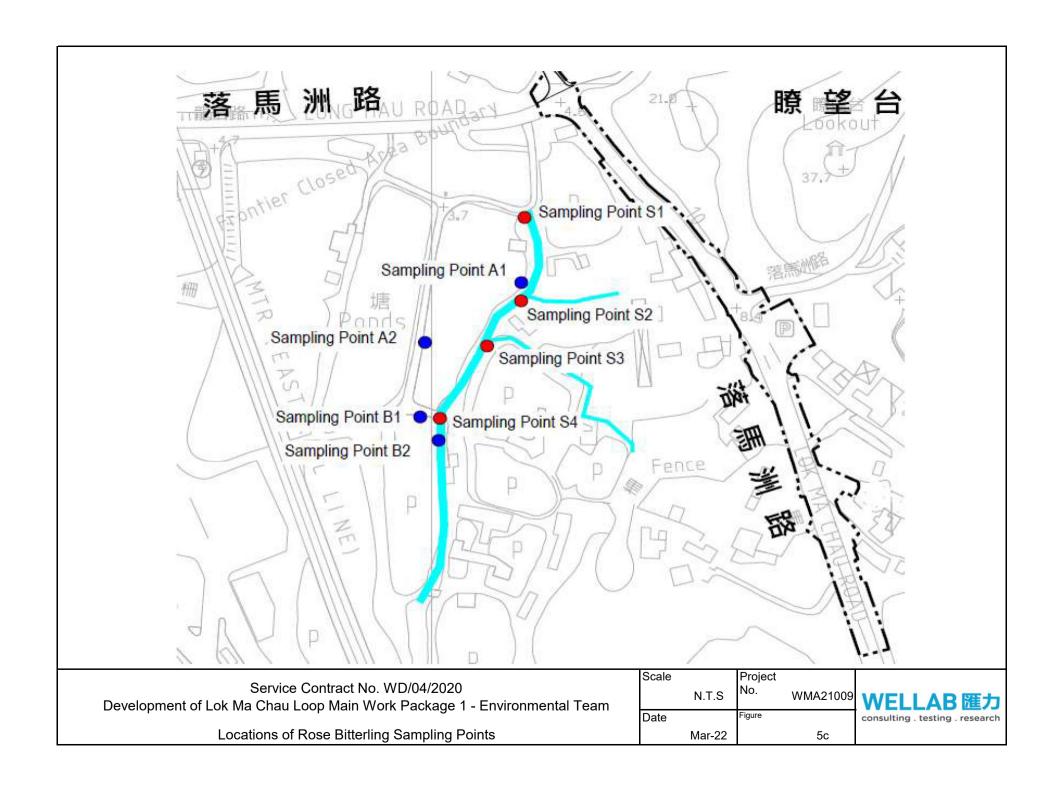












APPENDIX A ACTION AND LIMIT LEVELS

Appendix A - Action and Limit Levels

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

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

Table A-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 A-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 A-4 Action and Limit Levels for Water Quality

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

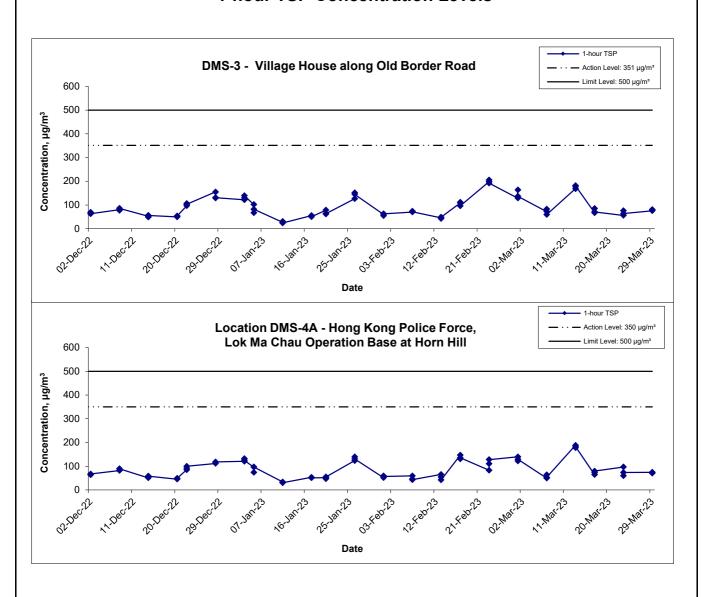
Note:

- (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 B GRAPHICAL PRESENTATION OF 1-HOUR TSP MONITORING RESULTS

1-hour TSP Concentration Levels 1-hour TSP DMS-1a - Village House along Ha Wan Tsuen East Road · - Action Level: 353 µg/m³ Limit Level: 500 µg/m³ 600 500 Concentration, µg/m³ 400 300 200 100 0 ~~iDevil 10:Dec. 22 O3-Febri Date 1-hour TSP DMS-2A - Village House along Lok Ma Chau Road Action Level: 370 µg/m 600 500 Concentration, µg/m³ 400 300 200 100 0 03/K80123 Date 1-hour TSP DMS-2B - Site boundary near · · - Action Level: 370 µg/m³ Village House along Lok Ma Chau Road Limit Level: 500 µg/m 600 500 Concentration, µg/m³ 400 300 200 100 0 08. K8D233 72×82222 Title Service Contract No. WD/04/2020 Scale Project Development of Lok Ma Chau Loop: N.T.S No. WMA21009 **WELLAB** 匯力 Main Works Package 1 - Environmental Team Date Graphical Presentation of 1-hour TSP Monitoring Results Mar 23 В

1-hour TSP Concentration Levels

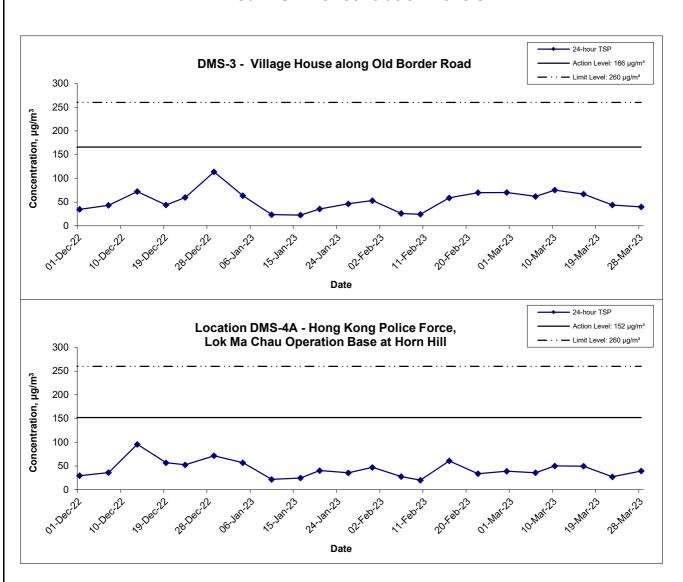


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	Development of Lok Ma Chau Loop:		N.T.S	No.	WMA21009	MELLADEL
	Main Works Package 1 - Environmental Team					WELLAB 進刀
		Date		Append	ix	consulting . testing . research
	Graphical Presentation of 1-hour TSP Monitoring Results		Mar 23		В	

APPENDIX C GRAPHICAL PRESENTATION OF 24-HOUR TSP MONITORING RESULTS

24-hour TSP Concentration Levels 24-hour TSP DMS-1a - Village House along Ha Wan Tsuen East Road Action Level: 184 µg/m³ - Limit Level: 260 μg/m³ 300 250 Concentration, µg/m³ 200 150 100 50 0 No. Dec. 22 Vo. Dec. Jr 28-Dec. Jr OLF 80723 Date DMS-2A - Village House along Lok Ma Chau Road Action Level: 166 µg/m³ - Limit Level: 260 μg/m³ 300 250 Concentration, µg/m³ 200 150 100 50 0 02.188023 28-Mat 23 Date DMS-2B - Site boundary near Action Level: 166 µg/m³ Village House along Lok Ma Chau Road - Limit Level: 260 µa/m³ 300 250 Concentration, µg/m³ 200 150 100 50 0 04.K80223 15.Key 73 01.Kebr23 10/K8p.13 Vorkap Jy VOKADUJ.3 No.Kabi23 No.Mar.23 Date Title Service Contract No. WD/04/2020 Scale Project Development of Lok Ma Chau Loop: N.T.S No. WMA21009 Main Works Package 1 - Environmental Team Date Graphical Presentation of 24-hour TSP Monitoring Results Mar 23 С

24-hour TSP Concentration Levels



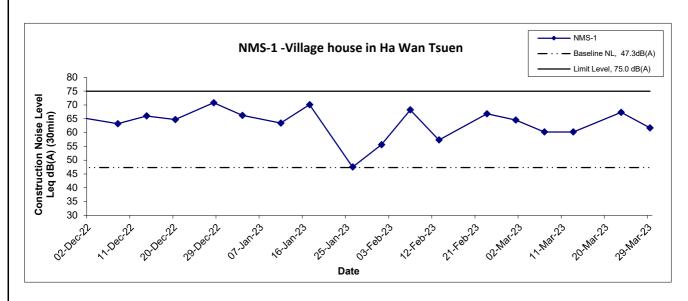
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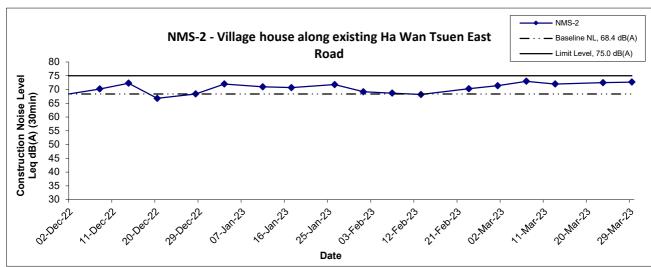
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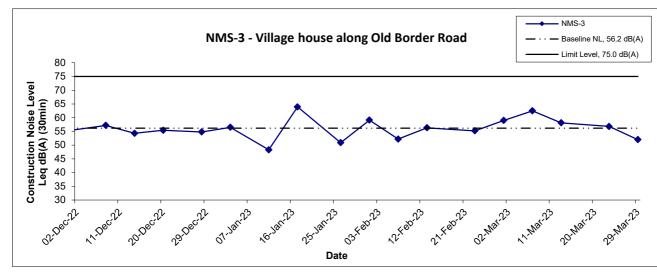


APPENDIX D GRAPHICAL PRESENTATION OF NOISE MONITORING RESULTS

Noise Levels







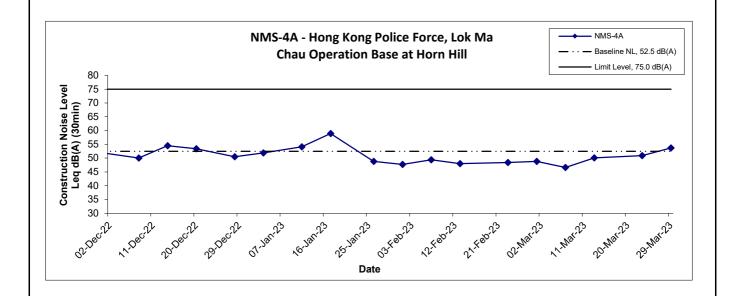
Title Service Contract No. WD/04/2020
Development of Lok Ma Chau Loop:
Main Works Package 1 - Environmental Team
Graphical Presentation of Construction Noise Monitoring
Results

Scale Project
N.T.S No. WMA21009

Date Appendix D

WELLAB 匯力 consulting . testing . research

Noise Levels



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

Scale Project
N.T.S No. WMA21009

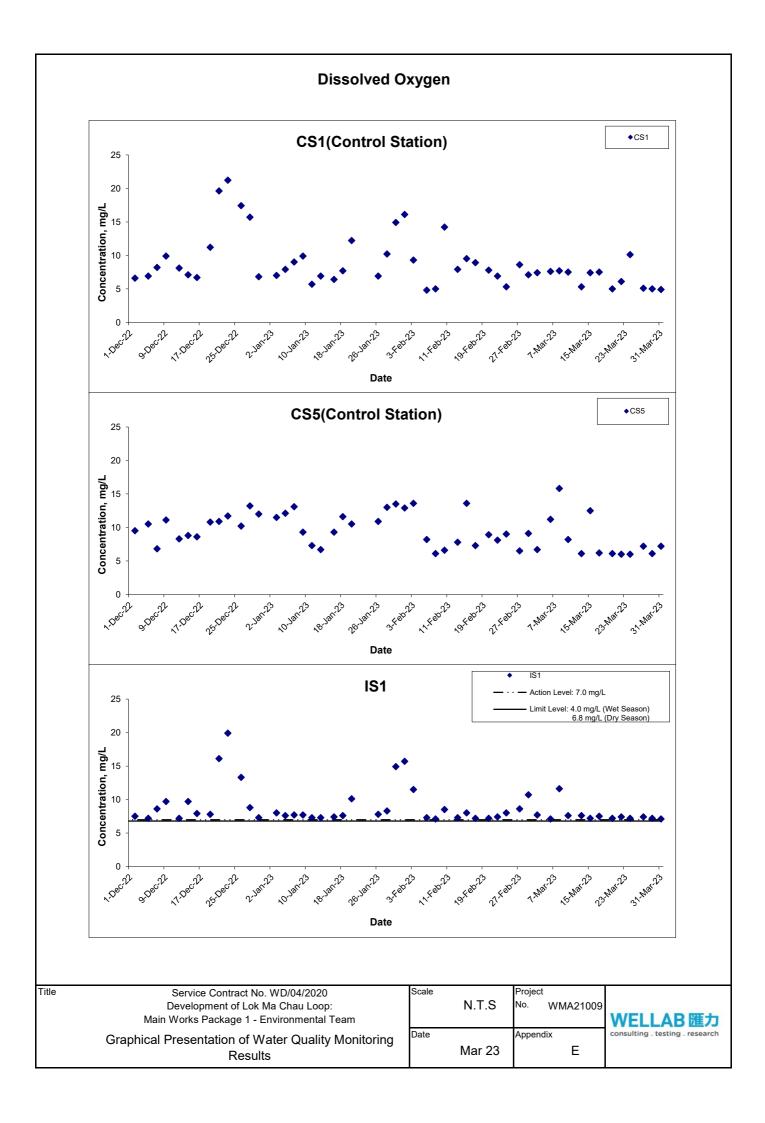
Date Appendix

D

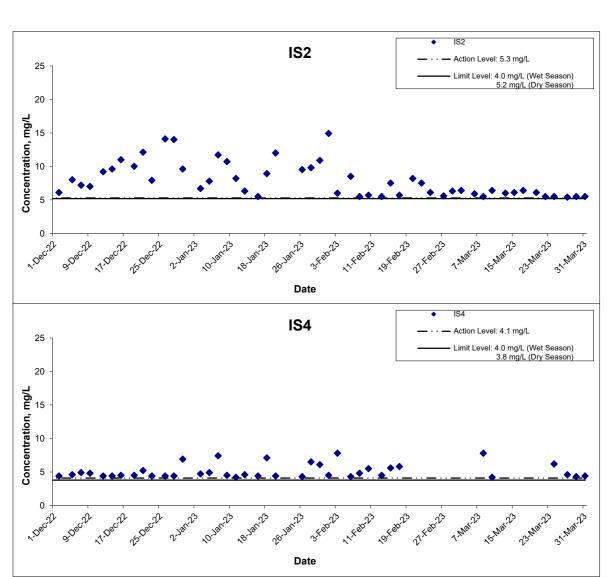
Mar 23

WELLAB 匯力 consulting . testing . research

APPENDIX E GRAPHICAL PRESENTATION OF WATER QUALITY MONITORING RESULTS



Dissolved Oxygen



Title Se

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

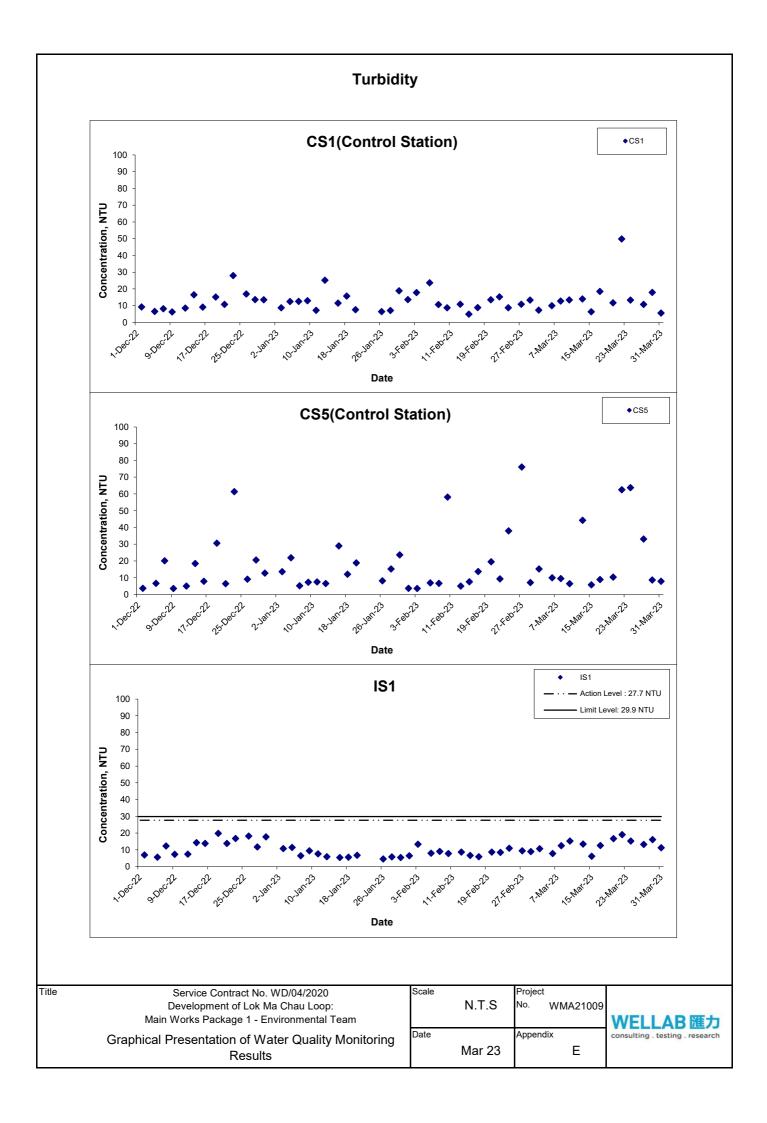
Graphical Presentation of Water Quality Monitoring Results

Scale	N.T.S	Projec No.	ct WMA21009
Date		Appei	ndix

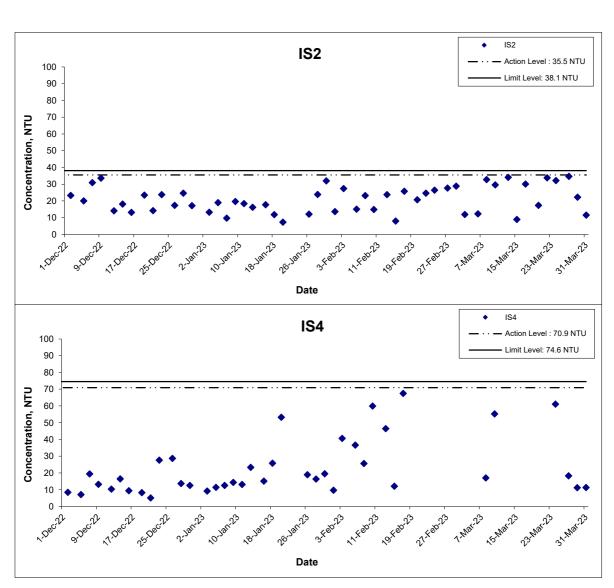
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Mar 23





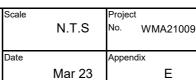
Turbidity



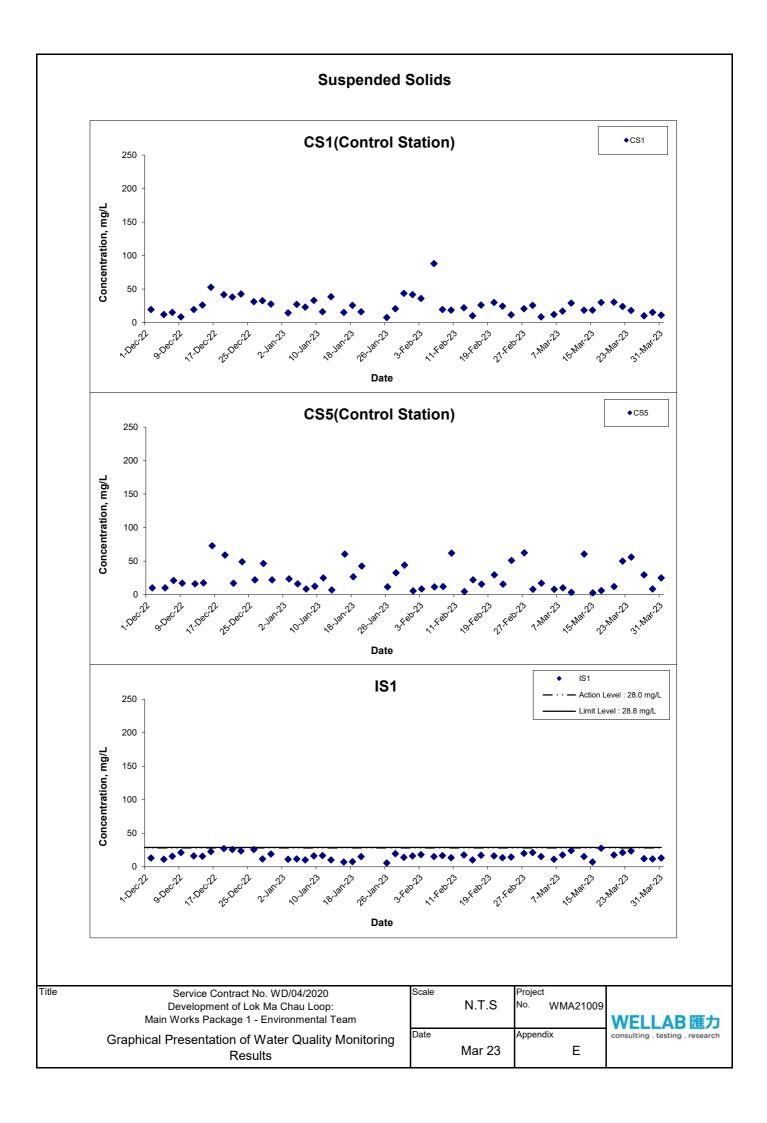
Title

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

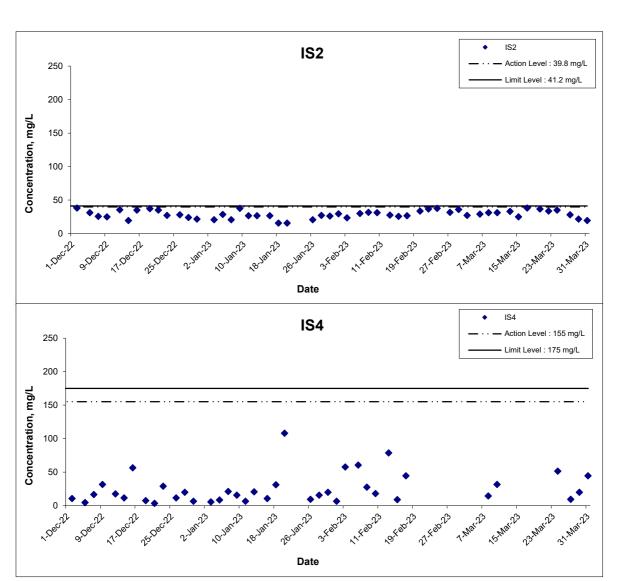
Graphical Presentation of Water Quality Monitoring Results







Suspended Solids



Title

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

Scale Project
No. WMA21009

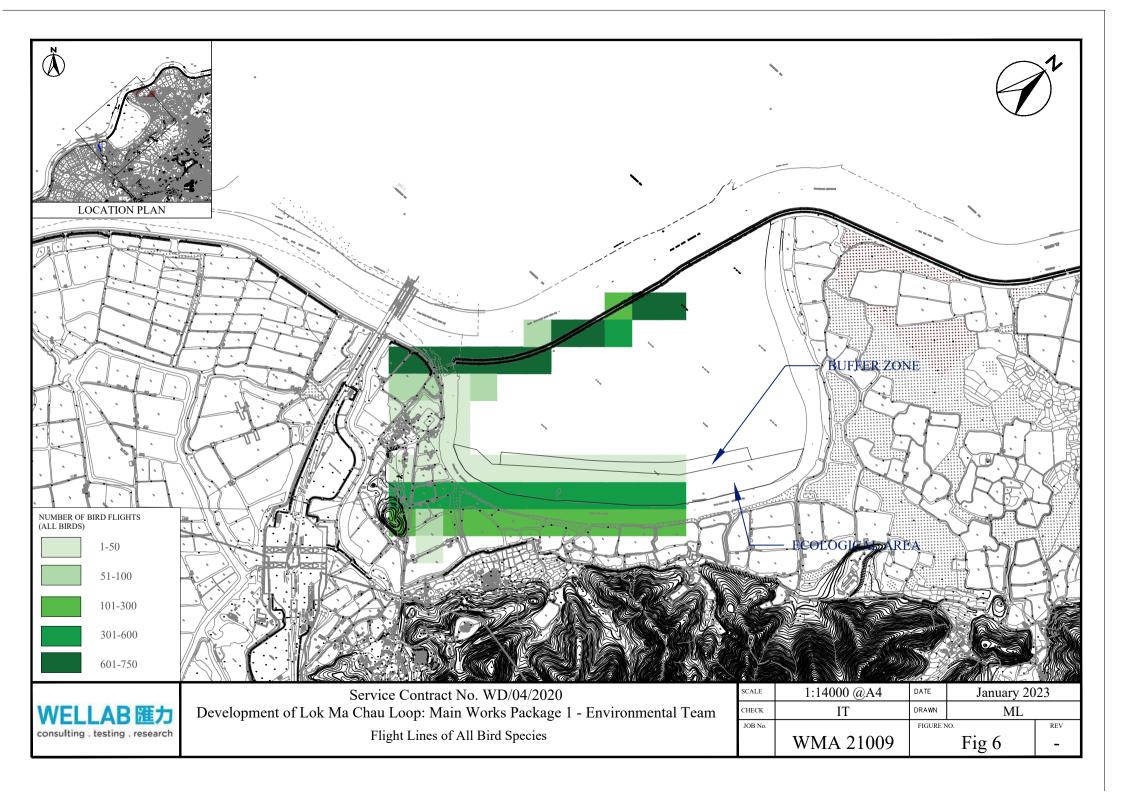
Date Appendix

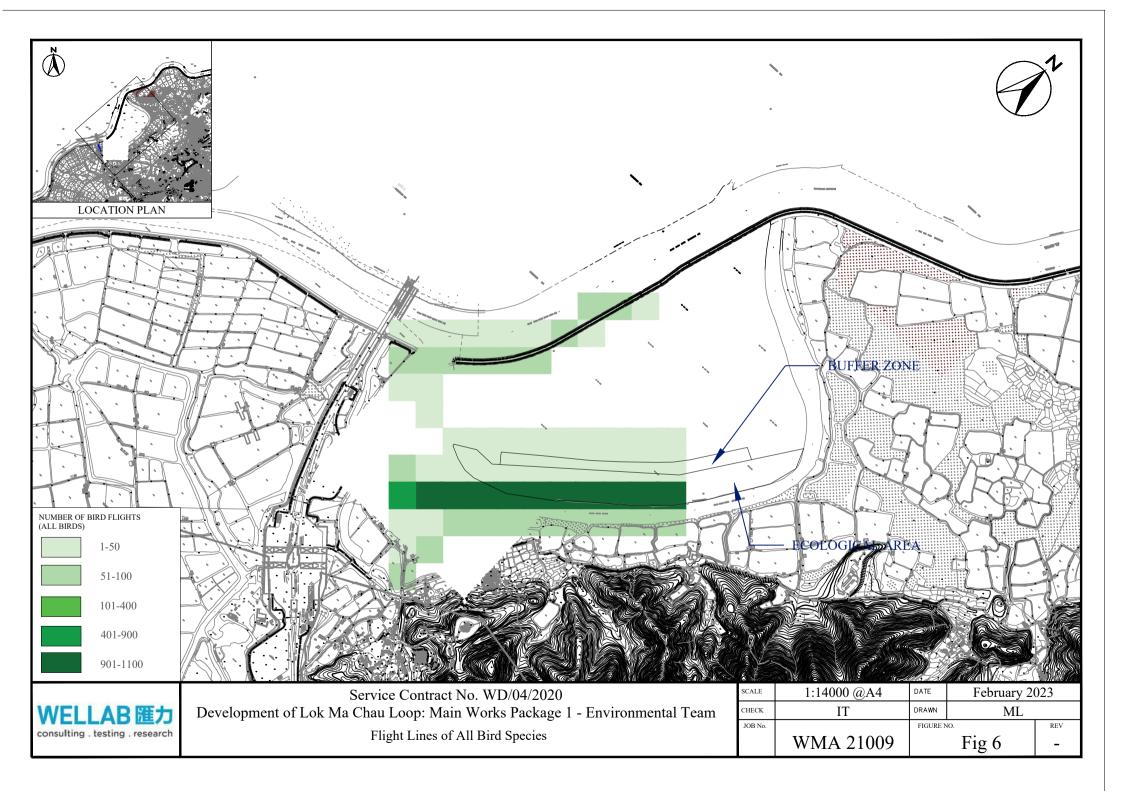
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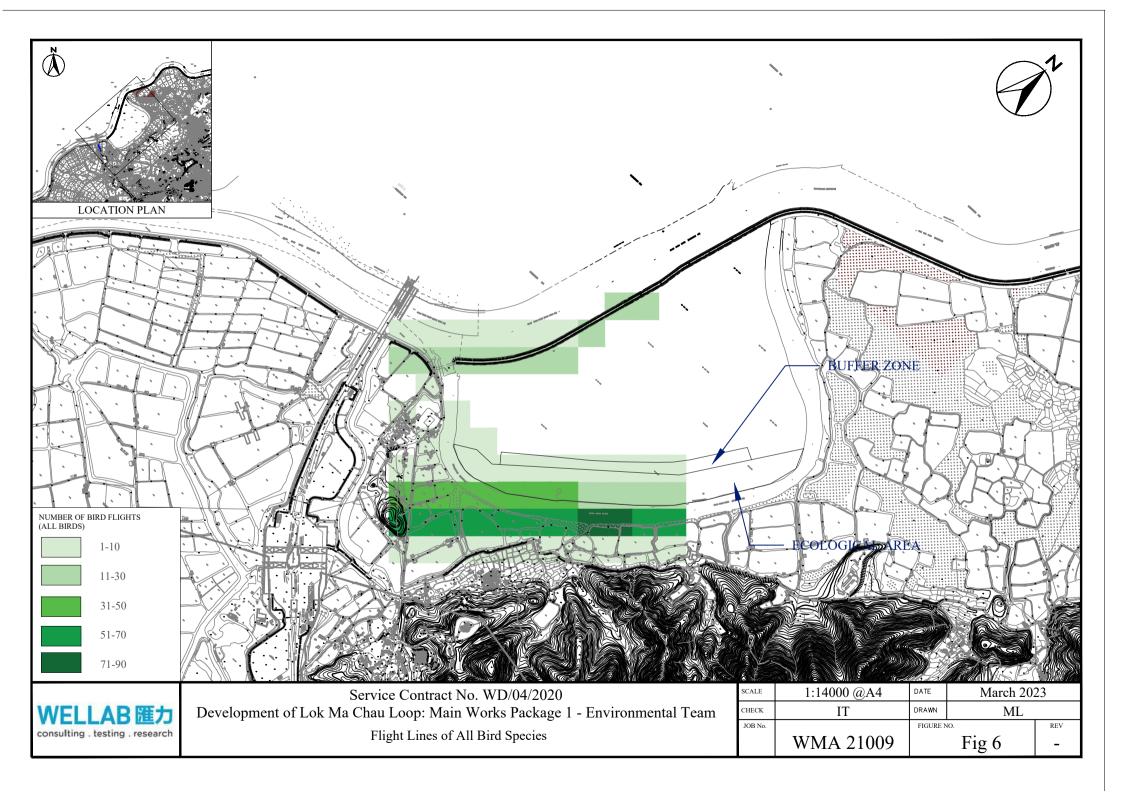
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APPENDIX F DISTRIBUTION OF FLIGHT LINE USAGE







APPENDIX G WEATHER CONDITION

APPENDIX G – GENERAL WEATHER CONDITIONS DURING THE MONITORING PERIOD

Date	Mean Air Temperature (°C)	Mean Relative Humidity (%)	Precipitation (mm)
1 January 2023	19.3	65	0.1
2 January 2023	21.6	65	Trace
3 January 2023	19.2	69	Trace
4 January 2023	19.9	74	Trace
5 January 2023	21.4	77	0.0
6 January 2023	23.4	62	0.0
7 January 2023	21.3	59	0.0
8 January 2023	20.0	57	Trace
9 January 2023	21.4	72	0.1
10 January 2023	19.0	91	5.5
11 January 2023	19.1	87	3.2
12 January 2023	19.6	88	0.5
13 January 2023	23.9	93	4.5
14 January 2023	24.7	90	3.4
15 January 2023	21.6	80	Trace
16 January 2023	13.2	66	0.0

Date	Mean Air Temperature (°C)	Mean Relative	Precipitation
	•	Humidity (%)	(mm)
17 January 2023	15.2	71	0.0
18 January 2023	17.1	58	0.0
19 January 2023	18.7	63	0.0
20 January 2023	20.9	62	Trace
21 January 2023	18.8	79	Trace
22 January 2023	22.4	83	0.6
23 January 2023	21.1	86	0.0
24 January 2023	18.7	51	0.3
25 January 2023	14.4	54	0.0
26 January 2023	18.6	66	0.0
27 January 2023	17.3	46	0.0
28 January 2023	15.7	28	0.0
29 January 2023	16.0	35	0.0
30 January 2023	18.8	48	0.0
31 January 2023	20.1	61	0.0

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

Date	Time	Wind Speed m/s	Direction
3-Jan-2023	14:00	0.0	SSE
3-Jan-2023	15:00	0.0	SSW
3-Jan-2023	16:00	0.4	SSW
3-Jan-2023	17:00	0.4	SSW
3-Jan-2023	18:00	0.4	SSW
3-Jan-2023	19:00	0.4	SSW
3-Jan-2023	20:00	0.0	SSW
3-Jan-2023	21:00	0.4	SSW
3-Jan-2023	22:00	0.4	SSW
3-Jan-2023	23:00	0.4	SSW
4-Jan-2023	0:00	0.0	SSW
4-Jan-2023	1:00	0.0	SSE
4-Jan-2023 4-Jan-2023	2:00	0.0	SSW
		0.0	SSW
4-Jan-2023 4-Jan-2023	3:00 4:00	0.4	SSW
			SSW
4-Jan-2023	5:00	0.0	
4-Jan-2023	6:00	0.0	SSW
4-Jan-2023	7:00	0.4	SSW
4-Jan-2023	8:00	0.4	SSW
4-Jan-2023	9:00	0.4	SSW
4-Jan-2023	10:00	0.4	SSW
4-Jan-2023	11:00	0.4	SSW
4-Jan-2023	12:00	0.4	SSW
4-Jan-2023	13:00	0.4	SSE
4-Jan-2023	14:00	0.0	SSE
4-Jan-2023	15:00	0.0	SSE
4-Jan-2023	16:00	0.0	SSW
4-Jan-2023	17:00	0.0	SSW
4-Jan-2023	18:00	0.0	SW
4-Jan-2023	19:00	0.4	WSW
4-Jan-2023	20:00	0.0	W
4-Jan-2023	21:00	0.0	
4-Jan-2023	22:00	0.0	
4-Jan-2023	23:00	0.0	SW
5-Jan-2023	0:00	0.0	
5-Jan-2023	1:00	0.0	
5-Jan-2023	2:00	0.0	SW
5-Jan-2023	3:00	0.0	SSW
5-Jan-2023	4:00	0.0	SSW
5-Jan-2023	5:00	0.0	WSW
5-Jan-2023	6:00	0.0	SW
5-Jan-2023	7:00	0.0	SW
5-Jan-2023	8:00	0.0	WSW
5-Jan-2023	9:00	0.0	SSW
5-Jan-2023	10:00	0.0	SSW
5-Jan-2023	11:00	0.0	SSE
5-Jan-2023	12:00	0.4	SSE
5-Jan-2023	13:00	0.4	SSW
5-Jan-2023	14:00	0.4	SSW
5-Jan-2023	15:00	0.0	SSW
5-Jan-2023	16:00	0.0	SSW
5-Jan-2023	17:00	0.0	NE NE
5-Jan-2023	18:00	0.0	
5-Jan-2023	19:00	0.0	W
5-Jan-2023	20:00	1.3	WSW
J-Jail-2023	20.00	1.3	VVOVV

Date	Time	Wind Speed m/s	Direction
5-Jan-2023	21:00	0.9	WSW
5-Jan-2023	22:00	0.9	WSW
5-Jan-2023	23:00	0.0	WSW
6-Jan-2023	0:00	0.0	
6-Jan-2023	1:00	0.0	
6-Jan-2023	2:00	0.0	
6-Jan-2023	3:00	0.4	W
6-Jan-2023	4:00	0.0	WSW
6-Jan-2023	5:00	0.0	
6-Jan-2023	6:00	0.0	
6-Jan-2023	7:00	0.0	SSW
6-Jan-2023	8:00	0.4	SSW
6-Jan-2023	9:00	0.9	SSW
6-Jan-2023	10:00	0.9	SSW
6-Jan-2023	11:00	0.9	SSW
6-Jan-2023	12:00	0.4	SSW
6-Jan-2023	13:00	0.9	SSW
6-Jan-2023	14:00	0.9	SSW
6-Jan-2023	15:00	0.4	SSW
6-Jan-2023	16:00	0.9	SSW
6-Jan-2023	17:00		SSE
		0.4	
6-Jan-2023	18:00	0.0	SSW
6-Jan-2023	19:00	0.0	SSW
6-Jan-2023	20:00	0.0	SW
6-Jan-2023	21:00	0.0	WSW
6-Jan-2023	22:00	0.0	SSW
6-Jan-2023	23:00	0.0	SSW
7-Jan-2023	0:00	0.0	SSW
7-Jan-2023	1:00	0.0	S
7-Jan-2023	2:00	0.0	SSW
7-Jan-2023	3:00	0.0	SSW
7-Jan-2023	4:00	0.0	SSW
7-Jan-2023	5:00	0.0	SSW
7-Jan-2023	6:00	0.4	SSW
7-Jan-2023	7:00	0.4	SSW
7-Jan-2023	8:00	0.4	SSW
7-Jan-2023	9:00	0.4	SSW
7-Jan-2023	10:00	0.4	SSW
7-Jan-2023	11:00	0.4	SSW
7-Jan-2023	12:00	0.4	SSW
7-Jan-2023	13:00	0.4	SW
7-Jan-2023	14:00	0.9	SSW
7-Jan-2023	15:00	0.4	SW
7-Jan-2023	16:00	0.0	SW
7-Jan-2023	17:00	0.0	WNW
7-Jan-2023	18:00	0.0	WSW
7-Jan-2023	19:00	0.0	SW
7-Jan-2023	20:00	0.4	SW
7-Jan-2023	21:00	0.4	SSW
7-Jan-2023	22:00	0.4	SSW
7-Jan-2023	23:00	0.0	SSW
8-Jan-2023	0:00	0.4	SSW
8-Jan-2023	1:00	0.4	SSW
8-Jan-2023	2:00	0.4	SSW
8-Jan-2023	3:00	0.4	SSW

Date	Time	Wind Speed m/s	Direction
8-Jan-2023	4:00	0.4	SSW
8-Jan-2023	5:00	0.4	SSW
8-Jan-2023	6:00	0.4	SSW
8-Jan-2023	7:00	0.4	WSW
8-Jan-2023	8:00	0.4	W
8-Jan-2023	9:00	0.0	SW
8-Jan-2023	10:00	0.4	SW
8-Jan-2023	11:00	0.0	SW
8-Jan-2023	12:00	0.4	SSW
8-Jan-2023	13:00	0.4	SW
8-Jan-2023	14:00	0.9	SSW
8-Jan-2023	15:00	0.9	SW
8-Jan-2023	16:00	0.4	SSW
			SW
8-Jan-2023	17:00	0.4	SW
8-Jan-2023	18:00	0.4	
8-Jan-2023	19:00	0.4	SW
8-Jan-2023	20:00	0.4	WSW
8-Jan-2023	21:00	0.4	WSW
8-Jan-2023	22:00	0.0	WSW
8-Jan-2023	23:00	0.0	WSW
9-Jan-2023	0:00	0.0	
9-Jan-2023	1:00	0.0	
9-Jan-2023	2:00	0.0	
9-Jan-2023	3:00	0.0	WSW
9-Jan-2023	4:00	0.0	WSW
9-Jan-2023	5:00	0.0	SSW
9-Jan-2023	6:00	0.4	SSW
9-Jan-2023	7:00	0.4	WSW
9-Jan-2023	8:00	0.0	SSW
9-Jan-2023	9:00	0.0	SW
9-Jan-2023	10:00	0.0	SSW
9-Jan-2023	11:00	0.0	S
9-Jan-2023	12:00	0.0	SSW
9-Jan-2023	13:00	0.0	SSW
9-Jan-2023	14:00	0.0	SSW
9-Jan-2023	15:00	0.0	SSE
9-Jan-2023	16:00	0.0	SSE
9-Jan-2023	17:00	0.0	SSE
9-Jan-2023	18:00	0.4	SSW
9-Jan-2023	19:00	0.0	SSE
9-Jan-2023	20:00	0.4	SSW
9-Jan-2023	21:00	0.4	SSW
9-Jan-2023	22:00	0.0	SSW
9-Jan-2023	23:00	0.0	SSW
10-Jan-2023	0:00	0.4	SSW
10-Jan-2023	1:00	0.0	WSW
10-Jan-2023	2:00	0.0	SSW
10-Jan-2023	3:00	0.0	SSVV
10-Jan-2023	4:00	0.0	S
	5:00	0.0	SSW
10-Jan-2023			
10-Jan-2023	6:00	0.0	SSW
10-Jan-2023	7:00	0.0	SSW
10-Jan-2023	8:00	0.0	SSW
10-Jan-2023	9:00	0.4	SSW
10-Jan-2023	10:00	0.0	SSW

Date	Time	Wind Speed m/s	Direction
10-Jan-2023	11:00	0.0	SSW
10-Jan-2023	12:00	0.4	SSW
10-Jan-2023	13:00	0.0	SSW
10-Jan-2023	14:00	0.0	SSW
10-Jan-2023	15:00	0.0	SSW
10-Jan-2023	16:00	0.0	SSW
10-Jan-2023	17:00	0.0	SSW
10-Jan-2023	18:00	0.0	SSW
10-Jan-2023	19:00	0.0	SSW
10-Jan-2023	20:00	0.0	SSW
10-Jan-2023	21:00	0.4	SSW
10-Jan-2023	22:00	0.0	SSW
10-Jan-2023	23:00	0.0	SSW
11-Jan-2023	0:00	0.0	SSW
11-Jan-2023	1:00	0.0	
11-Jan-2023	2:00	0.0	SW
11-Jan-2023	3:00	0.0	SSW
11-Jan-2023	4:00	0.0	SSW
11-Jan-2023	5:00	0.9	SSW
11-Jan-2023 11-Jan-2023	6:00	0.4	SSW
	7:00	0.0	
11-Jan-2023			
11-Jan-2023	8:00	0.0	
11-Jan-2023	9:00	0.0	SSW
11-Jan-2023	10:00	0.0	SSW
11-Jan-2023	11:00	0.4	SSW
11-Jan-2023	12:00	0.4	SSW
11-Jan-2023	13:00	0.0	SSW
11-Jan-2023	14:00	0.0	SSW
11-Jan-2023	15:00	0.4	SW
11-Jan-2023	16:00	0.4	SSW
11-Jan-2023	17:00	0.9	SSW
11-Jan-2023	18:00	0.4	SW
11-Jan-2023	19:00	0.4	SW
11-Jan-2023	20:00	0.0	SW
11-Jan-2023	21:00	0.4	SW
11-Jan-2023	22:00	0.0	SSW
11-Jan-2023	23:00	0.0	SW
12-Jan-2023	0:00	0.4	SSW
12-Jan-2023	1:00	0.4	SSW
12-Jan-2023	2:00	0.4	SSW
12-Jan-2023	3:00	0.9	SSW
12-Jan-2023	4:00	1.3	SW
12-Jan-2023	5:00	0.9	SSW
12-Jan-2023	6:00	1.3	SSW
12-Jan-2023	7:00	1.3	SSW
12-Jan-2023	8:00	1.3	SW
12-Jan-2023	9:00	0.9	SW
12-Jan-2023	10:00	0.9	SSW
12-Jan-2023	11:00	0.9	WSW
12-Jan-2023	12:00	0.4	WSW
12-Jan-2023	13:00	0.9	WSW
12-Jan-2023	14:00	0.4	WSW
12-Jan-2023	15:00	0.4	SSW
12-Jan-2023	16:00	0.4	SSW
12-Jan-2023	17:00	0.4	SW
L	· · · · · · · · · · · · · · · · · · ·		

Appendix G

Date	Time	Wind Speed m/s	Direction
12-Jan-2023	18:00	0.0	SSW
12-Jan-2023	19:00	0.0	SSW
12-Jan-2023	20:00	0.4	SW
12-Jan-2023	21:00	0.4	WSW
12-Jan-2023	22:00	0.9	WSW
12-Jan-2023	23:00	0.4	WSW
13-Jan-2023	0:00	0.4	SW
13-Jan-2023	1:00	0.9	WSW
13-Jan-2023	2:00	0.9	WSW
	3:00	0.0	WSW
13-Jan-2023	4:00	0.0	SSW
13-Jan-2023			
13-Jan-2023	5:00	0.4	SSW
13-Jan-2023	6:00	0.0	WSW
13-Jan-2023	7:00	0.0	WSW
13-Jan-2023	8:00	0.4	WSW
13-Jan-2023	9:00	0.4	W
13-Jan-2023	10:00	0.0	WSW
13-Jan-2023	11:00	0.0	SSW
13-Jan-2023	12:00	0.0	W
13-Jan-2023	13:00	0.0	
13-Jan-2023	14:00	0.0	NNE
13-Jan-2023	15:00	0.0	
13-Jan-2023	16:00	0.0	NE
13-Jan-2023	17:00	0.0	ENE
13-Jan-2023	18:00	0.0	
13-Jan-2023	19:00	0.0	
13-Jan-2023	20:00	0.0	
13-Jan-2023	21:00	0.0	
13-Jan-2023	22:00	0.0	WNW
13-Jan-2023	23:00	0.0	NE
14-Jan-2023	0:00	0.0	
14-Jan-2023	1:00	0.0	NE
14-Jan-2023	2:00	0.0	
14-Jan-2023	3:00	0.0	
14-Jan-2023	4:00	0.0	
14-Jan-2023	5:00	0.0	
14-Jan-2023	6:00	0.0	WNW
14-Jan-2023	7:00	0.0	V V I N V V
	8:00		WSW
14-Jan-2023 14-Jan-2023	9:00	0.0	WSW
14-Jan-2023	10:00	0.0	WSW
14-Jan-2023	11:00	0.0	 NE
14-Jan-2023	12:00	0.4	NE NE
14-Jan-2023	13:00	0.9	NE NE
14-Jan-2023	14:00	1.3	NE
14-Jan-2023	15:00	1.3	NE
14-Jan-2023	16:00	0.9	NE
14-Jan-2023	17:00	0.4	NE
14-Jan-2023	18:00	0.0	NE
14-Jan-2023	19:00	0.0	
14-Jan-2023	20:00	0.0	
14-Jan-2023	21:00	0.0	
14-Jan-2023	22:00	0.0	WNW
14-Jan-2023	23:00	0.0	SW
15-Jan-2023	0:00	0.0	
10 04.1 2020	3.00	0.0	

Date	Time	Wind Speed m/s	Direction
15-Jan-2023	1:00	0.0	WNW
15-Jan-2023	2:00	0.0	W
15-Jan-2023	3:00	0.0	W
15-Jan-2023	4:00	0.0	
15-Jan-2023	5:00	0.0	
15-Jan-2023	6:00	0.0	
15-Jan-2023	7:00	0.0	SSE
15-Jan-2023	8:00	0.0	SSW
15-Jan-2023	9:00	0.0	SSE
15-Jan-2023	10:00	0.4	SSW
15-Jan-2023	11:00	0.9	SSE
15-Jan-2023	12:00	0.4	SSE
15-Jan-2023	13:00	0.4	SSW
15-Jan-2023	14:00	0.9	SSW
15-Jan-2023	15:00	0.9	SSW
15-Jan-2023	16:00	0.9	SSW
15-Jan-2023	17:00	0.9	SSW
15-Jan-2023	18:00	0.9	SSW
15-Jan-2023	19:00	0.4	SSW
15-Jan-2023	20:00	0.9	SSW
15-Jan-2023	21:00	0.9	SSW
15-Jan-2023	22:00	0.4	SSW
15-Jan-2023	23:00	0.4	SSW
16-Jan-2023	0:00	0.4	SSW
16-Jan-2023	1:00	0.4	SSW
16-Jan-2023	2:00	0.4	SSW
16-Jan-2023	3:00	0.4	SSW
16-Jan-2023	4:00	0.4	SSW
16-Jan-2023	5:00	0.4	SSW
16-Jan-2023	6:00	0.4	SSW
16-Jan-2023	7:00	0.4	SSW
16-Jan-2023	8:00	0.4	SSW
16-Jan-2023	9:00	0.4	SSW
16-Jan-2023	10:00	0.4	SSW
16-Jan-2023	11:00	0.0	SSW
16-Jan-2023	12:00	0.0	SSW
16-Jan-2023	13:00	0.0	SSE
16-Jan-2023	14:00	0.4	SSW
16-Jan-2023	15:00	0.4	SSE
16-Jan-2023	16:00	0.0	SSW
16-Jan-2023	17:00	0.0	SSW
16-Jan-2023	18:00	0.0	SSW
16-Jan-2023	19:00	0.0	SSW
16-Jan-2023	20:00	0.0	SSW
16-Jan-2023	21:00	0.0	SSE
16-Jan-2023	22:00	0.0	SSW
16-Jan-2023	23:00	0.0	SSW
17-Jan-2023	0:00	0.4	SSW
17-Jan-2023 17-Jan-2023	1:00	0.4	SSE
	2:00	0.4	SSW
17-Jan-2023			SSW
17-Jan-2023	3:00	0.0	SSW
17-Jan-2023	4:00	0.4	
17-Jan-2023	5:00	0.0	SSE
17-Jan-2023	6:00	0.0	SSW SSW
17-Jan-2023	7:00	0.0	5511

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19-Jan-2023 5:00 0.0 19-Jan-2023 6:00 0.0 19-Jan-2023 7:00 0.0 19-Jan-2023 8:00 0.0 19-Jan-2023 9:00 0.0 SSW 19-Jan-2023 10:00 0.0 SSE 19-Jan-2023 11:00 0.0 SSE 19-Jan-2023 12:00 0.0 SSE 19-Jan-2023 13:00 0.0 SSE		I .		
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19-Jan-2023 7:00 0.0 19-Jan-2023 8:00 0.0 19-Jan-2023 9:00 0.0 SSW 19-Jan-2023 10:00 0.0 SSE 19-Jan-2023 11:00 0.0 SSE 19-Jan-2023 12:00 0.0 SSE 19-Jan-2023 13:00 0.0 SSE				
19-Jan-2023 8:00 0.0 19-Jan-2023 9:00 0.0 SSW 19-Jan-2023 10:00 0.0 SSE 19-Jan-2023 11:00 0.0 SSE 19-Jan-2023 12:00 0.0 SSE 19-Jan-2023 13:00 0.0 SSE				
19-Jan-2023 9:00 0.0 SSW 19-Jan-2023 10:00 0.0 SSE 19-Jan-2023 11:00 0.0 SSE 19-Jan-2023 12:00 0.0 SSE 19-Jan-2023 13:00 0.0 SSE				
19-Jan-2023 10:00 0.0 SSE 19-Jan-2023 11:00 0.0 SSE 19-Jan-2023 12:00 0.0 SSE 19-Jan-2023 13:00 0.0 SSE				
19-Jan-2023 11:00 0.0 SSE 19-Jan-2023 12:00 0.0 SSE 19-Jan-2023 13:00 0.0 SSE				
19-Jan-2023 12:00 0.0 SSE 19-Jan-2023 13:00 0.0 SSE				
19-Jan-2023 13:00 0.0 SSE	19-Jan-2023		0.0	
	19-Jan-2023	12:00	0.0	SSE
19-Jan-2023 14:00 0.0 SSE		13:00	0.0	
	19-Jan-2023	14:00	0.0	SSE

Date	Time	Wind Speed m/s	Direction
19-Jan-2023	15:00	0.0	SSE
19-Jan-2023	16:00	0.0	NE
19-Jan-2023	17:00	0.0	NE
19-Jan-2023	18:00	0.0	
19-Jan-2023	19:00	0.0	
19-Jan-2023	20:00	0.0	
19-Jan-2023	21:00	0.0	
19-Jan-2023	22:00	0.0	
19-Jan-2023	23:00	0.0	
20-Jan-2023	0:00	0.0	
20-Jan-2023 20-Jan-2023	1:00	0.0	
	2:00	0.0	
20-Jan-2023	3:00	0.0	
20-Jan-2023			
20-Jan-2023	4:00	0.0	SSW
20-Jan-2023	5:00	0.4	SSW
20-Jan-2023	6:00	0.4	SSW
20-Jan-2023	7:00	0.4	SSW
20-Jan-2023	8:00	0.4	SSW
20-Jan-2023	9:00	0.4	SSW
20-Jan-2023	10:00	0.9	SSW
20-Jan-2023	11:00	0.4	SSW
20-Jan-2023	12:00	0.0	SSW
20-Jan-2023	13:00	0.0	SSE
20-Jan-2023	14:00	0.0	SSE
20-Jan-2023	15:00	0.0	SSE
20-Jan-2023	16:00	0.0	SSE
20-Jan-2023	17:00	0.0	SSE
20-Jan-2023	18:00	0.0	
20-Jan-2023	19:00	0.0	
20-Jan-2023	20:00	0.0	
20-Jan-2023	21:00	0.0	WSW
20-Jan-2023	22:00	0.0	WSW
20-Jan-2023	23:00	0.0	
21-Jan-2023	0:00	0.0	W
21-Jan-2023	1:00	0.0	SSW
21-Jan-2023	2:00	0.0	SSW
21-Jan-2023	3:00	0.0	
21-Jan-2023	4:00	0.0	SW
21-Jan-2023	5:00	0.0	SW
21-Jan-2023	6:00	0.0	SSW
21-Jan-2023	7:00	0.0	SSW
21-Jan-2023	8:00	0.0	SSW
21-Jan-2023	9:00	0.0	SSW
21-Jan-2023	10:00	0.0	SSW
21-Jan-2023	11:00	0.4	SW
21-Jan-2023	12:00	0.4	SSW
21-Jan-2023 21-Jan-2023	13:00	0.4	SSW
21-Jan-2023	14:00	0.9	SSW
21-Jan-2023 21-Jan-2023	15:00	0.9	SSW
	16:00	0.4	SW
21-Jan-2023			
21-Jan-2023	17:00	0.4	SSW
21-Jan-2023	18:00	0.4	SSW
21-Jan-2023	19:00	0.4	SSW
21-Jan-2023	20:00	0.0	SW
21-Jan-2023	21:00	0.0	SSW

Date	Time	Wind Speed m/s	Direction
21-Jan-2023	22:00	0.0	SSW
21-Jan-2023	23:00	0.4	SSW
22-Jan-2023	0:00	0.0	SSW
22-Jan-2023	1:00	0.0	SSW
22-Jan-2023	2:00	0.4	WSW
22-Jan-2023	3:00	0.0	SW
22-Jan-2023	4:00	0.0	SW
22-Jan-2023	5:00	0.0	WSW
22-Jan-2023	6:00	0.0	SSW
22-Jan-2023	7:00	0.0	SSW
22-Jan-2023	8:00	0.0	WSW
22-Jan-2023	9:00	0.0	WSW
22-Jan-2023	10:00	0.0	SSW
22-Jan-2023	11:00	0.0	SSE
22-Jan-2023 22-Jan-2023	12:00	0.0	SSW
22-Jan-2023 22-Jan-2023	13:00	0.0	SSE
22-Jan-2023 22-Jan-2023	14:00	0.0	SSE
22-Jan-2023 22-Jan-2023	15:00	0.0	SSE
22-Jan-2023	16:00	0.4	WSW
22-Jan-2023	17:00	0.4	NE NE
22-Jan-2023	18:00	0.0	NE
22-Jan-2023	19:00	0.0	
22-Jan-2023	20:00	0.0	SSW
22-Jan-2023	21:00	0.0	SSW
22-Jan-2023	22:00	0.0	SW
22-Jan-2023	23:00	0.0	SSW
23-Jan-2023	0:00	0.0	
23-Jan-2023	1:00	0.4	WSW
23-Jan-2023	2:00	0.0	SW
23-Jan-2023	3:00	0.0	
23-Jan-2023	4:00	0.0	
23-Jan-2023	5:00	0.0	
23-Jan-2023	6:00	0.0	SW
23-Jan-2023	7:00	0.0	
23-Jan-2023	8:00	0.0	
23-Jan-2023	9:00	0.0	WSW
23-Jan-2023	10:00	0.0	
23-Jan-2023	11:00	0.0	NE
23-Jan-2023	12:00	0.0	NNE
23-Jan-2023	13:00	0.4	NE
23-Jan-2023	14:00	0.4	NE
23-Jan-2023	15:00	0.4	NE
23-Jan-2023	16:00	0.9	NE
23-Jan-2023	17:00	0.0	NE
23-Jan-2023	18:00	0.0	WSW
23-Jan-2023	19:00	0.4	W
23-Jan-2023	20:00	0.4	WSW
23-Jan-2023	21:00	0.0	
23-Jan-2023	22:00	0.0	W
23-Jan-2023	23:00	0.0	W
24-Jan-2023	0:00	0.0	WSW
24-Jan-2023	1:00	0.4	SSW
24-Jan-2023	2:00	0.4	SSW
24-Jan-2023	3:00	0.9	SSW
24-Jan-2023	4:00	0.9	SSW
	1		

Date	Time	Wind Speed m/s	Direction
24-Jan-2023	5:00	0.4	SSW
24-Jan-2023	6:00	0.4	SSW
24-Jan-2023	7:00	0.4	SSW
24-Jan-2023	8:00	0.4	S
24-Jan-2023	9:00	0.4	SSE
24-Jan-2023	10:00	0.4	SSE
24-Jan-2023	11:00	1.3	SSW
24-Jan-2023	12:00	0.9	SSW
24-Jan-2023	13:00	0.4	SSW
24-Jan-2023	14:00	0.9	SSW
24-Jan-2023	15:00	0.9	SSW
	16:00	0.4	SSW
24-Jan-2023	17:00	0.9	SSW
24-Jan-2023			
24-Jan-2023	18:00	0.9	SSW
24-Jan-2023	19:00	0.4	SSW
24-Jan-2023	20:00	0.4	SSW
24-Jan-2023	21:00	0.4	SSW
24-Jan-2023	22:00	0.4	SSW
24-Jan-2023	23:00	0.4	SSW
25-Jan-2023	0:00	0.4	SSW
25-Jan-2023	1:00	0.4	SSE
25-Jan-2023	2:00	0.4	SSW
25-Jan-2023	3:00	0.4	SSW
25-Jan-2023	4:00	0.9	SSW
25-Jan-2023	5:00	0.4	SSW
25-Jan-2023	6:00	0.4	SSW
25-Jan-2023	7:00	0.9	SSW
25-Jan-2023	8:00	0.4	SSW
25-Jan-2023	9:00	0.4	SSW
25-Jan-2023	10:00	0.0	SSW
25-Jan-2023	11:00	0.0	SSE
25-Jan-2023	12:00	0.0	SSW
25-Jan-2023	13:00	0.0	SSE
25-Jan-2023	14:00	0.0	SSE
25-Jan-2023	15:00	0.0	SSE
25-Jan-2023	16:00	0.0	SSE
25-Jan-2023	17:00	0.0	SSW
25-Jan-2023	18:00	0.0	SSW
25-Jan-2023	19:00	0.0	SW
25-Jan-2023	20:00	0.0	WNW
25-Jan-2023	21:00	0.0	
25-Jan-2023	22:00	0.0	SW
25-Jan-2023	23:00	0.0	SSW
26-Jan-2023	0:00	0.0	SSW
26-Jan-2023	1:00	0.0	SSW
	2:00	0.0	SSW
26-Jan-2023	3:00	0.0	
26-Jan-2023			
26-Jan-2023	4:00	0.0	
26-Jan-2023	5:00	0.0	SSW
26-Jan-2023	6:00	0.0	SSW
26-Jan-2023	7:00	0.0	SSW
26-Jan-2023	8:00	0.0	SW
26-Jan-2023	9:00	0.0	SSW
26-Jan-2023	10:00	0.4	SSW
26-Jan-2023	11:00	0.4	SSW

Date	Time	Wind Speed m/s	Direction
26-Jan-2023	12:00	0.4	SSE
26-Jan-2023	13:00	0.4	SSW
26-Jan-2023	14:00	0.4	SSW
26-Jan-2023	15:00	0.4	SSW
26-Jan-2023	16:00	0.4	SSW
26-Jan-2023	17:00	0.0	WSW
26-Jan-2023	18:00	0.0	WSW
26-Jan-2023	19:00	0.4	W
26-Jan-2023	20:00	0.0	WSW
26-Jan-2023	21:00	0.0	WSW
26-Jan-2023	22:00	0.0	SW
	23:00	0.0	WSW
26-Jan-2023			
27-Jan-2023	0:00	0.0	
27-Jan-2023	1:00	0.0	
27-Jan-2023	2:00	0.0	
27-Jan-2023	3:00	0.0	WSW
27-Jan-2023	4:00	0.0	SSE
27-Jan-2023	5:00	0.9	SSW
27-Jan-2023	6:00	0.9	SSW
27-Jan-2023	7:00	0.4	SSW
27-Jan-2023	8:00	0.4	SSW
27-Jan-2023	9:00	0.4	SSE
27-Jan-2023	10:00	0.4	SSE
27-Jan-2023	11:00	0.4	SSW
27-Jan-2023	12:00	0.4	SSW
27-Jan-2023	13:00	0.4	SSW
27-Jan-2023	14:00	0.4	SSE
27-Jan-2023	15:00	0.9	SSE
27-Jan-2023	16:00	0.4	SSE
27-Jan-2023	17:00	0.4	SSE
27-Jan-2023	18:00	0.4	SSE
27-Jan-2023	19:00	0.4	SSW
27-Jan-2023	20:00	0.4	SSW
27-Jan-2023	21:00	0.4	SSW
27-Jan-2023	22:00	0.4	SSW
27-Jan-2023	23:00	0.4	SSW
28-Jan-2023	0:00	0.4	SSW
28-Jan-2023	1:00	0.4	SSW
28-Jan-2023	2:00	0.4	SSW
28-Jan-2023	3:00	0.4	SSE
28-Jan-2023	4:00	0.4	S
28-Jan-2023	5:00	0.4	SSE
28-Jan-2023	6:00	0.4	SSW
28-Jan-2023	7:00	0.4	S
28-Jan-2023	8:00	0.4	SSW
	9:00	0.4	SSW
28-Jan-2023	10:00	0.4	S
28-Jan-2023			
28-Jan-2023	11:00	0.9	SSW
28-Jan-2023	12:00	0.4	SSE
28-Jan-2023	13:00	0.9	SSE
28-Jan-2023	14:00	0.4	SSW
28-Jan-2023	15:00	0.4	SSE
28-Jan-2023	16:00	0.4	SW
28-Jan-2023	17:00	0.4	SSW
28-Jan-2023	18:00	0.0	SSW

Date	Time	Wind Speed m/s	Direction
28-Jan-2023	19:00	0.0	WSW
28-Jan-2023	20:00	0.0	WSW
28-Jan-2023	21:00	0.0	SW
28-Jan-2023	22:00	0.0	SW
28-Jan-2023	23:00	0.0	SW
29-Jan-2023	0:00	0.4	WSW
29-Jan-2023	1:00	0.0	SSW
29-Jan-2023	2:00	0.4	SSW
29-Jan-2023	3:00	0.4	SSW
29-Jan-2023	4:00	0.4	SSW
29-Jan-2023 29-Jan-2023	5:00	0.4	SSW
		0.4	SSW
29-Jan-2023	6:00 7:00		SSW
29-Jan-2023		0.4	
29-Jan-2023	8:00	0.0	SSW
29-Jan-2023	9:00	0.0	SSW
29-Jan-2023	10:00	0.0	SSW
29-Jan-2023	11:00	0.4	SSE
29-Jan-2023	12:00	0.4	SSE
29-Jan-2023	13:00	0.0	SSE
29-Jan-2023	14:00	0.0	NE
29-Jan-2023	15:00	0.0	SSE
29-Jan-2023	16:00	0.0	SSW
29-Jan-2023	17:00	0.0	SSE
29-Jan-2023	18:00	0.0	SSE
29-Jan-2023	19:00	0.0	S
29-Jan-2023	20:00	0.0	S
29-Jan-2023	21:00	0.0	WSW
29-Jan-2023	22:00	0.0	
29-Jan-2023	23:00	0.0	
30-Jan-2023	0:00	0.0	
30-Jan-2023	1:00	0.0	
30-Jan-2023	2:00	0.0	WSW
30-Jan-2023	3:00	0.0	
30-Jan-2023	4:00	0.0	
30-Jan-2023	5:00	0.0	
30-Jan-2023	6:00	0.0	
30-Jan-2023	7:00	0.0	
30-Jan-2023	8:00	0.0	
30-Jan-2023	9:00	0.0	WSW
30-Jan-2023	10:00	0.0	SSE
30-Jan-2023	11:00	0.0	SSE
30-Jan-2023	12:00	0.0	SSE
30-Jan-2023	13:00	0.4	SSE
30-Jan-2023	14:00	0.4	WSW
30-Jan-2023	15:00	0.4	SW
	16:00	0.4	WSW
30-Jan-2023 30-Jan-2023	17:00	0.4	NNE
30-Jan-2023	18:00	0.0	NE
30-Jan-2023	19:00	0.0	
30-Jan-2023	20:00	0.0	
30-Jan-2023	21:00	0.0	W
30-Jan-2023	22:00	0.0	
30-Jan-2023	23:00	0.0	
31-Jan-2023	0:00	0.0	SSW
31-Jan-2023	1:00	0.0	SSW

Appendix G - Wind Data

Date	Time	Wind Speed m/s	Direction
31-Jan-2023	2:00	0.4	SSW
31-Jan-2023	3:00	0.0	SW
31-Jan-2023	4:00	0.0	SSW
31-Jan-2023	5:00	0.9	SW
31-Jan-2023	6:00	0.4	SSW
31-Jan-2023	7:00	0.4	SW
31-Jan-2023	8:00	0.4	SW
31-Jan-2023	9:00	0.4	SSW
31-Jan-2023	10:00	0.4	SSW
31-Jan-2023	11:00	0.4	WSW
31-Jan-2023	12:00	0.4	SSW
31-Jan-2023	13:00	0.4	SSW
31-Jan-2023	14:00	0.4	WNW
31-Jan-2023	15:00	0.4	WSW
31-Jan-2023	16:00	0.4	SW
31-Jan-2023	17:00	0.4	SW
31-Jan-2023	18:00	0.0	SSW
31-Jan-2023	19:00	0.0	SSW
31-Jan-2023	20:00	0.0	
31-Jan-2023	21:00	0.0	SSW
31-Jan-2023	22:00	0.0	SW
31-Jan-2023	23:00	0.0	SSW

Remark: No wind data were collected in the period between 1 and 3 January 2023 due to the power failure.

APPENDIX G – GENERAL WEATHER CONDITIONS DURING THE MONITORING PERIOD

Date	Mean Air Temperature (°C)	Mean Relative Humidity (%)	Precipitation (mm)
1 February 2023	19.9	77	-
2 February 2023	19.4	77	-
3 February 2023	17.9	76	-
4 February 2023	17.4	81	0.4
5 February 2023	17.9	83	Trace
6 February 2023	19.2	85	0.1
7 February 2023	21	83	Trace
8 February 2023	18.5	84	Trace
9 February 2023	19.5	83	0.1
10 February 2023	21.2	87	0.1
11 February 2023	18.7	93	0.9
12 February 2023	19.9	95	Trace
13 February 2023	22.3	88	Trace
14 February 2023	18.5	64	-
15 February 2023	16.3	60	-
16 February 2023	16.8	62	-

	Quantoniy Enzon	A Report – January to Mean Relative	Precipitation
Date	Mean Air Temperature (°C)	Humidity (%)	(mm)
17 February 2023	18.7	70	-
18 February 2023	21	67	-
19 February 2023	22.8	67	Trace
20 February 2023	20.1	64	-
21 February 2023	17.8	62	-
22 February 2023	16.9	61	-
23 February 2023	18.2	70	-
24 February 2023	19.8	67	-
25 February 2023	17.1	54	-
26 February 2023	16.8	58	-
27 February 2023	16.4	60	-
28 February 2023	17.8	71	-

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

1-Feb-2023	Date	Time	Wind Speed m/s	Direction
1-Feb-2023	1-Feb-2023	0:00		
1-Feb-2023				
1-Feb-2023				SSW
1-Feb-2023				
1-Feb-2023				
1-Feb-2023 6:00 0.0 1-Feb-2023 7:00 0.0 1-Feb-2023 8:00 0.0 1-Feb-2023 9:00 2.7 SSW 1-Feb-2023 10:00 2.7 SSW 1-Feb-2023 11:00 4.5 WSW 1-Feb-2023 12:00 3.6 WNW 1-Feb-2023 13:00 4.0 WSW 1-Feb-2023 14:00 4.5 WSW 1-Feb-2023 15:00 3.6 WSW 1-Feb-2023 15:00 3.6 WSW 1-Feb-2023 16:00 4.0 W 1-Feb-2023 17:00 3.6 NNW 1-Feb-2023 19:00 3.1 W 1-Feb-2023 19:00 3.1 W 1-Feb-2023 21:00 2.7 SSW 1-Feb-2023 21:00 2.7 SSW 1-Feb-2023 22:00 1.8 SSW 1-Feb-2023			1	
1-Feb-2023 7:00 0.0 1-Feb-2023 8:00 0.0 1-Feb-2023 9:00 2.7 SSW 1-Feb-2023 10:00 2.7 SSW 1-Feb-2023 11:00 4.5 WSW 1-Feb-2023 12:00 3.6 WNW 1-Feb-2023 14:00 4.5 WSW 1-Feb-2023 15:00 3.6 WSW 1-Feb-2023 15:00 3.6 WSW 1-Feb-2023 16:00 4.0 W 1-Feb-2023 16:00 4.0 W 1-Feb-2023 17:00 3.6 NNW 1-Feb-2023 19:00 3.1 W 1-Feb-2023 19:00 3.1 W 1-Feb-2023 20:00 1.3 WSW 1-Feb-2023 21:00 2.7 SSW 1-Feb-2023 22:00 1.8 SSW 1-Feb-2023 23:00 3.1 WSW 2-Feb-2023				
1-Feb-2023 8:00 0.0 1-Feb-2023 9:00 2.7 SSW 1-Feb-2023 10:00 2.7 SSW 1-Feb-2023 11:00 4.5 WSW 1-Feb-2023 12:00 3.6 WNW 1-Feb-2023 13:00 4.0 WSW 1-Feb-2023 14:00 4.5 WSW 1-Feb-2023 15:00 3.6 WSW 1-Feb-2023 16:00 4.0 W 1-Feb-2023 17:00 3.6 NNW 1-Feb-2023 18:00 3.6 NNW 1-Feb-2023 19:00 3.1 W 1-Feb-2023 20:00 1.3 WSW 1-Feb-2023 20:00 1.3 WSW 1-Feb-2023 21:00 2.7 SSW 1-Feb-2023 22:00 1.8 SSW 1-Feb-2023 23:00 3.1 WSW 2-Feb-2023 1:00 2.2 SSE 2-Feb-2023 <td></td> <td></td> <td></td> <td></td>				
1-Feb-2023 9:00 2.7 SSW 1-Feb-2023 10:00 2.7 SSW 1-Feb-2023 11:00 4.5 WSW 1-Feb-2023 12:00 3.6 WNW 1-Feb-2023 13:00 4.0 WSW 1-Feb-2023 14:00 4.5 WSW 1-Feb-2023 15:00 3.6 WSW 1-Feb-2023 16:00 4.0 W 1-Feb-2023 17:00 3.6 NNW 1-Feb-2023 18:00 3.6 W 1-Feb-2023 19:00 3.1 W 1-Feb-2023 20:00 1.3 WSW 1-Feb-2023 20:00 1.3 WSW 1-Feb-2023 21:00 2.7 SSW 1-Feb-2023 23:00 3.1 WSW 2-Feb-2023 20:00 4.0 WSW 2-Feb-2023 1:00 2.2 SSE 2-Feb-2023 3:00 0.0 2-Feb-2023				
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3-Feb-2023 2:00 4.9 WSW				
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3-Feb-2023 5:00 4.9 W				
3-Feb-2023 6:00 4.5 SW	3-Feb-2023	6:00	4.5	SW

Date	Time	Wind Speed m/s	Direction
3-Feb-2023	7:00	3.1	WSW
3-Feb-2023	8:00	4.5	W
3-Feb-2023	9:00	3.6	WNW
3-Feb-2023	10:00	1.8	SW
3-Feb-2023	11:00	2.2	SSW
3-Feb-2023	12:00	1.8	W
3-Feb-2023	13:00	3.1	W
3-Feb-2023	14:00	3.6	W
3-Feb-2023	15:00	4.9	WNW
3-Feb-2023	16:00	4.9	NW
3-Feb-2023	17:00	4.5	NNW
3-Feb-2023	18:00	2.7	NNW
3-Feb-2023	19:00	0.0	
3-Feb-2023		1.3	WSW
3-Feb-2023	20:00 21:00	1.3	WSW
3-Feb-2023	22:00	4.9	WSW
3-Feb-2023	23:00	5.4	WNW
4-Feb-2023	0:00	4.9	WNW
4-Feb-2023	1:00	6.3	WSW
4-Feb-2023	2:00	5.4	W
4-Feb-2023	3:00	5.8	NW
4-Feb-2023	4:00	4.9	WSW
4-Feb-2023	5:00	4.5	S
4-Feb-2023	6:00	4.0	SW
4-Feb-2023	7:00	4.5	WNW
4-Feb-2023	8:00	4.5	W
4-Feb-2023	9:00	4.0	W
4-Feb-2023	10:00	4.5	NW
4-Feb-2023	11:00	5.4	WSW
4-Feb-2023	12:00	4.0	W
4-Feb-2023	13:00	4.9	WSW
4-Feb-2023	14:00	4.5	W
4-Feb-2023	15:00	5.4	WNW
4-Feb-2023	16:00	3.1	WNW
4-Feb-2023	17:00	2.7	W
4-Feb-2023	18:00	2.7	SW
4-Feb-2023	19:00	0.9	WSW
4-Feb-2023	20:00	2.7	W
4-Feb-2023	21:00	2.2	WSW
4-Feb-2023	22:00	3.6	WSW
4-Feb-2023	23:00	3.6	WSW
5-Feb-2023	0:00	1.8	WSW
5-Feb-2023	1:00	1.3	WSW
5-Feb-2023	2:00	2.7	SW
5-Feb-2023	3:00	3.1	WSW
5-Feb-2023	4:00	3.6	WSW
5-Feb-2023	5:00	4.0	WSW
5-Feb-2023	6:00	3.1	WSW
5-Feb-2023	7:00	4.0	W
5-Feb-2023	8:00	3.6	W
5-Feb-2023	9:00	2.7	W
5-Feb-2023	10:00	3.1	W
5-Feb-2023	11:00	2.7	WSW
5-Feb-2023	12:00	2.7	W
5-Feb-2023	13:00	1.8	W
0-1 en-2020	13.00	1.0	v v

Date	Time	Wind Speed m/s	Direction
5-Feb-2023	14:00	1.3	WSW
5-Feb-2023	15:00	0.4	WSW
5-Feb-2023	16:00	1.8	WSW
5-Feb-2023	17:00	2.2	SSW
5-Feb-2023	18:00	4.0	W
5-Feb-2023	19:00	3.6	WSW
5-Feb-2023	20:00	3.6	WSW
5-Feb-2023	21:00	2.7	W
5-Feb-2023	22:00	0.9	WNW
5-Feb-2023	23:00	0.9	W
6-Feb-2023	0:00	0.9	W
	1:00	1.8	W
6-Feb-2023	2:00		WNW
6-Feb-2023		0.9	
6-Feb-2023	3:00	3.6	W
6-Feb-2023	4:00	3.6	W
6-Feb-2023	5:00	1.3	SW
6-Feb-2023	6:00	0.0	
6-Feb-2023	7:00	0.0	
6-Feb-2023	8:00	0.9	WSW
6-Feb-2023	9:00	0.0	
6-Feb-2023	10:00	0.9	WSW
6-Feb-2023	11:00	2.2	WSW
6-Feb-2023	12:00	3.1	WSW
6-Feb-2023	13:00	3.6	WSW
6-Feb-2023	14:00	4.5	W
6-Feb-2023	15:00	4.0	NW
6-Feb-2023	16:00	3.1	WNW
6-Feb-2023	17:00	4.9	NNW
6-Feb-2023	18:00	4.0	Ν
6-Feb-2023	19:00	3.6	NW
6-Feb-2023	20:00	1.8	WSW
6-Feb-2023	21:00	0.4	W
6-Feb-2023	22:00	1.3	WNW
6-Feb-2023	23:00	0.4	WSW
7-Feb-2023	0:00	0.0	
7-Feb-2023	1:00	2.7	W
7-Feb-2023	2:00	1.8	W
7-Feb-2023	3:00	1.8	WSW
7-Feb-2023	4:00	0.9	WSW
7-Feb-2023	5:00	0.9	WSW
7-Feb-2023	6:00	3.1	WNW
7-Feb-2023	7:00	0.0	
7-Feb-2023	8:00	3.1	WNW
7-Feb-2023	9:00	1.3	WNW
7-Feb-2023	10:00	0.9	W
7-Feb-2023	11:00	1.3	WSW
7-Feb-2023 7-Feb-2023	12:00	0.4	SW
7-Feb-2023 7-Feb-2023	13:00	1.8	SSW
7-Feb-2023 7-Feb-2023	14:00	1.3	SW
	15:00	1.3	SW
7-Feb-2023			SW
7-Feb-2023	16:00	0.4	
7-Feb-2023	17:00	1.8	<u>E</u>
7-Feb-2023	18:00	1.3	E
7-Feb-2023	19:00	0.0	
7-Feb-2023	20:00	2.2	WNW

Date	Time	Wind Speed m/s	Direction
7-Feb-2023	21:00	3.1	SW
7-Feb-2023	22:00	4.0	NNW
7-Feb-2023	23:00	4.5	WSW
8-Feb-2023	0:00	4.5	WSW
8-Feb-2023	1:00	3.6	W
8-Feb-2023	2:00	6.3	W
8-Feb-2023	3:00	6.3	SW
8-Feb-2023	4:00	4.9	SW
8-Feb-2023	5:00	4.5	SW
8-Feb-2023	6:00	5.4	WSW
8-Feb-2023	7:00	3.1	SW
	8:00	3.6	WSW
8-Feb-2023	9:00	2.2	WSW
8-Feb-2023			
8-Feb-2023	10:00	2.7	W
8-Feb-2023	11:00	3.6	WSW
8-Feb-2023	12:00	3.6	WSW
8-Feb-2023	13:00	4.9	SW
8-Feb-2023	14:00	4.0	NW
8-Feb-2023	15:00	4.9	NW
8-Feb-2023	16:00	4.0	WNW
8-Feb-2023	17:00	2.7	W
8-Feb-2023	18:00	3.6	SSW
8-Feb-2023	19:00	2.7	SW
8-Feb-2023	20:00	3.6	WSW
8-Feb-2023	21:00	3.1	WNW
8-Feb-2023	22:00	5.8	WSW
8-Feb-2023	23:00	3.1	WSW
9-Feb-2023	0:00	3.1	SW
9-Feb-2023	1:00	4.5	WSW
9-Feb-2023	2:00	2.7	WSW
9-Feb-2023	3:00	4.5	W
9-Feb-2023	4:00	2.7	WSW
9-Feb-2023	5:00	3.1	WSW
9-Feb-2023	6:00	1.8	WSW
9-Feb-2023	7:00	5.4	WNW
9-Feb-2023	8:00	2.7	W
9-Feb-2023	9:00	3.1	W
9-Feb-2023	10:00	5.4	WSW
9-Feb-2023	11:00	4.5	SW
9-Feb-2023	12:00	4.5	NW
9-Feb-2023	13:00	4.9	W
9-Feb-2023	14:00	5.4	W
9-Feb-2023	15:00	4.5	WNW
9-Feb-2023	16:00	3.6	WNW
9-Feb-2023	17:00	4.0	WNW
9-Feb-2023	18:00	3.1	W
9-Feb-2023 9-Feb-2023	19:00	2.7	W
	20:00		WNW
9-Feb-2023		1.8	W
9-Feb-2023	21:00	2.7	WSW
9-Feb-2023	22:00	0.9	
9-Feb-2023	23:00	1.8	SW
10-Feb-2023	0:00	0.4	W
10-Feb-2023	1:00	0.4	WNW
10-Feb-2023	2:00	0.9	W
10-Feb-2023	3:00	0.4	W

Date	Time	Wind Speed m/s	Direction
10-Feb-2023	4:00	0.9	WNW
10-Feb-2023	5:00	0.4	WNW
10-Feb-2023	6:00	0.0	
10-Feb-2023	7:00	0.0	
10-Feb-2023	8:00	1.3	WSW
10-Feb-2023	9:00	2.7	WNW
10-Feb-2023	10:00	1.3	WNW
10-Feb-2023	11:00	0.0	
10-Feb-2023	12:00	3.1	WNW
10-Feb-2023	13:00	4.9	NW
10-Feb-2023	14:00	4.5	W
10-Feb-2023	15:00	3.6	W
10-Feb-2023	16:00	3.6	WSW
10-Feb-2023	17:00	2.7	SW
10-Feb-2023	18:00	3.1	NW
		3.1	WNW
10-Feb-2023	19:00		
10-Feb-2023	20:00	3.6	N
10-Feb-2023	21:00	3.1	W
10-Feb-2023	22:00	3.6	NW
10-Feb-2023	23:00	4.0	NW
11-Feb-2023	0:00	4.0	WNW
11-Feb-2023	1:00	4.9	SW
11-Feb-2023	2:00	3.6	WSW
11-Feb-2023	3:00	3.6	WSW
11-Feb-2023	4:00	5.4	WSW
11-Feb-2023	5:00	4.9	WSW
11-Feb-2023	6:00	4.9	WSW
11-Feb-2023	7:00	4.5	W
11-Feb-2023	8:00	4.5	WSW
11-Feb-2023	9:00	4.9	WSW
11-Feb-2023	10:00	5.4	WSW
11-Feb-2023	11:00	5.8	SW
11-Feb-2023	12:00	6.3	W
11-Feb-2023	13:00	5.4	W
11-Feb-2023	14:00	6.7	WNW
11-Feb-2023	15:00	5.4	W
11-Feb-2023	16:00	7.6	W
11-Feb-2023	17:00	6.3	WSW
11-Feb-2023	18:00	5.4	W
11-Feb-2023	19:00	4.0	WSW
11-Feb-2023	20:00	4.5	WSW
11-Feb-2023	21:00	7.2	W
11-Feb-2023	22:00	3.1	W
11-Feb-2023	23:00	2.7	S
12-Feb-2023	0:00	4.9	WNW
12-Feb-2023	1:00	4.5	NW
12-Feb-2023	2:00	4.0	NW
12-Feb-2023	3:00	3.6	WSW
12-Feb-2023	4:00	3.1	WNW
12-Feb-2023	5:00	1.8	WSW
12-Feb-2023	6:00	4.0	WSW
12-Feb-2023	7:00	4.0	WSW
12-Feb-2023	8:00	4.5	WNW
12-Feb-2023	9:00	4.0	WSW
12-Feb-2023	10:00	5.8	WNW
12-1 00-2020	10.00	0.0	AAIAAA

Date	Time	Wind Speed m/s	Direction
12-Feb-2023	11:00	5.8	NNW
12-Feb-2023	12:00	4.0	SW
12-Feb-2023	13:00	5.4	NW
12-Feb-2023	14:00	5.4	WSW
12-Feb-2023	15:00	6.3	W
12-Feb-2023	16:00	4.9	NW
12-Feb-2023	17:00	4.5	NNW
12-Feb-2023	18:00	4.5	NNW
12-Feb-2023	19:00	2.7	NW
12-Feb-2023	20:00	3.1	W
12-Feb-2023	21:00	3.6	WNW
12-Feb-2023	22:00	3.6	WSW
12-Feb-2023	23:00	4.5	NW
13-Feb-2023	0:00	3.1	W
13-Feb-2023	1:00	3.6	WNW
13-Feb-2023	2:00	2.7	W
13-Feb-2023	3:00	3.6	WSW
13-Feb-2023	4:00		W
		4.5	WSW
13-Feb-2023	5:00	4.0	WSW
13-Feb-2023	6:00 7:00	3.1	WSW
13-Feb-2023			
13-Feb-2023	8:00	2.7	W
13-Feb-2023	9:00	3.6	WSW
13-Feb-2023	10:00	4.0	WSW
13-Feb-2023	11:00	3.6	WSW
13-Feb-2023	12:00	4.9	WSW
13-Feb-2023	13:00	4.9	SW
13-Feb-2023	14:00	4.0	WNW
13-Feb-2023	15:00	3.6	WSW
13-Feb-2023	16:00	3.6	NW
13-Feb-2023	17:00	1.3	ENE
13-Feb-2023	18:00	1.3	ENE
13-Feb-2023	19:00	1.8	WNW
13-Feb-2023	20:00	1.8	WNW
13-Feb-2023	21:00	0.4	WNW
13-Feb-2023	22:00	1.3	ENE
13-Feb-2023	23:00	4.0	E
14-Feb-2023	0:00	4.0	E
14-Feb-2023	1:00	3.6	Е
14-Feb-2023	2:00	2.7	S
14-Feb-2023	3:00	5.4	SE
14-Feb-2023	4:00	6.3	SE
14-Feb-2023	5:00	4.5	SSW
14-Feb-2023	6:00	4.5	WSW
14-Feb-2023	7:00	5.4	WSW
14-Feb-2023	8:00	7.2	SW
14-Feb-2023	9:00	6.3	WSW
14-Feb-2023	10:00	8.9	W
14-Feb-2023	11:00	7.2	WSW
14-Feb-2023	12:00	4.9	W
14-Feb-2023	13:00	4.9	SW
14-Feb-2023	14:00	3.1	S
14-Feb-2023	15:00	4.5	S
14-Feb-2023	16:00	3.1	SSW
14-Feb-2023	17:00	2.7	S
111 35 2020	17.00		

Date	Time	Wind Speed m/s	Direction
14-Feb-2023	18:00	3.6	SW
14-Feb-2023	19:00	1.8	S
14-Feb-2023	20:00	4.5	S
14-Feb-2023	21:00	4.5	SW
14-Feb-2023	22:00	5.4	W
14-Feb-2023	23:00	4.5	SW
15-Feb-2023	0:00	5.4	SSE
15-Feb-2023	1:00	4.5	SW
15-Feb-2023	2:00	5.4	SSW
15-Feb-2023	3:00	4.5	SW
15-Feb-2023	4:00	4.0	WSW
15-Feb-2023	5:00	7.2	SSE
15-Feb-2023	6:00	5.8	S
15-Feb-2023	7:00	4.9	WSW
15-Feb-2023	8:00	7.2	W
			WSW
15-Feb-2023	9:00	5.4	
15-Feb-2023	10:00	6.3	WSW
15-Feb-2023	11:00	5.4	WSW
15-Feb-2023	12:00	5.4	S
15-Feb-2023	13:00	4.5	WSW
15-Feb-2023	14:00	3.6	WSW
15-Feb-2023	15:00	3.1	SSW
15-Feb-2023	16:00	4.0	SW
15-Feb-2023	17:00	4.0	SW
15-Feb-2023	18:00	3.6	WSW
15-Feb-2023	19:00	4.0	SW
15-Feb-2023	20:00	2.2	WSW
15-Feb-2023	21:00	2.7	W
15-Feb-2023	22:00	3.1	WSW
15-Feb-2023	23:00	2.7	WSW
16-Feb-2023	0:00	2.7	W
16-Feb-2023	1:00	3.1	WSW
16-Feb-2023	2:00	2.2	WSW
16-Feb-2023	3:00	4.0	SW
16-Feb-2023	4:00	4.9	S
16-Feb-2023	5:00	3.6	WSW
16-Feb-2023	6:00	3.6	WSW
16-Feb-2023	7:00	4.0	S
16-Feb-2023	8:00	4.5	WSW
16-Feb-2023	9:00	5.4	WSW
16-Feb-2023	10:00	5.8	WSW
16-Feb-2023	11:00	4.0	WSW
16-Feb-2023	12:00	4.9	S
16-Feb-2023	13:00	2.7	S
16-Feb-2023	14:00	2.2	SSW
16-Feb-2023	15:00	1.8	SSW
16-Feb-2023	16:00	1.3	SSW
16-Feb-2023	17:00	1.8	SW
16-Feb-2023	18:00	3.1	W
16-Feb-2023	19:00	2.7	W
16-Feb-2023	20:00	3.6	WSW
16-Feb-2023	21:00	4.0	SW
16-Feb-2023	22:00	4.0	WSW
16-Feb-2023	23:00	4.0	SW
17-Feb-2023	0:00	4.0	WSW
17-Feb-2023	0:00	4.5	VVOVV

Date	Time	Wind Speed m/s	Direction
17-Feb-2023	1:00	4.9	WSW
17-Feb-2023	2:00	4.0	WSW
17-Feb-2023	3:00	4.5	WNW
17-Feb-2023	4:00	4.5	WSW
17-Feb-2023	5:00	5.8	WSW
17-Feb-2023	6:00	4.9	WSW
17-Feb-2023	7:00	3.6	WSW
17-Feb-2023	8:00	3.1	W
17-Feb-2023	9:00	3.6	WSW
17-Feb-2023	10:00	3.6	WSW
17-Feb-2023	11:00	2.7	W
	12:00	2.2	S S
17-Feb-2023 17-Feb-2023	13:00	2.7	SSW
17-Feb-2023	14:00	3.1	S
17-Feb-2023	15:00	1.8	NW
17-Feb-2023	16:00	3.6	WNW
17-Feb-2023	17:00	2.7	WNW
17-Feb-2023	18:00	3.1	NW
17-Feb-2023	19:00	0.9	ENE
17-Feb-2023	20:00	4.5	WNW
17-Feb-2023	21:00	3.1	WNW
17-Feb-2023	22:00	3.1	WNW
17-Feb-2023	23:00	3.6	WNW
18-Feb-2023	0:00	4.0	NW
18-Feb-2023	1:00	2.2	WNW
18-Feb-2023	2:00	0.9	W
18-Feb-2023	3:00	1.3	WNW
18-Feb-2023	4:00	0.4	WNW
18-Feb-2023	5:00	3.1	WNW
18-Feb-2023	6:00	1.3	WNW
18-Feb-2023	7:00	1.3	WNW
18-Feb-2023	8:00	0.4	WNW
18-Feb-2023	9:00	0.9	WNW
18-Feb-2023	10:00	1.3	SW
18-Feb-2023	11:00	2.7	S
18-Feb-2023	12:00	3.6	WNW
18-Feb-2023	13:00	3.1	SSW
18-Feb-2023	14:00	3.1	WSW
18-Feb-2023	15:00	4.0	NW
18-Feb-2023	16:00	4.9	WSW
18-Feb-2023	17:00	3.6	NW
18-Feb-2023	18:00	3.6	WNW
18-Feb-2023	19:00	2.2	WNW
18-Feb-2023	20:00	0.4	WSW
18-Feb-2023	21:00	0.9	W
18-Feb-2023	22:00	2.2	WNW
18-Feb-2023	23:00	1.3	W
19-Feb-2023	0:00	2.2	SW
19-Feb-2023	1:00	0.0	
19-Feb-2023	2:00	2.7	W
19-Feb-2023	3:00	1.3	NW
		1.3	
19-Feb-2023	4:00		WNW
19-Feb-2023	5:00	0.0	
19-Feb-2023	6:00	0.0	
19-Feb-2023	7:00	0.0	

Date	Time	Wind Speed m/s	Direction
19-Feb-2023	8:00	0.9	WNW
19-Feb-2023	9:00	2.7	WNW
19-Feb-2023	10:00	0.9	SW
19-Feb-2023	11:00	3.1	WSW
19-Feb-2023	12:00	3.6	SSE
19-Feb-2023	13:00	4.5	SSW
19-Feb-2023	14:00	4.0	WSW
19-Feb-2023	15:00	4.0	WSW
19-Feb-2023	16:00	3.6	SSW
19-Feb-2023	17:00	2.2	SSW
19-Feb-2023	18:00	3.6	S
			S
19-Feb-2023	19:00	4.0	WSW
19-Feb-2023	20:00	3.6	
19-Feb-2023	21:00	5.4	SSE
19-Feb-2023	22:00	6.3	WNW
19-Feb-2023	23:00	5.8	WSW
20-Feb-2023	0:00	4.5	SW
20-Feb-2023	1:00	0.0	
20-Feb-2023	2:00	4.5	WSW
20-Feb-2023	3:00	4.5	SW
20-Feb-2023	4:00	3.6	WSW
20-Feb-2023	5:00	4.5	WSW
20-Feb-2023	6:00	6.3	SW
20-Feb-2023	7:00	3.6	WSW
20-Feb-2023	8:00	4.5	WSW
20-Feb-2023	9:00	4.9	SW
20-Feb-2023	10:00	4.9	WSW
20-Feb-2023	11:00	6.3	WSW
20-Feb-2023	12:00	5.8	WSW
20-Feb-2023	13:00	3.1	SSE
20-Feb-2023	14:00	3.6	WSW
20-Feb-2023	15:00	2.2	WSW
20-Feb-2023	16:00	1.8	SW
20-Feb-2023	17:00	3.1	SW
20-Feb-2023 20-Feb-2023	18:00	1.8	SW
20-Feb-2023	19:00	2.7	WNW
20-Feb-2023	20:00	4.9	SW
20-Feb-2023	21:00	1.8	WNW
20-Feb-2023	22:00	2.7	WNW
20-Feb-2023	23:00	4.5	WSW
21-Feb-2023	0:00	4.5	W
21-Feb-2023	1:00	4.9	W
21-Feb-2023	2:00	4.0	SW
21-Feb-2023	3:00	3.6	W
21-Feb-2023	4:00	0.9	WSW
21-Feb-2023	5:00	3.1	WSW
21-Feb-2023	6:00	3.6	W
21-Feb-2023	7:00	3.6	WSW
21-Feb-2023	8:00	3.1	W
21-Feb-2023	9:00	3.6	WSW
21-Feb-2023	10:00	5.4	WNW
21-Feb-2023	11:00	4.5	SW
21-Feb-2023	12:00	4.9	SW
21-Feb-2023 21-Feb-2023	13:00	5.4	WSW
	13:00	4.5	WNW
21-Feb-2023	14:00	4.5	VVINVV

Date	Time	Wind Speed m/s	Direction
21-Feb-2023	15:00	5.4	NW
21-Feb-2023	16:00	6.3	NW
21-Feb-2023	17:00	6.7	W
21-Feb-2023	18:00	5.4	NW
21-Feb-2023	19:00	6.7	WSW
21-Feb-2023	20:00	5.4	WSW
21-Feb-2023	21:00	6.3	WSW
21-Feb-2023	22:00	6.7	WNW
21-Feb-2023	23:00	6.3	WSW
22-Feb-2023	0:00	6.7	W
22-Feb-2023	1:00	7.2	SW
22-Feb-2023	2:00	7.2	WSW
22-Feb-2023	3:00	7.2	SW
22-Feb-2023	4:00	6.3	WSW
22-Feb-2023 22-Feb-2023	5:00	3.6	WSW
22-Feb-2023 22-Feb-2023			WSW
	6:00	4.5	
22-Feb-2023	7:00	3.6	WNW
22-Feb-2023	8:00	2.7	WNW
22-Feb-2023	9:00	5.4	WSW
22-Feb-2023	10:00	4.9	SW
22-Feb-2023	11:00	4.5	WSW
22-Feb-2023	12:00	3.6	SSE
22-Feb-2023	13:00	4.9	W
22-Feb-2023	14:00	3.1	WSW
22-Feb-2023	15:00	2.7	NW
22-Feb-2023	16:00	4.0	ENE
22-Feb-2023	17:00	3.6	ENE
22-Feb-2023	18:00	0.9	ENE
22-Feb-2023	19:00	1.8	WSW
22-Feb-2023	20:00	3.1	WSW
22-Feb-2023	21:00	2.7	W
22-Feb-2023	22:00	2.2	WSW
22-Feb-2023	23:00	2.7	NNW
23-Feb-2023	0:00	1.8	WNW
23-Feb-2023	1:00	3.6	SW
23-Feb-2023	2:00	3.1	WNW
23-Feb-2023	3:00	4.0	WSW
23-Feb-2023	4:00	3.1	WSW
23-Feb-2023 23-Feb-2023	5:00	3.6	WSW
			WSW
23-Feb-2023	6:00	3.6	
23-Feb-2023	7:00	3.1	WSW
23-Feb-2023	8:00	1.8	WSW
23-Feb-2023	9:00	3.1	WSW
23-Feb-2023	10:00	2.2	WSW
23-Feb-2023	11:00	3.6	WSW
23-Feb-2023	12:00	2.7	SW
23-Feb-2023	13:00	2.7	SSW
23-Feb-2023	14:00	2.7	SSW
23-Feb-2023	15:00	3.6	Е
23-Feb-2023	16:00	4.0	E
23-Feb-2023	17:00	4.0	E
23-Feb-2023	18:00	1.3	ENE
23-Feb-2023	19:00	0.0	
23-Feb-2023	20:00	2.7	W
23-Feb-2023	21:00	2.2	WNW

Date	Time	Wind Speed m/s	Direction
23-Feb-2023	22:00	2.7	NNW
23-Feb-2023	23:00	1.8	WSW
24-Feb-2023	0:00	2.2	WSW
24-Feb-2023	1:00	0.9	WSW
24-Feb-2023	2:00	1.8	WSW
24-Feb-2023	3:00	3.6	WSW
24-Feb-2023	4:00	3.6	WSW
24-Feb-2023	5:00	1.8	WSW
24-Feb-2023	6:00	0.0	
24-Feb-2023	7:00	1.3	WSW
24-Feb-2023	8:00	0.4	WSW
24-Feb-2023	9:00	1.8	WSW
24-Feb-2023	10:00	1.3	WSW
24-Feb-2023	11:00	1.8	W
24-Feb-2023	12:00	3.6	WSW
24-Feb-2023	13:00	4.5	SSE
24-Feb-2023	14:00	4.0	SSW
24-Feb-2023 24-Feb-2023	15:00	3.6	SW
24-Feb-2023 24-Feb-2023	16:00	4.0	SSW
			SSW
24-Feb-2023	17:00	2.7	
24-Feb-2023	18:00	4.0	S
24-Feb-2023	19:00	2.7	SSW
24-Feb-2023	20:00	1.8	SSW
24-Feb-2023	21:00	3.6	WSW
24-Feb-2023	22:00	4.5	SW
24-Feb-2023	23:00	6.3	WSW
25-Feb-2023	0:00	5.4	WSW
25-Feb-2023	1:00	4.9	WSW
25-Feb-2023	2:00	4.9	WSW
25-Feb-2023	3:00	4.9	SW
25-Feb-2023	4:00	6.7	WSW
25-Feb-2023	5:00	5.4	W
25-Feb-2023	6:00	4.9	SW
25-Feb-2023	7:00	4.9	SW
25-Feb-2023	8:00	4.9	WSW
25-Feb-2023	9:00	4.9	W
25-Feb-2023	10:00	6.3	SSW
25-Feb-2023	11:00	6.7	SSW
25-Feb-2023	12:00	5.4	WSW
25-Feb-2023	13:00	4.9	WSW
25-Feb-2023	14:00	4.9	SW
25-Feb-2023	15:00	4.9	SW
25-Feb-2023	16:00	4.5	WSW
25-Feb-2023	17:00	5.8	WSW
25-Feb-2023	18:00	5.8	WSW
25-Feb-2023	19:00	6.3	WSW
25-Feb-2023	20:00	4.5	SW
25-Feb-2023	21:00	5.8	WSW
25-Feb-2023	22:00	5.4	SW
25-Feb-2023	23:00	4.5	SSE
26-Feb-2023	0:00	4.0	SW
26-Feb-2023	1:00	4.5	WSW
26-Feb-2023	2:00	4.5	SSE
26-Feb-2023 26-Feb-2023	3:00 4:00	3.1 2.2	WSW SW

Date	Time	Wind Speed m/s	Direction
26-Feb-2023	5:00	3.1	WSW
26-Feb-2023	6:00	3.1	S
26-Feb-2023	7:00	3.1	WSW
26-Feb-2023	8:00	4.5	W
26-Feb-2023	9:00	5.8	WSW
26-Feb-2023	10:00	4.9	SW
26-Feb-2023	11:00	5.4	WSW
26-Feb-2023	12:00	5.4	W
26-Feb-2023	13:00	4.5	WSW
26-Feb-2023	14:00	4.0	WSW
26-Feb-2023	15:00	4.0	NW
	16:00	4.5	WSW
26-Feb-2023	17:00	3.6	WSW
26-Feb-2023			
26-Feb-2023	18:00	4.9	SW
26-Feb-2023	19:00	5.4	W
26-Feb-2023	20:00	1.8	WSW
26-Feb-2023	21:00	3.1	WNW
26-Feb-2023	22:00	2.2	WSW
26-Feb-2023	23:00	4.5	WSW
27-Feb-2023	0:00	3.6	W
27-Feb-2023	1:00	3.6	SW
27-Feb-2023	2:00	4.9	WNW
27-Feb-2023	3:00	4.9	W
27-Feb-2023	4:00	3.6	WSW
27-Feb-2023	5:00	3.1	WSW
27-Feb-2023	6:00	3.6	W
27-Feb-2023	7:00	2.7	W
27-Feb-2023	8:00	1.8	WSW
27-Feb-2023	9:00	3.6	WSW
27-Feb-2023	10:00	4.5	WNW
27-Feb-2023	11:00	4.9	WSW
27-Feb-2023	12:00	4.0	SW
27-Feb-2023	13:00	4.0	WNW
27-Feb-2023	14:00	3.1	WSW
27-Feb-2023	15:00	3.6	W
27-Feb-2023	16:00	4.0	NNW
27-Feb-2023	17:00	4.0	WSW
27-Feb-2023	18:00	4.5	WSW
27-Feb-2023	19:00	3.6	WSW
27-Feb-2023	20:00	2.7	W
27-Feb-2023	21:00	4.9	WNW
27-Feb-2023	22:00	4.5	WSW
27-Feb-2023	23:00	4.9	WSW
28-Feb-2023	0:00	4.9	WNW
28-Feb-2023	1:00	4.5	SSW
28-Feb-2023	2:00	4.0	W
28-Feb-2023	3:00	4.5	WSW
28-Feb-2023	4:00	4.5	WSW
28-Feb-2023	5:00	3.1	W
	6:00	4.0	WNW
28-Feb-2023			
28-Feb-2023	7:00	3.6	WSW
28-Feb-2023	8:00	2.2	WSW
28-Feb-2023	9:00	4.0	SW
28-Feb-2023	10:00	3.6	W
28-Feb-2023	11:00	5.4	WSW

Date	Time	Wind Speed m/s	Direction
28-Feb-2023	12:00	4.0	WSW
28-Feb-2023	13:00	4.5	SSW
28-Feb-2023	14:00	4.5	WSW
28-Feb-2023	15:00	3.6	NW
28-Feb-2023	16:00	3.6	WNW
28-Feb-2023	17:00	3.6	E
28-Feb-2023	18:00	1.3	E
28-Feb-2023	19:00	2.2	WSW
28-Feb-2023	20:00	0.9	WSW
28-Feb-2023	21:00	1.8	WSW
28-Feb-2023	22:00	1.8	WSW
28-Feb-2023	23:00	3.6	W

APPENDIX G – GENERAL WEATHER CONDITIONS DURING THE MONITORING PERIOD

Date	Mean Air Temperature (°C)	Mean Relative Humidity (%)	Precipitation (mm)
1 March 2023	19.7	71	-
2 March 2023	19.8	70	-
3 March 2023	18.6	56	-
4 March 2023	19.6	65	-
5 March 2023	19.7	57	-
6 March 2023	20	50	-
7 March 2023	20.1	56	-
8 March 2023	21.6	77	-
9 March 2023	22.5	75	-
10 March 2023	22.4	68	-
11 March 2023	22.1	67	-
12 March 2023	22.6	71	0.1
13 March 2023	20.1	64	Trace
14 March 2023	19.7	73	-
15 March 2023	21	77	-
16 March 2023	22	72	Trace

Date	Mean Air Temperature (°C)	Mean Relative Humidity (%)	Precipitation (mm)
17 March 2023	21.7	83	0.5
18 March 2023	22.3	80	-
19 March 2023	20.6	86	0.6
20 March 2023	21.8	88	0.3
21 March 2023	23.7	85	Trace
22 March 2023	24.7	83	Trace
23 March 2023	25	81	-
24 March 2023	25.6	80	-
25 March 2023	23.4	89	53.5
26 March 2023	20.8	91	5.9
27 March 2023	18.6	86	6.3
28 March 2023	18.7	84	Trace
29 March 2023	19.9	86	0.9
30 March 2023	20.8	89	0.3
31 March 2023	20.3	92	1.9

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

Date	Time	Wind Speed m/s	Direction
1-Mar-2023	0:00	0.0	W
1-Mar-2023	1:00	0.0	W
1-Mar-2023	2:00	0.0	W
1-Mar-2023	3:00	0.0	WNW
1-Mar-2023	4:00	0.0	
1-Mar-2023	5:00	0.0	WNW
1-Mar-2023	6:00	0.0	WNW
1-Mar-2023	7:00	0.0	
1-Mar-2023	8:00	0.0	NW
1-Mar-2023	9:00	0.0	SW
1-Mar-2023	10:00	0.0	SSW
1-Mar-2023	11:00	0.0	SSW
1-Mar-2023	12:00	0.0	E
1-Mar-2023	13:00	0.0	SW
1-Mar-2023	14:00	0.4	ENE
1-Mar-2023	15:00	0.4	E
1-Mar-2023	16:00	0.9	ENE
1-Mar-2023	17:00	0.9	ENE
1-Mar-2023	18:00	0.4	ENE
1-Mar-2023	19:00	0.0	
1-Mar-2023	20:00	0.0	
1-Mar-2023	21:00	0.0	
1-Mar-2023	22:00	0.0	
1-Mar-2023	23:00	0.0	
2-Mar-2023	0:00	0.0	
2-Mar-2023	1:00	0.0	
2-Mar-2023	2:00	0.0	
2-Mar-2023	3:00	0.0	
2-Mar-2023	4:00	0.0	WNW
2-Mar-2023	5:00	0.4	W
2-Mar-2023	6:00	0.4	WSW
2-Mar-2023	7:00	0.4	WSW
2-Mar-2023	8:00	0.4	WSW
2-Mar-2023	9:00	0.4	WSW
2-Mar-2023	10:00	0.4	WSW
2-Mar-2023	11:00	0.0	SSW
2-Mar-2023	12:00	0.0	SSW
2-Mar-2023	13:00	0.0	WSW
2-Mar-2023	14:00	0.0	SW
2-Mar-2023	15:00	0.0	W
2-Mar-2023	16:00	0.9	ENE
2-Mar-2023	17:00	0.9	NW
2-Mar-2023	18:00	0.0	WSW
2-Mar-2023	19:00	0.9	W
	20:00		WSW
2-Mar-2023	21:00	0.9	WSW
2-Mar-2023			
2-Mar-2023	22:00	0.4	WSW
2-Mar-2023	23:00	0.4	WSW
3-Mar-2023	0:00	0.4	WSW
3-Mar-2023	1:00	0.9	WSW
3-Mar-2023	2:00	0.9	WSW
3-Mar-2023	3:00	0.4	WSW
3-Mar-2023	4:00	0.0	WSW
3-Mar-2023	5:00	0.0	WSW
3-Mar-2023	6:00	0.0	WSW

Date	Time	Wind Speed m/s	Direction
3-Mar-2023	7:00	0.4	WSW
3-Mar-2023	8:00	0.0	WSW
3-Mar-2023	9:00	0.4	WSW
3-Mar-2023	10:00	0.4	WSW
3-Mar-2023	11:00	0.4	WSW
3-Mar-2023	12:00	0.4	W
3-Mar-2023	13:00	0.4	WSW
3-Mar-2023	14:00	0.4	WNW
3-Mar-2023	15:00	0.0	WNW
3-Mar-2023	16:00	0.9	ENE
3-Mar-2023	17:00	0.4	E
3-Mar-2023	18:00	0.0	<u>_</u>
3-Mar-2023	19:00	0.0	WNW
3-Mar-2023	20:00	0.0	W
3-Mar-2023	21:00	0.0	WNW
3-Mar-2023	22:00	0.0	WNW
3-Mar-2023	23:00	0.0	WSW
4-Mar-2023	0:00	0.0	WSW
4-Mar-2023	1:00	0.0	WSW
4-Mar-2023	2:00	0.0	WSW
4-Mar-2023	3:00	0.0	WSW
4-Mar-2023	4:00	0.0	WSW
4-Mar-2023	5:00	0.4	WSW
4-Mar-2023	6:00	0.0	WSW
4-Mar-2023	7:00	0.4	WSW
4-Mar-2023	8:00	0.4	WSW
4-Mar-2023	9:00	0.4	WSW
4-Mar-2023	10:00	0.0	WSW
4-Mar-2023	11:00	0.0	WSW
4-Mar-2023	12:00	0.4	WSW
4-Mar-2023	13:00	0.4	SSW
4-Mar-2023	14:00	0.4	WSW
4-Mar-2023	15:00	0.0	WSW
4-Mar-2023	16:00	0.0	WSW
4-Mar-2023	17:00	0.4	ENE
4-Mar-2023	18:00	0.0	ENE
4-Mar-2023	19:00	0.0	NNE
4-Mar-2023	20:00	0.0	WSW
4-Mar-2023	21:00	0.0	WSW
4-Mar-2023	22:00	0.0	WSW
4-Mar-2023	23:00	0.0	WSW
5-Mar-2023	0:00	0.4	WSW
5-Mar-2023	1:00	0.9	WSW
5-Mar-2023	2:00	0.9	WSW
			WSW
5-Mar-2023	3:00 4:00	0.9	WSW
5-Mar-2023		0.0	
5-Mar-2023	5:00	0.0	WSW
5-Mar-2023	6:00	0.0	
5-Mar-2023	7:00	0.0	WSW
5-Mar-2023	8:00	0.0	WSW
5-Mar-2023	9:00	0.0	WSW
5-Mar-2023	10:00	0.4	WSW
5-Mar-2023	11:00	0.0	WNW
5-Mar-2023	12:00	0.4	NW
5-Mar-2023	13:00	0.4	NW

Date	Time	Wind Speed m/s	Direction
5-Mar-2023	14:00	0.4	WSW
5-Mar-2023	15:00	0.4	NW
5-Mar-2023	16:00	0.9	NW
5-Mar-2023	17:00	0.4	WNW
5-Mar-2023	18:00	0.4	NW
5-Mar-2023	19:00	0.0	WNW
5-Mar-2023	20:00	0.0	NW
5-Mar-2023	21:00	0.0	WNW
5-Mar-2023	22:00	0.0	WSW
5-Mar-2023	23:00	0.0	WSW
6-Mar-2023	0:00	0.0	WSW
6-Mar-2023	1:00	0.4	WSW
6-Mar-2023	2:00	0.4	WSW
6-Mar-2023	3:00	0.0	WSW
6-Mar-2023	4:00	0.0	W
6-Mar-2023	5:00	0.0	W
6-Mar-2023	6:00	0.9	W
6-Mar-2023	7:00	0.9	W
6-Mar-2023	8:00	0.4	WSW
6-Mar-2023	9:00	0.9	WSW
6-Mar-2023	10:00	0.4	WSW
6-Mar-2023	11:00	0.4	WSW
6-Mar-2023	12:00	0.4	WSW
6-Mar-2023	13:00	0.4	WSW
6-Mar-2023	14:00	0.9	WNW
6-Mar-2023	15:00	0.9	WSW
6-Mar-2023	16:00	0.9	WSW
6-Mar-2023	17:00	0.4	NNW
6-Mar-2023	18:00	0.0	WNW
6-Mar-2023	19:00	0.0	WSW
6-Mar-2023	20:00	0.0	WSW
6-Mar-2023	21:00	0.4	WSW
6-Mar-2023	22:00	0.4	WSW
6-Mar-2023	23:00	0.9	WSW
7-Mar-2023	0:00	0.4	WSW
7-Mar-2023	1:00	0.0	WSW
7-Mar-2023	2:00	0.0	WSW
7-Mar-2023 7-Mar-2023	3:00	0.0	
7-Mar-2023	4:00	0.0	
	5:00	0.0	
7-Mar-2023			 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
7-Mar-2023	6:00	0.0	WNW
7-Mar-2023	7:00	0.0	WNW
7-Mar-2023	8:00	0.0	WSW
7-Mar-2023	9:00	0.4	WSW
7-Mar-2023	10:00	0.4	WSW
7-Mar-2023	11:00	0.4	WSW
7-Mar-2023	12:00	0.4	NW
7-Mar-2023	13:00	0.4	NNW
7-Mar-2023	14:00	0.4	WSW
7-Mar-2023	15:00	0.4	WSW
7-Mar-2023	16:00	0.4	WSW
7-Mar-2023	17:00	0.9	WSW
7-Mar-2023	18:00	0.4	WSW
7-Mar-2023	19:00	0.0	W
1-1VIGI-2020			

Date	Time	Wind Speed m/s	Direction
7-Mar-2023	21:00	0.0	WSW
7-Mar-2023	22:00	0.0	WSW
7-Mar-2023	23:00	0.0	WSW
8-Mar-2023	0:00	0.0	W
8-Mar-2023	1:00	0.0	SW
8-Mar-2023	2:00	0.0	
8-Mar-2023	3:00	0.0	
8-Mar-2023	4:00	0.0	
8-Mar-2023	5:00	0.0	WSW
8-Mar-2023	6:00	0.0	WNW
8-Mar-2023	7:00	0.0	
8-Mar-2023	8:00	0.4	WNW
8-Mar-2023	9:00	0.0	SW
8-Mar-2023	10:00	0.0	WSW
8-Mar-2023	11:00	0.0	ESE
8-Mar-2023	12:00	0.0	S
8-Mar-2023	13:00	0.9	ENE
8-Mar-2023	14:00	0.9	ENE
8-Mar-2023	15:00	0.9	ENE
8-Mar-2023	16:00	0.9	ENE
8-Mar-2023	17:00	0.4	ENE
8-Mar-2023	18:00	0.4	ENE
8-Mar-2023	19:00	0.0	E
8-Mar-2023	20:00	0.0	
8-Mar-2023	21:00	0.0	
8-Mar-2023	22:00	0.0	WNW
8-Mar-2023	23:00	0.4	WNW
9-Mar-2023	0:00	0.0	NW
9-Mar-2023	1:00	0.0	
9-Mar-2023	2:00	0.0	
9-Mar-2023	3:00	0.0	
9-Mar-2023	4:00	0.0	
9-Mar-2023	5:00	0.0	
9-Mar-2023	6:00	0.0	
9-Mar-2023	7:00	0.0	
9-Mar-2023	8:00	0.0	
9-Mar-2023	9:00	0.0	
9-Mar-2023	10:00	0.0	ENE
9-Mar-2023	11:00	0.0	E
9-Mar-2023	12:00	0.0	<u>_</u>
9-Mar-2023	13:00	0.0	ENE
9-Mar-2023	14:00	0.4	E
9-Mar-2023	15:00	0.4	E
9-Mar-2023	16:00	0.0	<u>Б</u>
			WNW
9-Mar-2023	17:00	0.0	
9-Mar-2023	18:00	0.0	WNW
9-Mar-2023	19:00	0.0	WNW
9-Mar-2023	20:00	0.0	WNW
9-Mar-2023	21:00	0.0	WNW
9-Mar-2023	22:00	0.0	WNW
9-Mar-2023	23:00	0.0	WNW
10-Mar-2023	0:00	0.0	W
10-Mar-2023	1:00	0.0	W
10-Mar-2023	2:00	0.0	W
10-Mar-2023	3:00	0.0	W

Date	Time	Wind Speed m/s	Direction
10-Mar-2023	4:00	0.0	WSW
10-Mar-2023	5:00	0.0	W
10-Mar-2023	6:00	0.4	WSW
10-Mar-2023	7:00	0.0	WSW
10-Mar-2023	8:00	0.4	W
10-Mar-2023	9:00	0.4	WSW
10-Mar-2023	10:00	0.4	WSW
10-Mar-2023	11:00	0.9	WSW
10-Mar-2023	12:00	0.9	NW
10-Mar-2023	13:00	0.9	NNW
10-Mar-2023	14:00	0.9	W
10-Mar-2023	15:00	0.9	W
10-Mar-2023	16:00	0.9	WNW
10-Mar-2023	17:00	0.4	NW
10-Mar-2023	18:00	0.4	WNW
10-Mar-2023	19:00	0.0	WSW
10-Mar-2023	20:00	0.0	WSW
10-Mar-2023 10-Mar-2023	21:00	0.4	WSW
10-Mar-2023 10-Mar-2023	21:00	0.9	WSW
10-Mar-2023 10-Mar-2023			VVOVV
	23:00	0.0	 \\\\
11-Mar-2023	0:00	0.0	W
11-Mar-2023	1:00	0.4	WSW
11-Mar-2023	2:00	0.4	WSW
11-Mar-2023	3:00	0.0	WSW
11-Mar-2023	4:00	0.0	WSW
11-Mar-2023	5:00	0.0	WSW
11-Mar-2023	6:00	0.0	WNW
11-Mar-2023	7:00	0.0	WNW
11-Mar-2023	8:00	0.0	WSW
11-Mar-2023	9:00	0.4	WSW
11-Mar-2023	10:00	0.4	WSW
11-Mar-2023	11:00	0.4	WSW
11-Mar-2023	12:00	0.9	WSW
11-Mar-2023	13:00	0.9	WSW
11-Mar-2023	14:00	0.9	WSW
11-Mar-2023	15:00	0.4	WNW
11-Mar-2023	16:00	0.4	NW
11-Mar-2023	17:00	0.4	NW
11-Mar-2023	18:00	0.4	WSW
11-Mar-2023	19:00	0.4	WSW
11-Mar-2023	20:00	0.0	WSW
11-Mar-2023	21:00	0.0	WNW
11-Mar-2023	22:00	0.0	WNW
11-Mar-2023	23:00	0.0	WNW
12-Mar-2023	0:00	0.0	NW
12-Mar-2023	1:00	0.0	
12-Mar-2023	2:00	0.0	WNW
12-Mar-2023	3:00	0.0	WNW
12-Mar-2023	4:00	0.0	WNW
12-Mar-2023	5:00	0.4	WNW
12-Mar-2023	6:00	0.4	WNW
12-Mar-2023	7:00	0.0	
12-Mar-2023	8:00	0.0	 NIVA/
12-Mar-2023	9:00	0.0	NW
12-Mar-2023	10:00	0.0	N

Date	Time	Wind Speed m/s	Direction
12-Mar-2023	11:00	0.0	WNW
12-Mar-2023	12:00	0.4	E
12-Mar-2023	13:00	0.0	ENE
12-Mar-2023	14:00	0.0	SSW
12-Mar-2023	15:00	0.4	SW
12-Mar-2023	16:00	0.4	SSW
12-Mar-2023	17:00	0.9	SSW
12-Mar-2023	18:00	0.9	SSW
12-Mar-2023	19:00	0.4	SSW
12-Mar-2023	20:00	0.4	SSW
			SSW
12-Mar-2023	21:00	0.4	
12-Mar-2023	22:00	0.4	SSW
12-Mar-2023	23:00	0.4	SW
13-Mar-2023	0:00	0.4	SW
13-Mar-2023	1:00	0.4	WSW
13-Mar-2023	2:00	0.4	SW
13-Mar-2023	3:00	0.4	WSW
13-Mar-2023	4:00	0.4	WSW
13-Mar-2023	5:00	0.4	WSW
13-Mar-2023	6:00	0.4	WSW
13-Mar-2023	7:00	0.0	WSW
13-Mar-2023	8:00	0.4	WSW
13-Mar-2023	9:00	0.4	WSW
13-Mar-2023	10:00	0.4	WSW
13-Mar-2023	11:00	0.0	WSW
13-Mar-2023	12:00	0.0	WSW
13-Mar-2023	13:00	0.4	WSW
13-Mar-2023	14:00	0.0	WSW
13-Mar-2023	15:00	0.0	SSW
13-Mar-2023	16:00	0.0	ENE
13-Mar-2023	17:00	0.0	ENE
13-Mar-2023	18:00	0.4	ENE
13-Mar-2023		0.0	LINE
	19:00		NW
13-Mar-2023	20:00	0.0	0.000
13-Mar-2023	21:00	0.4	WNW
13-Mar-2023	22:00	0.0	W
13-Mar-2023	23:00	0.0	
14-Mar-2023	0:00	0.0	W
14-Mar-2023	1:00	0.0	W
14-Mar-2023	2:00	0.0	W
14-Mar-2023	3:00	0.0	WSW
14-Mar-2023	4:00	0.0	WSW
14-Mar-2023	5:00	0.0	WSW
14-Mar-2023	6:00	0.0	WSW
14-Mar-2023	7:00	0.0	WSW
14-Mar-2023	8:00	0.0	WSW
14-Mar-2023	9:00	0.4	WSW
14-Mar-2023	10:00	0.4	NW
14-Mar-2023	11:00	0.4	WSW
14-Mar-2023	12:00	0.4	NW
14-Mar-2023	13:00	0.9	NW
14-Mar-2023	14:00	0.9	NW
14-Mar-2023	15:00	0.4	WSW
14-Mar-2023	16:00	0.0	ENE
14-Mar-2023	17:00	0.0	NW
14-IVIAI-2U23	17:00	0.9	INVV

14-Mar-2023	Date	Time	Wind Speed m/s	Direction
14-Mar-2023	/lar-2023	18:00	0.0	NW
14-Mar-2023	/lar-2023	19:00	0.0	W
14-Mar-2023 22:00 0.0 WSW 14-Mar-2023 23:00 0.0 WSW 15-Mar-2023 1:00 0.0 WSW 15-Mar-2023 2:00 0.0 WSW 15-Mar-2023 3:00 0.0 WSW 15-Mar-2023 4:00 0.0 W 15-Mar-2023 5:00 0.0 W 15-Mar-2023 6:00 0.4 NW 15-Mar-2023 7:00 0.0 WSW 15-Mar-2023 7:00 0.0 WSW 15-Mar-2023 9:00 0.4 WSW 15-Mar-2023 9:00 0.4 WSW 15-Mar-2023 10:00 0.4 WSW 15-Mar-2023 11:00 0.4 WSW 15-Mar-2023 12:00 0.0 SSW 15-Mar-2023 13:00 0.0 SSW 15-Mar-2023 15:00 0.0 SSW 15-Mar-2023 15:00 0.4 E 15-Mar	/ar-2023	20:00	0.0	WNW
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16-Mar-2023 3:00 0.0 WNW 16-Mar-2023 4:00 0.0 WNW 16-Mar-2023 5:00 0.0 WNW 16-Mar-2023 6:00 0.0 WNW 16-Mar-2023 7:00 0.0 NW 16-Mar-2023 8:00 0.0 NW 16-Mar-2023 9:00 0.0 16-Mar-2023 10:00 0.0 WSW 16-Mar-2023 11:00 0.9 WSW 16-Mar-2023 12:00 0.9 WSW 16-Mar-2023 13:00 0.9 WSW 16-Mar-2023 14:00 0.9 WNW 16-Mar-2023 15:00 0.4 WSW 16-Mar-2023 16:00 0.4 WSW 16-Mar-2023 17:00 0.4 WNW				
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16-Mar-2023 5:00 0.0 WNW 16-Mar-2023 6:00 0.0 WNW 16-Mar-2023 7:00 0.0 NW 16-Mar-2023 8:00 0.0 NW 16-Mar-2023 9:00 0.0 16-Mar-2023 10:00 0.0 WSW 16-Mar-2023 11:00 0.9 WSW 16-Mar-2023 12:00 0.9 WSW 16-Mar-2023 13:00 0.9 WSW 16-Mar-2023 14:00 0.9 WNW 16-Mar-2023 15:00 0.4 WSW 16-Mar-2023 16:00 0.4 WSW 16-Mar-2023 17:00 0.4 WNW				
16-Mar-2023 6:00 0.0 WNW 16-Mar-2023 7:00 0.0 NW 16-Mar-2023 8:00 0.0 NW 16-Mar-2023 9:00 0.0 16-Mar-2023 10:00 0.0 WSW 16-Mar-2023 11:00 0.9 WSW 16-Mar-2023 12:00 0.9 WSW 16-Mar-2023 13:00 0.9 WSW 16-Mar-2023 14:00 0.9 WNW 16-Mar-2023 15:00 0.4 WSW 16-Mar-2023 16:00 0.4 WSW 16-Mar-2023 17:00 0.4 WNW				
16-Mar-2023 7:00 0.0 NW 16-Mar-2023 8:00 0.0 NW 16-Mar-2023 9:00 0.0 16-Mar-2023 10:00 0.0 WSW 16-Mar-2023 11:00 0.9 WSW 16-Mar-2023 12:00 0.9 WSW 16-Mar-2023 13:00 0.9 WSW 16-Mar-2023 14:00 0.9 WNW 16-Mar-2023 15:00 0.4 WSW 16-Mar-2023 16:00 0.4 WSW 16-Mar-2023 17:00 0.4 WNW				
16-Mar-2023 8:00 0.0 NW 16-Mar-2023 9:00 0.0 16-Mar-2023 10:00 0.0 WSW 16-Mar-2023 11:00 0.9 WSW 16-Mar-2023 12:00 0.9 WSW 16-Mar-2023 13:00 0.9 WSW 16-Mar-2023 14:00 0.9 WNW 16-Mar-2023 15:00 0.4 WSW 16-Mar-2023 16:00 0.4 WSW 16-Mar-2023 17:00 0.4 WNW				
16-Mar-2023 9:00 0.0 16-Mar-2023 10:00 0.0 WSW 16-Mar-2023 11:00 0.9 WSW 16-Mar-2023 12:00 0.9 WSW 16-Mar-2023 13:00 0.9 WSW 16-Mar-2023 14:00 0.9 WNW 16-Mar-2023 15:00 0.4 WSW 16-Mar-2023 16:00 0.4 WSW 16-Mar-2023 17:00 0.4 WNW				
16-Mar-2023 10:00 0.0 WSW 16-Mar-2023 11:00 0.9 WSW 16-Mar-2023 12:00 0.9 WSW 16-Mar-2023 13:00 0.9 WSW 16-Mar-2023 14:00 0.9 WNW 16-Mar-2023 15:00 0.4 WSW 16-Mar-2023 16:00 0.4 WSW 16-Mar-2023 17:00 0.4 WNW				NW
16-Mar-2023 11:00 0.9 WSW 16-Mar-2023 12:00 0.9 WSW 16-Mar-2023 13:00 0.9 WSW 16-Mar-2023 14:00 0.9 WNW 16-Mar-2023 15:00 0.4 WSW 16-Mar-2023 16:00 0.4 WSW 16-Mar-2023 17:00 0.4 WNW				
16-Mar-2023 12:00 0.9 WSW 16-Mar-2023 13:00 0.9 WSW 16-Mar-2023 14:00 0.9 WNW 16-Mar-2023 15:00 0.4 WSW 16-Mar-2023 16:00 0.4 WSW 16-Mar-2023 17:00 0.4 WNW				
16-Mar-2023 13:00 0.9 WSW 16-Mar-2023 14:00 0.9 WNW 16-Mar-2023 15:00 0.4 WSW 16-Mar-2023 16:00 0.4 WSW 16-Mar-2023 17:00 0.4 WNW			0.9	
16-Mar-2023 14:00 0.9 WNW 16-Mar-2023 15:00 0.4 WSW 16-Mar-2023 16:00 0.4 WSW 16-Mar-2023 17:00 0.4 WNW	1ar-2023		0.9	
16-Mar-2023 15:00 0.4 WSW 16-Mar-2023 16:00 0.4 WSW 16-Mar-2023 17:00 0.4 WNW	1ar-2023	13:00	0.9	WSW
16-Mar-2023 16:00 0.4 WSW 16-Mar-2023 17:00 0.4 WNW	1ar-2023	14:00	0.9	WNW
16-Mar-2023 17:00 0.4 WNW	1ar-2023	15:00	0.4	WSW
16-Mar-2023 17:00 0.4 WNW	/ar-2023	16:00	0.4	WSW
				WNW
16-Mar-2023 18:00 0.4 W				
16-Mar-2023 19:00 0.0 WSW				
16-Mar-2023 20:00 0.4 WSW				
16-Mar-2023 21:00 0.4 WSW				
16-Mar-2023 22:00 0.0 WSW				
16-Mar-2023 23:00 0.0 WSW				
17-Mar-2023 25:00 0.0 WSW				

Date	Time	Wind Speed m/s	Direction
17-Mar-2023	1:00	0.0	WSW
17-Mar-2023	2:00	0.0	WSW
17-Mar-2023	3:00	0.4	WSW
17-Mar-2023	4:00	0.4	WSW
17-Mar-2023	5:00	0.4	WSW
17-Mar-2023	6:00	0.4	WSW
17-Mar-2023	7:00	0.0	WSW
17-Mar-2023	8:00	0.4	WSW
17-Mar-2023	9:00	0.4	WSW
17-Mar-2023	10:00	0.0	WSW
17-Mar-2023	11:00	0.4	WSW
17-Mar-2023	12:00	0.4	WSW
17-Mar-2023	13:00	0.0	WSW
17-Mar-2023	14:00	0.0	W
17-Mar-2023	15:00	0.4	ENE
17-Mar-2023		0.9	ENE
17-Mar-2023 17-Mar-2023	16:00 17:00	0.9	ENE
17-Mar-2023	18:00	0.0	E
17-Mar-2023	19:00	0.4	WNW
17-Mar-2023	20:00	0.0	WNW
17-Mar-2023	21:00	0.0	WNW
17-Mar-2023	22:00	0.0	W
17-Mar-2023	23:00	0.0	WSW
18-Mar-2023	0:00	0.0	WNW
18-Mar-2023	1:00	0.0	WSW
18-Mar-2023	2:00	0.0	WSW
18-Mar-2023	3:00	0.0	WSW
18-Mar-2023	4:00	0.0	
18-Mar-2023	5:00	0.0	
18-Mar-2023	6:00	0.0	
18-Mar-2023	7:00	0.0	
18-Mar-2023	8:00	0.0	
18-Mar-2023	9:00	0.0	
18-Mar-2023	10:00	0.0	
18-Mar-2023	11:00	0.4	ENE
18-Mar-2023	12:00	0.4	Е
18-Mar-2023	13:00	0.4	E
18-Mar-2023	14:00	0.9	E
18-Mar-2023	15:00	0.4	WSW
18-Mar-2023	16:00	0.4	WSW
18-Mar-2023	17:00	0.4	WSW
18-Mar-2023	18:00	0.9	WSW
18-Mar-2023	19:00	0.4	WSW
18-Mar-2023	20:00	0.4	WSW
18-Mar-2023	21:00	0.9	WSW
18-Mar-2023	22:00	0.9	WSW
18-Mar-2023	23:00	0.4	WSW
19-Mar-2023	0:00	0.4	WSW
19-Mar-2023	1:00	0.4	WSW
19-Mar-2023	2:00	0.4	W
19-Mar-2023	3:00	0.4	WSW
19-Mar-2023	4:00	1.3	WSW
19-Mar-2023	5:00	0.9	WSW
19-Mar-2023	6:00	1.3	WSW
19-Mar-2023	7:00	1.3	WSW
13-Wal-2023	1.00	1.0	VVOVV

Appendix G

Date	Time	Wind Speed m/s	Direction
19-Mar-2023	8:00	1.3	WSW
19-Mar-2023	9:00	0.9	WSW
19-Mar-2023	10:00	0.9	WSW
19-Mar-2023	11:00	0.4	WSW
19-Mar-2023	12:00	1.3	WSW
19-Mar-2023	13:00	0.9	WSW
19-Mar-2023	14:00	0.9	WSW
19-Mar-2023	15:00	0.4	WNW
19-Mar-2023	16:00	0.4	NW
19-Mar-2023	17:00	0.4	WSW
19-Mar-2023	18:00	0.4	WSW
19-Mar-2023	19:00	0.4	WSW
19-Mar-2023	20:00	0.0	WSW
19-Mar-2023	21:00	0.4	WSW
19-Mar-2023	22:00	0.0	WSW
19-Mar-2023	23:00	0.4	WSW
20-Mar-2023	0:00	0.4	WSW
20-Mar-2023	1:00	0.4	WSW
20-Mar-2023	2:00	0.4	WSW
20-Mar-2023	3:00		WSW
		0.4	
20-Mar-2023	4:00	0.4	WSW
20-Mar-2023	5:00	0.4	WSW
20-Mar-2023	6:00	0.4	WSW
20-Mar-2023	7:00	0.4	WSW
20-Mar-2023	8:00	0.4	WSW
20-Mar-2023	9:00	0.4	WSW
20-Mar-2023	10:00	0.9	WSW
20-Mar-2023	11:00	0.4	WSW
20-Mar-2023	12:00	1.3	WSW
20-Mar-2023	13:00	1.3	WSW
20-Mar-2023	14:00	0.4	WSW
20-Mar-2023	15:00	0.4	WNW
20-Mar-2023	16:00	0.4	WSW
20-Mar-2023	17:00	0.4	WSW
20-Mar-2023	18:00	0.4	NW
20-Mar-2023	19:00	0.0	WNW
20-Mar-2023	20:00	0.0	W
20-Mar-2023	21:00	0.0	WNW
20-Mar-2023	22:00	0.0	WNW
20-Mar-2023	23:00	0.0	WNW
21-Mar-2023	0:00	0.0	NW
21-Mar-2023	1:00	0.0	
21-Mar-2023	2:00	0.0	WNW
21-Mar-2023	3:00	0.0	WNW
21-Mar-2023	4:00	0.0	NW
21-Mar-2023	5:00	0.0	WNW
21-Mar-2023	6:00	0.4	WNW
21-Mar-2023	7:00	0.0	WNW
21-Mar-2023	8:00	0.0	WSW
21-Mar-2023	9:00	0.0	WNW
21-Mar-2023	10:00	0.0	NW
21-Mar-2023	11:00	0.4	ENE
21-Mar-2023	12:00	0.4	ENE
21-Mar-2023	13:00	0.4	ENE
21-Mar-2023	14:00	0.4	NE
Z I-IVIAI-ZUZS	14.00	U.4	INE

Date	Time	Wind Speed m/s	Direction
21-Mar-2023	15:00	0.0	ENE
21-Mar-2023	16:00	0.0	ENE
21-Mar-2023	17:00	0.0	NE
21-Mar-2023	18:00	0.0	NNW
21-Mar-2023	19:00	0.0	ENE
21-Mar-2023	20:00	0.0	ENE
21-Mar-2023	21:00	0.0	NE NE
21-Mar-2023	22:00	0.0	ENE
21-Mar-2023	23:00	0.0	ENE
22-Mar-2023	0:00	0.0	ENE
	1:00	0.4	ENE
22-Mar-2023			
22-Mar-2023	2:00	0.0	ENE
22-Mar-2023	3:00	0.0	ENE
22-Mar-2023	4:00	0.0	ENE
22-Mar-2023	5:00	0.0	ENE
22-Mar-2023	6:00	0.0	ENE
22-Mar-2023	7:00	0.0	E
22-Mar-2023	8:00	0.0	ENE
22-Mar-2023	9:00	0.4	ENE
22-Mar-2023	10:00	0.4	ENE
22-Mar-2023	11:00	0.0	ENE
22-Mar-2023	12:00	0.0	ENE
22-Mar-2023	13:00	0.0	ENE
22-Mar-2023	14:00	0.0	NE
22-Mar-2023	15:00	0.0	ENE
22-Mar-2023	16:00	0.0	ENE
22-Mar-2023	17:00	0.0	ENE
22-Mar-2023	18:00	0.0	ENE
22-Mar-2023	19:00	0.0	NE NE
22-Mar-2023	20:00	0.0	ENE
22-Mar-2023	21:00	0.0	ENE
22-Mar-2023	22:00	0.0	ENE
			ENE
22-Mar-2023	23:00	0.0	
23-Mar-2023	0:00	0.0	ENE
23-Mar-2023	1:00	0.0	E
23-Mar-2023	2:00	0.0	ENE
23-Mar-2023	3:00	0.0	NNW
23-Mar-2023	4:00	0.0	NE
23-Mar-2023	5:00	0.0	
23-Mar-2023	6:00	0.0	NE
23-Mar-2023	7:00	0.0	ENE
23-Mar-2023	8:00	0.0	ENE
23-Mar-2023	9:00	0.0	ENE
23-Mar-2023	10:00	0.4	NE
23-Mar-2023	11:00	0.4	ENE
23-Mar-2023	12:00	0.4	ENE
23-Mar-2023	13:00	0.4	ENE
23-Mar-2023	14:00	0.9	ENE
23-Mar-2023	15:00	0.4	ENE
23-Mar-2023	16:00	0.0	ENE
23-Mar-2023	17:00	0.4	ENE
23-Mar-2023	18:00	0.4	ENE
			NE
23-Mar-2023	19:00	0.0	
23-Mar-2023	20:00	0.0	NNW
23-Mar-2023	21:00	0.0	ENE

Date	Time	Wind Speed m/s	Direction
23-Mar-2023	22:00	0.0	NE
23-Mar-2023	23:00	0.0	NW
24-Mar-2023	0:00	0.0	WNW
24-Mar-2023	1:00	0.0	NNW
24-Mar-2023	2:00	0.0	NNE
24-Mar-2023	3:00	0.0	NW
24-Mar-2023	4:00	0.0	WNW
24-Mar-2023	5:00	0.0	NW
24-Mar-2023	6:00	0.0	WNW
24-Mar-2023	7:00	0.0	NW
24-Mar-2023	8:00	0.0	
24-Mar-2023	9:00	0.0	WNW
			E
24-Mar-2023	10:00	0.0	
24-Mar-2023	11:00	0.4	WSW
24-Mar-2023	12:00	0.0	WSW
24-Mar-2023	13:00	0.0	WNW
24-Mar-2023	14:00	0.4	WNW
24-Mar-2023	15:00	0.4	ENE
24-Mar-2023	16:00	0.4	NE
24-Mar-2023	17:00	0.0	ENE
24-Mar-2023	18:00	0.0	NW
24-Mar-2023	19:00	0.0	W
24-Mar-2023	20:00	0.0	W
24-Mar-2023	21:00	0.0	WNW
24-Mar-2023	22:00	0.0	W
24-Mar-2023	23:00	0.0	W
25-Mar-2023	0:00	0.0	WNW
25-Mar-2023	1:00	0.0	WNW
25-Mar-2023	2:00	0.0	WNW
25-Mar-2023	3:00	0.9	NW
25-Mar-2023	4:00	0.0	NW
25-Mar-2023	5:00	0.0	WNW
25-Mar-2023	6:00	0.0	WNW
25-Mar-2023	7:00	0.0	WSW
25-Mar-2023			WSW
	8:00	0.0	WSW
25-Mar-2023	9:00	0.4	
25-Mar-2023	10:00	0.4	WSW
25-Mar-2023	11:00	0.9	WSW
25-Mar-2023	12:00	0.9	WSW
25-Mar-2023	13:00	0.4	WSW
25-Mar-2023	14:00	0.4	WNW
25-Mar-2023	15:00	0.0	WNW
25-Mar-2023	16:00	0.0	WSW
25-Mar-2023	17:00	0.9	WSW
25-Mar-2023	18:00	0.9	WSW
25-Mar-2023	19:00	0.4	W
25-Mar-2023	20:00	0.4	WSW
25-Mar-2023	21:00	0.9	WSW
25-Mar-2023	22:00	0.4	NW
25-Mar-2023	23:00	0.0	WSW
26-Mar-2023	0:00	0.0	WSW
26-Mar-2023	1:00	0.9	W
26-Mar-2023	2:00	0.4	WSW
26-Mar-2023	3:00	0.4	WSW
26-Mar-2023	4:00	0.0	WSW
20-ivial-2023	4.00	1 0.0	VVOVV

Date	Time	Wind Speed m/s	Direction
26-Mar-2023	5:00	0.0	W
26-Mar-2023	6:00	0.4	WSW
26-Mar-2023	7:00	0.0	WSW
26-Mar-2023	8:00	0.4	WSW
26-Mar-2023	9:00	0.4	WNW
26-Mar-2023	10:00	0.4	WNW
26-Mar-2023	11:00	0.0	
26-Mar-2023	12:00	0.0	WSW
26-Mar-2023	13:00	0.0	WSW
26-Mar-2023	14:00	0.0	WSW
26-Mar-2023	15:00	0.0	WSW
26-Mar-2023	16:00	0.0	WSW
26-Mar-2023	17:00	0.0	WSW
26-Mar-2023	18:00	0.0	WSW
26-Mar-2023	19:00	0.0	SSW
26-Mar-2023	20:00	0.0	SW
26-Mar-2023	21:00	0.0	W
26-Mar-2023	22:00	0.0	WSW
26-Mar-2023	23:00	0.0	WSW
27-Mar-2023	0:00	0.0	WSW
27-Mar-2023	1:00	0.0	WSW
27-Mar-2023	2:00	0.0	WSW
27-Mar-2023	3:00	0.0	WSW
27-Mar-2023	4:00	0.0	WSW
27-Mar-2023	5:00	0.4	WSW
27-Mar-2023	6:00	0.0	WSW
27-Mar-2023	7:00	0.0	WSW
27-Mar-2023	8:00	0.9	WSW
27-Mar-2023	9:00	0.4	WSW
27-Mar-2023	10:00	0.9	WSW
27-Mar-2023	11:00	0.9	WSW
27-Mar-2023	12:00	0.4	WSW
27-Mar-2023	13:00	0.4	WSW
27-Mar-2023	14:00	0.0	WSW
27-Mar-2023	15:00	0.0	WSW
27-Mar-2023	16:00	0.0	WSW
27-Mar-2023	17:00	0.0	WSW
27-Mar-2023	18:00	0.0	WSW
27-Mar-2023	19:00	0.0	WSW
27-Mar-2023	20:00	0.4	WSW
27-Mar-2023	21:00	0.0	WSW
27-Mar-2023	22:00	0.4	WSW
27-Mar-2023	23:00	0.0	SW

Date	Time	Wind Speed m/s	Direction
28-Mar-2023	0:00	0.0	SSW
28-Mar-2023	1:00	0.0	WSW
28-Mar-2023	2:00	0.0	WSW
28-Mar-2023	3:00	0.0	WSW
28-Mar-2023	4:00	0.0	WSW
28-Mar-2023	5:00	0.0	WSW
28-Mar-2023	6:00	0.0	WSW
28-Mar-2023	7:00	0.0	WSW
28-Mar-2023	8:00	0.0	WSW
28-Mar-2023	9:00	0.4	WSW
28-Mar-2023	10:00	0.9	WSW
28-Mar-2023	11:00	0.4	WSW
28-Mar-2023	12:00	0.4	WSW
28-Mar-2023	13:00	0.4	WSW
			WSW
28-Mar-2023	14:00	0.0	
28-Mar-2023	15:00	0.4	WSW
28-Mar-2023	16:00	0.0	WSW
28-Mar-2023	17:00	0.0	W
28-Mar-2023	18:00	0.0	WSW
28-Mar-2023	19:00	0.0	W
28-Mar-2023	20:00	0.0	WSW
28-Mar-2023	21:00	0.0	WSW
28-Mar-2023	22:00	0.0	WSW
28-Mar-2023	23:00	0.0	WSW
29-Mar-2023	0:00	0.0	
29-Mar-2023	1:00	0.0	WSW
29-Mar-2023	2:00	0.0	WSW
29-Mar-2023	3:00	0.9	WSW
29-Mar-2023	4:00	0.4	WSW
29-Mar-2023	5:00	0.4	WSW
29-Mar-2023	6:00	0.4	WSW
29-Mar-2023	7:00	0.9	WSW
29-Mar-2023	8:00	0.9	WSW
29-Mar-2023	9:00	0.9	WSW
29-Mar-2023	10:00	0.9	WSW
29-Mar-2023	11:00	0.9	WSW
29-Mar-2023	12:00	1.3	WSW
29-Mar-2023	13:00	0.9	WSW
29-Mar-2023	14:00	0.4	WSW
29-Mar-2023	15:00	0.4	WSW
29-Mar-2023	16:00	0.4	WSW
29-Mar-2023	17:00	0.4	W
			WSW
29-Mar-2023	18:00	0.4	
29-Mar-2023	19:00	0.0	WNW
29-Mar-2023	20:00	0.0	WNW
29-Mar-2023	21:00	0.0	NW
29-Mar-2023	22:00	0.0	WSW
29-Mar-2023	23:00	0.0	WSW
30-Mar-2023	0:00	0.0	WSW
30-Mar-2023	1:00	0.0	SW
30-Mar-2023	2:00	0.0	
30-Mar-2023	3:00	0.0	
30-Mar-2023	4:00	0.0	WSW
30-Mar-2023	5:00	0.0	W
30-Mar-2023	6:00	0.0	WSW

Date	Time	Wind Speed m/s	Direction
30-Mar-2023	7:00	0.0	WSW
30-Mar-2023	8:00	0.0	WSW
30-Mar-2023	9:00	0.0	WSW
30-Mar-2023	10:00	0.0	WSW
30-Mar-2023	11:00	0.0	W
30-Mar-2023	12:00	0.0	WSW
30-Mar-2023	13:00	0.4	WSW
30-Mar-2023	14:00	0.0	WSW
30-Mar-2023	15:00	0.0	W
30-Mar-2023	16:00	0.0	WSW
30-Mar-2023	17:00	0.0	WSW
30-Mar-2023	18:00	0.0	WSW
30-Mar-2023	19:00	0.0	WNW
30-Mar-2023	20:00	0.0	WSW
30-Mar-2023	21:00	0.0	W
30-Mar-2023	22:00	0.0	WSW
30-Mar-2023	23:00	0.0	WSW
31-Mar-2023	0:00	0.0	WSW
31-Mar-2023	1:00	0.0	WSW
31-Mar-2023	2:00	0.0	WSW
31-Mar-2023	3:00	0.4	WSW
31-Mar-2023	4:00	0.0	WSW
31-Mar-2023	5:00	0.0	WSW
31-Mar-2023	6:00	0.0	WSW
31-Mar-2023	7:00	0.0	WSW
31-Mar-2023	8:00	0.0	WSW
31-Mar-2023	9:00	0.0	WSW
31-Mar-2023	10:00	0.4	WSW
31-Mar-2023	11:00	0.4	WSW
31-Mar-2023	12:00	1.3	WSW
31-Mar-2023	13:00	0.9	WSW
31-Mar-2023	14:00	1.3	WSW
31-Mar-2023	15:00	0.4	WSW
31-Mar-2023	16:00	0.9	WSW
31-Mar-2023	17:00	0.4	WSW
31-Mar-2023	18:00	0.4	WSW
31-Mar-2023	19:00	0.9	WSW
31-Mar-2023	20:00	0.4	WSW
31-Mar-2023	21:00	0.9	WSW
31-Mar-2023	22:00	0.9	WSW
31-Mar-2023	23:00	0.4	WSW

APPENDIX H EVENT ACTION PLANS

Appendix H Event / Action Plan for Air Quality

	ACTION					
EVENT	ET	IEC	ER	CONTRACTOR		
ACTION LEVEL						
Exceedance for one sample	 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. 	 Check monitoring data submitted by ET; Check Contractor's working method; and 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; 2. Inform IEC,ER and Contractor; 3. Advise the ER and Contractor on the effectiveness of the proposed remedial measures; 4. Repeat measurements to confirm findings; 5. Increase monitoring frequency to daily; 6. Discuss with IEC, ER and Contractor on remedial actions required; 7. If exceedance continues, arrange meeting with IEC and ER; and 8. 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. 	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; and 3. 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		IEC	ER	CONTRACTOR		
LIMIT LEVEL						
1.Exceedance for one sample	Identify source, investigate the causes of exceedanceand propose remedial measures; 2. Inform ER, Contractor, IEC and EPD; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; 5. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results.	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET, ER and Contractor on possible remedial measures; Advise the ER and ET on the effectiveness of the proposed remedial measures; 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; 2. Identify source; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency to daily; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Arrange meeting with IEC, Contractor and ER to discuss the remedial actions to be taken; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results;	 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, 	 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; Stop the relevant portion of works as 		

EVENT	ACTION						
	ET	IEC	ER	CONTRACTOR			
	8. If exceedance stops, cease additional	of remedial measures.	consider what portion of the	determined by the ER until			
	monitoring.		work is responsible and	the exceedance is abated.			
			instruct the Contractor to stop				
			that portion of work 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. 	1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractors remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; 3. 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 exceeded by two or more consecutive sampling days	. Inform IEC, Contractor and ER; 2. Check monitoring data, all plant, equipment and Contractor's working methods; and 3. Discuss remedial measures with IEC and Contractor and ER. Repeat in-situ measurement on next day of exceedance to confirm findings; 2. Inform IEC, contractor and ER; 3. Check monitoring data, all plant, equipment and Contractor's working	1. Discuss with ET, ER and Contractor on the implemented mitigation measures; 2. Review proposals on remedial measures submitted by Contractor and advise the ER accordingly; and 3. Review and advise the ET and ER on the effectiveness of the implemented mitigation measures. 1. Discuss with ET, Contractor and ER on the implemented mitigation measures; 2. Review the proposed remedial measures submitted by Contractor	1. Discuss with IEC, ET and Contractor on the implemented mitigation measures; 2. Make agreement on the remedial measures to be implemented; 3. Supervise the implementation of agreed remedial measures. 1. Discuss with ET, IEC and Contractor on the proposed mitigation measures; 2. Make agreement on the remedial measures to be implemented; and 3. 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; Inform the ER and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment and
Limit level being exceeded by one sampling day	methods; 4. Discuss remedial measures with IEC, contractor and ER 5. Ensure remedial measures are implemented Repeat measurement on next day of exceedance to confirm findings; 2. Inform IEC, contractor and ER;	and advise the ER accordingly; and 3. Review and advise the ET and ER on the effectiveness of the implemented mitigation measures. 1. Discuss with ET, Contractor and ER on the implemented mitigation measures;	on the effectiveness of the implemented remedial measures. 1. Discuss with ET, IEC and Contractor on the implemented remedial measures;	consider changes of working methods; 5. Discuss with ET, IEC and ER and submit proposal of remedial measures to ER and IEC within 3 working days of notification; and 6. Implement the agreed mitigation measures. 1. Identify source(s) of impact; 2. Inform the ER and confirm notification of the non-compliance in writing;

			Action	
Event	ET	IEC	ER	Contractor
	 Rectify unacceptable practice; Check monitoring data, all plant, equipment and Contractor's working methods; Consider changes of working methods; Discuss mitigation measures with IEC, ER and Contractor; and Ensure the agreed remedial measures are implemented 	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.	 Request Contractor to critically review the working methods; Make agreement on the remedial measures to be implemented; and Discuss with ET, IEC and Contractor on the effectiveness of the implemented remedial measures. 	 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.
Limit level being exceeded by two or more consecutive sampling days	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	 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.

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 I SUMMARY OF EXCEEDANCE

Appendix I: Exceedance Report

Reporting Quarter: January to March 2023

(A) Exceedance Report for Air Quality

Environmental Monitoring	Parameter		n-project xceedance	No. of Exceedance related to the Construction Activities of the Project	
		Action Level	Limit Level	Action Level	Limit Level
A in Ossalitas	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		n-project xceedance	No. of Exc related Constr Activitie Proj	to the uction s of the
		Action Level	Limit Level	Action Level	Limit Level
Noise	L _{eq} (30 min.) dB(A)	1	0	0	0

(C) Exceedance Report for Water Quality

Environmental Monitoring	Parameter	related Ex		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 J ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)

EIA 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	۸
	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					۸
		provided to regulated machines					
S3.8	D2-DP	Following dust suppression measures should also be	Minimize dust impact at	Contractor	All construction	Construction	^
	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				*
		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					

EIA 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 	Concerns to address	measures?			A A
		 impervious sheeting; Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by 					^

EIA 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 					N/A
		 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 					N/A
		 pollution control system; and 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 	noise				۸
		possible, be orientated so that the noise is directed away from nearby NSRs; silencers or mufflers on construction					۸

EIA 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- DP1/D P2/DP3	Install temporary site hoarding (approx 2.4m high) located on the site boundaries between noisy construction activities and NSRs. The conditions of the hoardings shall be properly maintained throughout the construction period.	Reduce the construction noise levels at low-level zone of NSRs through	Contractor	All construction sites where practicable	Construction phase	۸
			partial screening.				
S4.8	N-CP3- DP1/D P2/DP3	Install movable noise barriers and full enclosure, screen the noisy plants including air compressor and generator.	Screen the noisy plant items to be used at all construction sites	Contractor	All construction sites where practicable	Construction phase	۸
S4.8	N-CP4- DP1/D P2/DP3	Use of "Quiet" Plant and Working Methods	Reduce the noise levels of plant items	Contractor	All construction sites where practicable	Construction phase	۸
S4.8	N-CP5- DP1/D P2/DP3	Sequencing operation of construction plants where practicable.	Operate sequentially within the same work site to reduce the construction airborne noise	Contractor	All construction sites where practicable	Construction phase	۸
S4.8	N-CP6- DP2	Setting the concrete lorry mixer at around 25m away from the existing NSRs along Ha Wan Tsuen Road and Lok Ma Chau Road	Reduce the noise levels from concrete lorry mixer	Contractor	Sections with NSRs along Ha Wan Tsuen Road and Lok	Construction phase	۸

EIA 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	*
	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	ality Impac	t (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,	site runoff and general		practicable		
		1994 (ProPECC PN 1/94), construction phase mitigation measures.	construction activities				
		where appropriate, should include the following:					
		Update and implementation of Stormwater Pollution Control Plan					۸
		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.					

EIA 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?			
		Diversion of natural stormwater should be provided as far					٨
		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.					۸
		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					۸
		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					

Ref Ref Ref Ref Ref Ref Ref Ref	
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.	
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.	
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.	
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 ProPECC PN 1/94. Particular attention should be paid to	* *

EIA 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?			
		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					٨
		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					٨
		water drainage system after accidental spillage. A bypass					
		should be provided for the oil interceptors to prevent					
		flushing during heavy rain.					
		Construction solid waste, debris and rubbish on site					*
		should be collected, handled and disposed of properly to					
		avoid water quality impacts.					
		All fuel tanks and storage areas should be provided with					
		locks and sited on sealed areas, within bunds of a					٨
		capacity equal to 110% of the storage capacity of the					
		largest tank to prevent spilled fuel oils from reaching					
		water sensitive receivers nearby.					
		Regular environmental audit on the construction site					
		should be carried out in order to prevent any					
		malpractices. Notices should be posted at conspicuous					
		locations to remind the workers not to discharge any					

EIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the recommended	Who to	Location of the	When to	Implementation Status
	Log			implement	measures	Implement the	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.	contaminated area		found.		N/A
		Additional investigation is required to identify if					
		contaminated groundwater is found.If the investigation results indicated that the groundwater					N/A
		to be generated from construction works would be					14/7.
		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 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.	Minimize water quality	Contractor	All construction	Construction	
33.1		Sewage from Workforce	Minimize water quality	Contractor			
	-DP1/D	Portable chemical toilets and sewage holding tanks chould be provided for handling the construction sewage.	from sewage effluent		sites where	phase	۸
	P2/DP3	should be provided for handling the construction sewage generated by the workforce. A licensed contractor should			practicable		
		be employed to provide appropriate and adequate					

EIA 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	impact from bio-remediation of Shenzhen River		where practicable	phase	N/A
		receiving water is recorded, additional measures such as slowing down, or rescheduling of works should be					

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	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.	or smage crossing		practicable		N/A
		All the fishponds will be drained and no fishpond will be			practicable		IN/A
		affected by bridge crossing.					
		 In the meander, cofferdam or diaphragm walls should be 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.					

EIA 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 Management (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:						
							٨	
		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;					^	
		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	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	waste reduction, reuse and recycling. Prepare Waste Management Plan and submit to the Engineer for			A.II	0 1 11	^	
S7.6	WM2-D	approval	Minimize waste	Contractor	All construction	Construction	^	
	P1/DP2	THE STATE OF THE S	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					^	

EIA 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?			
		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;					۸
		Provision of sufficient waste disposal points and regular collection for disposal;					۸
		 Appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers; 					۸
		 Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors; 					۸
S7.6	WM4-D	Storage of Waste	Minimize waste	Contractor	All construction	Construction	
	P1/DP2	The following recommendation should be implemented to	generation during		sites	phase	
	/DP3	minimize the impacts: • Waste such as soil should be handled and stored well to	construction				۸
		 ensuresecure 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 					۸
		material to enhance reuse;					
S7.6	WM5-D	Collection and Transportation of Waste	Minimize waste impact	Contractor	All construction	Construction	
	P1/DP2 /DP3	The following recommendation should be implemented to minimize the impacts:	from storage		sites	phase	۸
		 Remove waste in timely manner; Employ the trucks with cover or enclosed containers for 					٨

EIA 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 transportation; 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 the excavated and C&D materials:	from excavated and C&D material		sites	phase	۸
		 Maintain temporary stockpiles and reuse excavated fill material for backfilling; Carry out on-site sorting; Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate; and Implement a trip-ticket system for each works contract to ensure that the disposal of C&D materials are properly documented and verified. The recommended C&D materials handling should include: On-site Sorting of C&D Materials Reuse of C&D Materials 					^ ^ ^
		 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 As a precaution, it is recommended that standard good site	Remediate contaminated	Contractor	All construction	Construction	

EIA 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?			
	P1/DP2 /DP3	practice should be implemented during the construction phase to 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.	soil		sites where applicable	phase	N/A
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	*
	/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	٨
	/DP3	separately from construction and chemical wastes.	avoid odour, pest and				
		Recycling bins should also be placed to encourage	litter impacts				
		recycling.					٨
		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.		_			٨

EIA 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?			
		A reputable waste collector should be employed to remove					
		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					۸
		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

EIA 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.					
		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 Con	tamination						
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					

EIA 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?			
		means;					
		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				

EIA 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?			
		Mixing process and other associated material handling	of contaminated materials				N/A
		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	

EIA 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?			
		Provide written information and training on safety for site	and safety of construction				
		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	۸
	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		

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	Log		recommended	implement	measures	Implement the	Status
	Ref		Measures & Main	the		measures?	
			Concerns to address	measures?			
					the adjacent		
					areas in Hong		
					Kong outside		
					LMC Loop		
Landscap	e and Visu	al Impact (Construction Phase)		<u>, </u>			
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	<u>Practice)</u>	protection of existing	design	site	and construction	
.9	P3	The proposed works should avoid disturbance to the	trees	consultant/		phase	۸
		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.					۸
		Trees which are not in conflict with the proposals would be					
		retained and shall be protected by means of fencing during					

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	Log		recommended	implement	measures	Implement the	Status
	Ref		Measures & Main	the		measures?	
			Concerns to address	measures?			
		construction phase to prevent damage to tree canopies					
		and root zones from vehicles and storage of materials.					۸
		Specifications for the protection of existing trees will be					
		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	^
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					^
		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.					

EIA 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?			
	L-CP4-	Transplantation of Existing Trees	Minimize landscape	Contractor	The whole	Construction	
	DP1/D	Some specimens have relatively higher amenity value	impacts		project area	phase	٨
	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					٨
		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	٨

EIA 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?			
	P2	the project will be reinstated as part of the Ecological Area.		Detailed	where	operational	
		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			۸
		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					۸
		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.					٨
		· 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	٨
	P2/DP3	projects to minimise impacts and where possible reduce			where		

EIA 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 period of disturbance.			applicable		
S11.6.5	V-CP1-	Preservation and Protection of Existing Trees (Good Site	Minimise visual impact	Detailed	The whole	Detailed design	٨
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	расс	0011111110101	project area	phase	
	J. 0	shall be optimized in order to minimize the duration of			where	pridee	
		impact.			applicable		
		Construction site controls shall be enforced including the			аррисави		
		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					
		around the construction site providing screening effect for					
		the construction works.					
		The site office or temporary above-ground structures shall					
1		The same state of the same sta					

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	Log		recommended	implement	measures	Implement the	Status
	Ref		Measures & Main	the		measures?	
			Concerns to address	measures?			
		be sited at less visual prominent locations.					
	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	٨
	DP3	Coordinated implementation programme with concurrent			project area	phase	
		projects to minimise impacts and where possible reduce			where		
		the period of disturbance.			applicable		
Ecology (0	Constructi	on Phase)					
S12.7	E1-DP1	<u>Disturbance to Fish Ponds at HHW</u>	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					

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	Log		recommended	implement	measures	Implement the	Status
	Ref		Measures & Main	the		measures?	
			Concerns to address	measures?			
		Erection of a 3m high, dull green site boundary fence to					*
		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,					۸
		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					

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	Log		recommended	implement	measures	Implement the	Status
	Ref		Measures & Main	the		measures?	
			Concerns to address	measures?			
		properly covered and located away from nearby water					
		bodies;					٨
		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					۸
		properly collected and/or treated. Wastewater from any					
		construction site will be minimised via the following in					
		descending order: reuse, recycling and treatment;					۸
		Proper locations for discharge outlets of wastewater					
		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);					۸
		Adequate lateral support will be erected where necessary					
		in order to prevent soil/mud from slipping into the					
		Ecological Area or LMC Meander;					۸
		Site boundary will be clearly marked and any works beyond					
		the boundary strictly prohibited;					۸
		Regular water monitoring and site audit will be carried out					
		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					

EIA 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?			
		considered.					
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,	۸
	/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	۸
		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:					

EIA 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?			
		Fritting, or the placement of ceramic lines or dots on glass,					٨
		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					

EIA 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?			
		lighting at or near the top of buildings or other structures. In 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,	^
	/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.					^
		3m high, dull green site boundary fence for all					۸
		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

EIA 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?			
		between one hour prior to sunset and one hour after					
		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					^
		area provide a wider Ecological Area to minimize					
		disturbance from nearby buildings.					

EIA 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?			
		•	Further minimisation of impact by maintaining a lower					N/A
			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	٨
	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					٨
			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	٨
	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	٨
			shrubs along length of road adjacent to fish ponds.	impacts		Tsuen Road)		
			Compensatory habitat management elsewhere to mitigate					٨
			wetland loss.					
S12.7	E13-DP		Use of viaduct alignment to minimize wetland loss.	Minmize wetland loss	Project	Within project	Detailed design	٨

EIA 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?			
	3		Compensatory wetland habitat elsewhere.		Proponent /	site	and	
					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	۸
		•	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	

EIA 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?			
			Western Connection	Detailed	Western	operation	
			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

EIA 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?			
S13.7	F4-DP3	During the construction phase, a layer of sheet pile wall will be 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.	Bund stability	Contractor	Fish ponds	Construction phase	N/A
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	۸
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 	Dust minimization	Contractor	Fish ponds	Construction phase	۸

EIA 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					

EIA 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.					
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; • Chemicals or hazardous materials used on-site (and their	Deal with any accidental spillage event	Contractor / Operator	Fish ponds	Construction and operational phases	
		location);					
		Emergency response team;					
		Emergency response procedures; List of an arranguatalanhana hattingar.					
		List of emergency telephone hotlines;					
		Locations and types of emergency response equipment;					

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures • Training plan and testing for effectiveness.	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
Food Safe	ty (Constr	ruction Phase)			l		
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.	Dust minimization	Contractor	Fish pond within project site	Construction phase	۸

EIA 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?			
		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;					
		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					

EIA 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?			
		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;					
		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)

APPENDIX K SITE AUDIT SUMMARY

Appendix K: Site Audit Summary

Table K-1: Observations and Recommendations of Site Audit in January 2023

Parameters	Date	Observations and Recommendations	Follow-up
Contract No. YL	/2020/01		
Air Quality		No major environmental deficiency was	
Air Quanty		identified during the reporting month.	
Maina		No major environmental deficiency was	
Noise		identified during the reporting month.	
Water Ovality		No major environmental deficiency was	
Water Quality		identified during the reporting month.	
Waste / Chemical		No major environmental deficiency was	
Management		identified during the reporting month.	
		No major environmental deficiency was	
Land Contamination		identified during the reporting month.	
Landscape and		No major environmental deficiency was	
Visual		identified during the reporting month.	
F /		No major environmental deficiency was	
Ecology		identified during the reporting month.	
E'ul'.		No major environmental deficiency was	
Fisheries		identified during the reporting month.	
Permits/Licences		No major environmental deficiency was	
Permits/Licences		identified during the reporting month.	
Contract No. YL	/2020/02		
Air Quality		No major environmental deficiency was	
		identified during the reporting month.	
Noise		No major environmental deficiency was	
		identified during the reporting month.	
		Provide sand bag bund or similar	
	12/01/2023	measures to enclose the storage area for	
		excavated materials at CS1 and RW9.	session on 18/01/2023.
		The tarpaulin sheet shall be regularly	The tarpaulin sheet was regularly
		inspected and maintained to ensure the	inspected and maintained to
Water Quality	12/01/2023	exposed slopes are covered completely.	cover the exposed slopes
	12/01/2023		completely by the Contractor as
			observed during follow-up audit
			session on 18/01/2023.
	18/01/2023	Provide sand bag bund or similar	Follow-up action was required as
	10/01/2023	measures to enclose the storage area for	observed during follow-up audit

Parameters	Date	Observations and Recommendations	Follow-up
		excavated materials at CS1 and RW9.	session on 26/01/2023.
		Clear the accumulated sediment at the	The accumulated sediment at the
		drip tray for the air compressor at	drip tray for the air compressor
	12/01/2023	TAR1.	was cleared by the Contractor as
			observed during follow-up audit
/			session on 18/01/2023.
Waste / Chemical		Clear the construction wastes / materials	The construction wastes /
Management		at open drainage channel at RW9.	materials at open drainage
			channel were cleared by the
	12/01/2023		Contractor as observed during
			follow-up audit session on
			18/01/2023.
		No major environmental deficiency was	
Land Contamination		identified during the reporting month.	
Landscape and		No major environmental deficiency was	
Visual		identified during the reporting month.	
		No major environmental deficiency was	
Ecology		identified during the reporting month.	
		No major environmental deficiency was	
Fisheries		identified during the reporting month.	
D 1. (7.1		No major environmental deficiency was	
Permits/Licences		identified during the reporting month.	
Contract No. YL	/2021/01		
Air Quality		No major environmental deficiency was	
2 3		identified during the reporting month.	
Noise		No major environmental deficiency was	<u></u>
		identified during the reporting month.	
Water Quality		No major environmental deficiency was	
		identified during the reporting month.	
Waste / Chemical		No major environmental deficiency was	
Management		identified during the reporting month.	
Land Contamination		No major environmental deficiency was	
		identified during the reporting month.	
Landscape and		No major environmental deficiency was	
Visual	_	identified during the reporting month.	-
Ecology		No major environmental deficiency was	
Ecology		identified during the reporting month.	

Parameters	Date	Observations and Recommendations	Follow-up
Fisheries		No major environmental deficiency was identified during the reporting month.	
Permits/Licences		No major environmental deficiency was identified during the reporting month.	

Table K-2: Observations and Recommendations of Site Audit in February 2023

Parameters	Date	Observations and Recommendations	Follow-up
Contract No. YL	/2020/01		
Air Quality		No major environmental deficiency was	
Air Quanty		identified during the reporting month.	
A7. *		No major environmental deficiency was	
Noise		identified during the reporting month.	
		The exposed slope next to the meander	The exposed slope was covered
		should be covered properly with	completely with tarpaulin sheet
Water Quality	08/02/2023	tarpaulin sheet.	by the Contractor as observed
			during follow-up audit session on
			15/02/2023.
Waste / Chemical		No major environmental deficiency was	
Management		identified during the reporting month.	
		No major environmental deficiency was	
Land Contamination	!	identified during the reporting month.	
Landscape and		No major environmental deficiency was	
Visual		identified during the reporting month.	
		The green fence surrounding the works	The green fence surrounding the
		for meander bridge should be properly	works for meander bridge were
England		erected.	properly erected by the
Ecology			Contractor as observed during
			follow-up audit session on
			01/03/2023.
Eighi		No major environmental deficiency was	
Fisheries		identified during the reporting month.	
Damesta /F to an a		No major environmental deficiency was	
Permits/Licences		identified during the reporting month.	
Contract No. YL	/2020/02		
		The idle stockpiles of dusty materials	Idle stockpiles of dusty materials
Air Quality	22/02/2023	should be covered with tarpaulin sheet	have been covered with tarpaulin
		at TAR1.	sheets as observed during

Parameters	Date	Observations and Recommendations	Follow-up
			follow-up audit session on 01/03/2023
Noise	15/02/2023	The temporary noise barrier at Lok Ma Chau Road should be maintained properly. Provided sand bag bund shall be enhanced to ensure the enclosure of the excavated materials at CS1 and RW9.	The temporary noise barrier at Lok Ma Chau Road have been maintained properly by the Contractor as observed during follow-up audit session on 01/03/2023. Sand bag bund has been established to enclose the excavated materials at CS1. The storage of excavated materials at RW9 has been removed by the Contractor as observed during follow-up audit session on
Water Quality	08/02/2023	The sedimentation tank with accumulated sediment should be cleared regularly to ensure adequate capacity for setting site surface runoff.	15/02/2023. The sediment tank has been cleared to ensure the adequate capacity by the Contractor as observed during follow-up audit session on 15/02/2023.
		The exposed slope next to the nullah at LCS should be covered properly with tarpaulin sheet.	The exposed slope has been covered with tarpaulin sheet by the Contractor as observed during follow-up audit session on 22/02/2023.
			Water level in the retention pond had been maintained and lowered by the Contractor as observed during follow-up audit session on 01/03/2023.
Waste / Chemical Management		The oil leakage at the drip tray for the air compressor at CS1 should be properly cleared as chemical waste.	The oil leakage was cleared and enhanced measures to deploy tarpaulin sheet as a secondary spill containment was also provided by the Contractor as observed during follow-up audit

Parameters	Date	Observations and Recommendations	Follow-up
			session on 15/02/2023.
		To clear and avoid the oil leakage from	The oil leakage has been cleared
	15/02/2022	the air compressor at CS1.	by the Contractor as observed
	15/02/2023		during follow-up audit session on
			01/03/2023.
I and Constanting the		No major environmental deficiency was	
Land Contamination		identified during the reporting month.	
Landscape and		No major environmental deficiency was	
Visual		identified during the reporting month.	
T. 1		No major environmental deficiency was	
Ecology		identified during the reporting month.	
F7: 1		No major environmental deficiency was	
Fisheries		identified during the reporting month.	
D 1. (7.1		No major environmental deficiency was	
Permits/Licences		identified during the reporting month.	
Contract No. YL	/2021/01		
		Provide dust suppression measures for	Exposed site area have been
	06/02/2023	the exposed site area at EEAA	sprayed with water regularly by
Air Quality			the Contractor as observed
			during follow-up audit session on
			13/02/2023.
Noise		No major environmental deficiency was	
Noise		identified during the reporting month.	
		To arrange a designated wheel washing	Wheel washing area are in place
		area so that the wheel washing water	with sand bags to redirect wheel
W. dan O Pa	20/02/2022	can be collected properly and replace	washing water to nearby pit by
Water Quality	20/02/2023	the damaged sand bag at the site exit	the Contractor as observed
		(EEAA).	during follow-up audit session on
			06/03/2023.
Waste / Chemical		No major environmental deficiency was	
Management		identified during the reporting month.	
		No major environmental deficiency was	
Land Contamination		identified during the reporting month.	
Landscape and		No major environmental deficiency was	
Visual		identified during the reporting month.	
r :		No major environmental deficiency was	
Ecology		identified during the reporting month.	

Parameters	Date	Observations and Recommendations	Follow-up
Fisheries		No major environmental deficiency was identified during the reporting month.	
Permits/Licences		No major environmental deficiency was identified during the reporting month.	-1-

Table K-3: Observations and Recommendations of Site Audit in March 2023

Parameters	Date	Observations and Recommendations	Follow-up
Contract No. YL	/2020/01		
	15/03/2023	Green nets used to cover the stockpile at Box Culvert A should be replaced by impermeable tarpaulin sheets.	Stockpile at Box Culvert A has been cleared by the Contractor as observed during follow-up audit session on 22/03/2023.
Air Quality	22/03/2023	The dusty stockpiles at Box Culvert C should be covered with impervious tarpaulin sheets.	The dusty stockpile at Box culvert C was cleared the Contractor as observed during follow-up audit session on 29/03/2023.
Noise		No major environmental deficiency was identified during the reporting month.	
Water Quality	22/03/2023	Exposed slopes at pond 5 shall be covered with tarpaulin sheets.	Slope at pond 5 has been covered with tarpaulin sheets by the Contractor as observed during follow-up audit session on 29/03/2023.
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		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.	
Contract No. YL	/2020/02		

Parameters	Date	Observations and Recommendations	Follow-up
	01/03/2023	To ensure vehicles leave the site at Reed Bed 3A without debris of dirt.	Vehicles were cleaned at Reed Bed 3A as observed during follow-up audit session on 08/03/2023.
Air Quality	15/03/2023	The idle stockpiles of dusty materials should be covered entirely with impervious tarpaulin sheet at TAR1.	The stockpile has been sprayed with water regularly as observed during follow-up audit session on 29/03/2023.
Noise		No major environmental deficiency was identified during the reporting month.	
	15/03/2023	To further clear the muddy blockage at the perimeter cut-off drain at CS1.	The muddy blockages have been cleared by the Contractor as observed during follow-up audit session on 22/03/2023.
Water Quality		To enhance the water mitigation measure at the sloped opening at site boundary of LCS.	Sandbag has been placed at the boundary of LCS by the Contractor as observed during follow-up audit session on 22/03/2023.
		To enhance water mitigation measures around existing drainage at Reed Bed 3.	Existing drainage have been blocked with sandbags, barricaded and covered by the Contractor as observed during follow-up audit session on 29/03/2023.
	01/03/2023	To provide drip trays for chemical storages at CS1 and LCS.	The chemical containers were removed from the site by the Contractor as observed during follow-up audit session on 08/03/2023.
Waste / Chemical Management Land Contaminatio	15/03/2023	To clear the existing oil leakage and avoid further leakage from the air compressor at CS1 and the hammer drill at LCS. No major environmental deficiency was	by the Contractor as observed during follow-up audit session on 22/03/2023.

Parameters	Date	Observations and Recommendations	Follow-up
		identified during the reporting month.	
Landscape and		No major environmental deficiency was	
Visual		identified during the reporting month.	
F 1		No major environmental deficiency was	
Ecology		identified during the reporting month.	
		No major environmental deficiency was	
Fisheries		identified during the reporting month.	
5		No major environmental deficiency was	
Permits/Licences		identified during the reporting month.	
Contract No. YL	/2021/01		
Air Quality		No major environmental deficiency was	
2 3		identified during the reporting month.	
		To provide further mitigation measures	More temporary noise barriers
		at EEAA.	have been in place by the
Noise	06/03/2023		Contractor to minimise
110150	00/03/2023		construction noise as observed
			during follow-up audit session on
			13/03/2023.
		To enhance water mitigation measure	The stockpile of soil next to the
		for the stockpile of soil next to the site	site boundary of EEAA has been
	13/03/2023	boundary of EEAA.	properly covered by the
	13/03/2023		Contractor as observed during
			follow-up audit session on
			20/03/2023.
Water Quality		The silt retention pond should be	The silt retention pond had been
		properly connected to the wetsep for	properly connected to the
		treatment at EEAA.	sedimentation tank and WetSep
	27/03/2023		for treatment at EEAA via a
			pump by the Contractor as
			observed during follow-up audit
			session on 03/04/2023
Waste / Chemical		No major environmental deficiency was	
Management		identified during the reporting month.	
		No major environmental deficiency was	
Land Contamination		identified during the reporting month.	
Landscape and		No major environmental deficiency was	
II .		identified during the reporting month.	

Parameters	Date	Observations and Recommendations	Follow-up
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.	

APPENDIX L WASTE GENERATION IN THE REPORTING PERIOD

Monthly Summary Waste Flow Table for 2023 (year)

Name of Person completing the record: Lila Lui (EO)

Developmen	t of Lok Ma Chau Lo	op : Main Works	Package 1 – Cor	ntract 1 Site Form	ation and Infrastru	cture Works inside	e Lok Ma Chau I	Loop and Wester	n Connection		Contract No.: YL/2	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-23	0.491	0.000	0.000	0.000	0.491	0.919	0.000	0.067	0.000	0.000	0.000	0.018
Feb-23	0.715	0.000	0.000	0.000	0.715	0.000	0.000	0.150	0.000	1.100	0.000	0.027
Mar-23	1.129	0.000	0.000	0.000	1.129	0.000	0.012	0.132	0.016	0.000	0.000	0.032
Apr-23												
May-23												
Jun-23												
Sub-total	2.335	0.000	0.000	0.000	2.335	0.919	0.012	0.349	0.016	1.100	0.000	0.076
Jul-23												
Aug-23												
Sep-23												
Oct-23												
Nov-23		·							·	·		
Dec-23		_				_		_	_	_	_	
Total	2.335	0.000	0.000	0.000	2.335	0.919	0.012	0.349	0.016	1.100	0.000	0.076

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

Monthly Summary Waste Flow Table for 2023 (year)

Name of Person completing the record: Calvin So (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	oad Link Phase	1				Contract No.: YL	/2020/02	
		Actual Quantit	ies of Inert C&l	D Materials Ger	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	0.432	0.000	0.000	0.000	0.432	0.000	0.000	0.000	0.000	0.000	0.428	
Feb	0.257	0.000	0.000	0.000	0.257	0.095	0.000	0.000	0.000	0.000	0.403	
Mar	1.359	0.000	0.000	0.000	1.359	0.090	0.000	0.004	0.001	0.000	0.171	
Apr	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
May	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Jun	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Sub-total	2.048	0.000	0.000	0.000	2.048	0.185	0.000	0.004	0.001	0.000	1.001	
Jul	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Aug	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Sep	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Oct	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
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	2.048	0.000	0.000	0.000	2.048	0.185	0.000	0.004	0.001	0.000	1.001	

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.

Monthly Summary Waste Flow Table for 2023 (year)

Name of Person completing the record: Tino Law

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 I										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-23	0.597	0.000	0.000	0.000	0.597	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Feb-23	0.329	0.000	0.000	0.000	0.329	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Mar-23	0.707	0.000	0.000	0.000	0.707	0.000	0.011	0.000	0.005	0.000	0.000	0.001
Apr-23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
May-23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Jun-23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Sub-total	1.633	0.000	0.000	0.000	1.633	0.000	0.011	0.000	0.005	0.000	0.000	0.001
Jul-23	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-23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Sep-23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Oct-23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Nov-23	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-23	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	1.633	0.000	0.000	0.000	1.633	0.000	0.011	0.000	0.005	0.000	0.000	0.001

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

APPENDIX M COMPLAINT LOG

Appendix M - 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		
				Chau Loop" project to	Further preventive measures, such as increasing the height	
				Shenzhen River in the		
				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	Tumboon No. 9 (Transpol evalence Lien Doole) was beinted	
				"Development of Lok Ma	Typhoon No. 8 (Tropical cyclone: Lion Rock) was hoisted on 9 October 2021. Severe rainfall was recorded due to	
				Chau Loop" project on		
				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	
					ET Tenninged the Contractor to update the site dramage	

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
					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
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.	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. 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 20th 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
					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.	
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")	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 27th and 28th 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/2021/01 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/2021/01 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-	3 March 2023	EPD	EPD File	The complaint was lodged by	Contract No.: YL/2021/01	Interim report
2023- 03-01	2023		Ref.: N06/RN/00	a resident of Shenzhen City "附件有视频 ,拍不到做工	According to the interim report, the piling works were	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让特别是老人,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 8th 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 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.	Mar 2023

APPENDIX N SUMMARY OF SUCCESSFUL PROSECUTION

Appendix N - Summary of Successful Prosecution

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

APPENDIX O MONITORING SCHEDULE FOR THE PRESENT AND NEXT REPORTING QUARTER

Service Contract No. WD/04/2020 Impact Monitoring Schedule (January 2023)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1-Jan	2-Jan	3-Jan	4-Jan		6-Jan	7-Jan
		1hr TSP X 3 Noise Water Quality Monitoring	24hr TSP	Aquatic Fauna Survey (Water Quality Monitoring only) 1hr TSP X 3 Water Quality Monitoring		Water Quality Monitoring
8-Jan	9-Jan	10-Jan	11-Jan	12-Jan		14-Jan
	Water Quality Monitoring	24hr TSP	1hr TSP X 3 Noise Water Quality Monitoring		Aquatic Fauna Survey (Water Quality Monitoring only) Water Quality Monitoring	
15-Jan	16-Jan	17-Jan	18-Jan	19-Jan	20-Jan	21-Jan
	24hr TSP Water Quality Monitoring	1hr TSP X 3 Noise	Aquatic Fauna Survey Water Quality Monitoring		1hr TSP X 3 24hr TSP Water Quality Monitoring Avifauna flight line survey	
22-Jan	23-Jan	24-Jan	25-Jan	26-Jan	27-Jan	28-Jan
	Site	e Closed		Aquatic Fauna Survey (Water Quality Monitoring only) 1hr TSP X 3 Noise		
				24hr TSP		W. O. D. M. G.
29-Jan	30-Jan	31-Jan		Water Quality Monitoring		Water Quality Monitoring
27-9an	Water Quality Monitoring	24hr TSP				

Air Quality Monitoring Station

DMS-1a - Village House along Ha Wan Tsuen East Road

DMS-2A - Village house along Lok Ma Chau Road

DMS-2B - Site boundary near Village House along Lok Ma Chau

(Starting from 20 Jan 23)

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 Impact Monitoring Schedule (February 2023)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1-Feb	2-Feb	3-Feb	4-Feb
			Aquatic Fauna Survey (Water			
			Quality Monitoring only)			
			1hr TSP X 3			
			Noise			
			Water Quality Monitoring		Water Quality Monitoring	
5-Feb	6-Feb	7-Feb	8-Feb	9-Feb	10-Feb	11-Feb
			Aquatic Fauna Survey (Water			
		1hr TSP X 3	Quality Monitoring only)			
		Noise				
	24hr TSP				24hr TSP	
	Water Quality Monitoring		Water Quality Monitoring		Water Quality Monitoring	
12-Feb	13-Feb	14-Feb	15-Feb	16-Feb	17-Feb	18-Feb
			Aquatic Fauna Survey (Water			
	1hr TSP X 3		Quality Monitoring only)		1hr TSP X 3	
	Noise					
	Water Quality Monitoring		Water Quality Monitoring	24hr TSP	Water Quality Monitoring	
19-Feb	20-Feb	21-Feb	22-Feb	23-Feb	24-Feb	25-Feb
	Aquatic Fauna Survey			1hr TSP X 3		
				Noise		
			24hr TSP			
	Water Quality Monitoring		Water Quality Monitoring		Water Quality Monitoring	
					Avifauna flight line survey	
26-Feb		28-Feb				
	Aquatic Fauna Survey (Water					
	Quality Monitoring only)					
		24hr TSP				
	Water Quality Monitoring					
	1					

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 **Impact Monitoring Schedule (March 2023)**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1-Mar	2-Mar	3-Mar	4-Mai
			Avifauna Survey (Pond 12) 1hr TSP X 3			
			Noise		Herpetofauna Survey	
			Water Quality Monitoring		Water Quality Monitoring	
5-Mar	· 6-Mar	7-Mar	8-Mar	9-Mar	10-Mar	11-Mar
	Avifauna Survey (Pond 12)	1hr TSP X 3	Aquatic Fauna Survey (Water Quality Monitoring only)			
	24hr TSP	Noise			24hr TSP	
	Water Quality Monitoring		Water Quality Monitoring		Water Quality Monitoring	
12-Mar	· 13-Mar	14-Mar	15-Mar	16-Mar	17-Mar	18-Mai
	lhr TSP X 3		Avifauna Survey (Pond 12)		Aquatic Fauna Survey (Water Quality Monitoring only) 1hr TSP X 3	
	Noise			24hr TSP		
	Water Quality Monitoring		Water Quality Monitoring	2 151	Water Quality Monitoring	
19-Mar		21-Mar	22-Mar	23-Mar	24-Mar	25-Mar
	Aquatic Fauna Survey (Water Quality Monitoring only)		Avifauna Survey (Pond 12)			
				1hr TSP X 3		
			24hr TSP	Noise	Avifauna flight line survey	
	Water Quality Monitoring		Water Quality Monitoring		Water Quality Monitoring	
26-Mar		28-Mar	29-Mar	30-Mar	31-Mar	
	Aquatic Fauna Survey		Avifauna Survey (Pond 12) 1hr TSP X 3			
		24hr TSP	Noise			
	Water Quality Monitoring		Water Quality Monitoring		Water Quality Monitoring	

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 Tentative Impact Monitoring Schedule (April 2023)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1-Ap
2-Apr	3-Apr	4-Apr	5-Apr	6-Apr	7-Apr	8-Apr
	Aquatic Fauna Survey (Water					
	Quality Monitoring only)	11 TOD 3/ 2		11 TGD X/ 2		
	Avifauna Survey (Pond 12)	1hr TSP X 3		1hr TSP X 3		
	24hr TSP	Noise		24hr TSP		
	Water Quality Monitoring			Water Quality Monitoring		W. O. D. M. G.
0.4	` '	11-Apr	12-Apr	water Quanty Monitoring 13-Apr	14-Apr	Water Quality Monitoring
9-Apr	10-Apr	11-Apr	Aquatic Fauna Survey (Water	13-Apr	14-Apr	15-Apr
			Quality Monitoring only)			
			1hr TSP X 3	Avifauna Survey (Pond 12)		
			Noise	Aviiaulia Survey (1 olid 12)		
		24hr TSP	TVOISE			
		Water Quality Monitoring		Water Quality Monitoring		Water Quality Monitoring
16-Apr	17-Apr	18-Apr	19-Apr	20-Apr	21-Apr	22-Apr
•	•	•	Aquatic Fauna Survey (Water	•	•	•
			Quality Monitoring only)			
		1hr TSP X 3	Avifauna Survey (Pond 12)			
		Noise			Avifauna flight line survey	
	24hr TSP		Herpetofauna Survey		24hr TSP	
	Water Quality Monitoring		Water Quality Monitoring		Water Quality Monitoring	
23-Apr	24-Apr	25-Apr	26-Apr	27-Apr	28-Apr	29-Apı
			Aquatic Fauna Survey			
			Avifauna Survey (Pond 12)			
	1hr TSP X 3				1hr TSP X 3	
	Noise			2.41 map		
	W			24hr TSP	***	
20. 4	Water Quality Monitoring		Water Quality Monitoring		Water Quality Monitoring	
30-Apr						
	1 t					

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)