Civil Engineering and Development Department

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

<u>Environmental Permit No.:</u> <u>EP-477/2013/A</u> - Development of Lok Ma Chau Loop

Monthly Environmental Monitoring and Audit Report for January 2023

(Version 1.0)

Dr. Priscilla Choy (Environmental Team Leader)	Certified By
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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/L098 Date : 10 February 2022

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 Monthly EM&A Report (January 2023)

Reference is made to the Monthly Environmental Monitoring and Audit (EM&A) Report of certified by the Environmental Team Leader in February 2023. We hereby verify the captioned submission in accordance with Clause 3.4 of the Environmental Permit No. EP-477/2013/A for the project of Development of Lok Ma Chau Loop.

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

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

mpt

Raymond Dai Independent Environmental Checker

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

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EXECUTIVE SUMMARY

Introduction

- This is the 49th Monthly Environmental Monitoring and Audit (EM&A) Report prepared for 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) works conducted in the period from 1st to 31st January 2023(hereinafter called "the reporting month").
- 2. During the reporting month, the following Works Contracts were undertaken for the Project:
 - Contract No. YL/2020/01 Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 1 Site Formation and Infrastructure Works inside Lok Ma Chau Loop and Western Connection Road Phase 1 (hereinafter called the "Contract 1")
 - Contract No.: YL/2020/02 Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling / San Tin Highway and Direct Road Link Phase 1 (hereinafter called the "Contract 2")
 - Contract No.: YL/2021/01 Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 3 Direct Road Link Phase 2

Summary Table for EM&A Activities in the Reporting Month

Environmental Monitoring and Audit Activities

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

Table I

			-	
Environmental Aspect		Monitoring Parameter	Date	
		1-hr Total Suspended	3 rd , 5 th , 11 th , 17 th , 20 th and 26 th January	
Air Quality		Particulates (TSP) Monitoring	2023	
Air Quality		24-hr TSP Monitoring 4 th , 10 th , 16 th , 20 th , 26 th and 31 st , 2023		
Constructio	n Noise	L _{eq30mins}	3 rd , 11 th , 17 th and 26 th January 2023	
Water Qual	 Temperature pH Turbidity Water depth Salinity Dissolved Oxygen (DO) Suspended Solids (SS) 		3 rd , 5 th , 7 th , 9 th , 11 th , 13 th , 16 th , 18 th , 20 th 26 th , 28 th and 30 th January 2023	
		Avifauna flight line survey	20 th January 2023	
Ecological	Lok Ma Chau (LMC) Loop		Temporary suspended as the connectivity between the reed marsh in the LMC Loop and the EA Zone has been fenced off due to other project's land occupier (i.e. emergency hospital)	

Environmental Aspect		Monitoring Parameter	Date	
		Avifauna flight line survey	20 th January 2023	
		Avifauna survey at Pond 12	Not required as no construction works for Western Connection Road along Ha Wan Tsuen Road in the period between November 2022 and February 2023	
Ecological	Western Connection Road (WCR)	Connection	Herpetofauna survey	according to EP Condition 2.7(h). Not required in the reporting month according to Section 11.4.2.2 of EM&A Manual.
		Aquatic Fauna survey	18 th January 2023	
		Water Quality Monitoring for Aquatic Fauna	LMC Meander 3 rd , 5 th , 7 th , 9 th , 11 th , 13 th , 16 th , 18 th , 20 th , 26 th , 28 th and 30 th January 2023 Stream and associated ponds south of Lung Hau Road 5 th , 13 th , 18 th and 26 th January 2023	
Site Environmental Audit		Environmental protection and pollution control measures	Contract 1 4 th , 11 th , 18 th and 26 th January 2023 Contract 2 4 th , 12 th , 18 th and 26 th January 2023 Contract 3 4 th , 9 th , 16 th , 26 th and 30 th January 2023	

Breaches of Action and Limit Levels

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

 Table II
 Summary Table for Environmental Exceedances in the Reporting Month

				Event & Action			
Environmental Monitoring	Parameter	Action Level	Limit Level	Investigation Result	No. of Exceedance related to the Construction Works of the	Corrective Action	
A in Onelity	1-hr TSP	0	0		0		
Air Quality	24-hr TSP	0	0		0		
Construction Noise	<u>Daytime</u> Leq(30min)	0	0		0		
	DO	0	0		0		
Water Quality	Turbidity	0	0		0		
	SS	0	0		0		

1-hour TSP Monitoring

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

24-hour TSP Monitoring

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

Construction Noise

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

Water Quality

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

Ecological Monitoring

<u>LMC Loop</u>

Avifauna (Flight Line Survey)

9. Avifauna monitoring was conducted as scheduled in the reporting month. Flight lines recorded were in general concentrated mainly on LMC Meander and adjacent areas including Ecological Area Zone (EA Zone) and along Shenzhen River. It demonstrates that the large waterbirds including migratory waterbirds such as Great Cormorant 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

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

Western Connection Road

Avifauna (Flight Line Survey)

12. Avifauna monitoring was conducted as scheduled in the reporting month. Flight lines recorded were in general concentrated mainly on LMC Meander and adjacent areas including Ecological Area Zone (EA Zone) and along Shenzhen River. It demonstrates that the large waterbirds including migratory waterbirds such as Great Cormorant 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)

13. 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.

Herpetofauna

14. 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.

Aquatic fauna

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

Land Contamination

- 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.
- 17. No work related to land contamination was conducted in the reporting month.

Site Environmental Audit

18. In the reporting month, weekly joint site inspections to evaluate the site environmental performance had been carried out by the representatives of the Consultants, Independent Environmental Checker (IEC), Environmental Team (ET) and the Contractors. The date(s) of the weekly site environmental audit conducted under the Project are summarized in **Table III**.

Table III	Summary	Table for	Site Enviro	nmental Aud	lit in the l	Reporting Mo	nth
	,						

Contract(s)	Date(s) of Site Environmental Audit
Contract No. YL/2020/01 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 1 Site Formation and Infrastructure Works inside Lok Ma Chau Loop and Western Connection Road Phase 1	4 th , 11 th , 18 th and 26 th January 2023
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	4 th , 12 th , 18 th and 26 th January 2023
Contract No.: YL/2021/01 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 3 Direct Road Link Phase 2	4 th , 9 th , 16 th , 26 th and 30 th January 2023

19. No non-compliance was recorded during the site inspections.

Complaint Log

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

Notification of Summons and Successful Prosecutions

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

Reporting Change

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

Future Key Issues

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

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

- (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 Works for Box Culverts
- (e) Piling Construction for Vehicular Bridge over the old Shenzhen River Meander
- (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
- (b) carriageway to divert traffic.
- (c) UU detection / trial pit to locate 132kv line and protection measures for subway modification works.
- (d) Demolition of Subway Cycle Track top portion and ramp walls Bay 12, 13 & 14
- (e) Excavation and lateral support for RW9
- (f) Construction of retaining wall RW9 base slab and wall stem Bay 9-16
- (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

Section 2B

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

Section 2C

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

Section 3

- (x) Ground investigation / Pre-drilling and Trial Pits for Bridge DRL
- (y) Bored pile and socketed H-Pile for Bridge DRL
- (z) ELS to Cofferdam, Pile Trimming/Treatment for DRL-P12 & P13
- (aa) Commence construction of Pile Cap and Pier at DRL-P12 & P13

Section 5

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

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

- (a) LMC Station L1 Installation of Support for Leaky Cables
- (b) EPTI GI Works and Bored Pile Construction
- (c) UU Diversion and GI Works at Double-deck Footbridge

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 49th EM&A Report which summarises the impact monitoring results and audit findings for the EM&A programme in the period from 1st to 31st January 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 month.

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

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

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

Section 6: **Ecological Monitoring -** summarises the monitoring parameters, monitoring programmes, monitoring methodologies, monitoring frequencies, monitoring locations and monitoring results.

Section 7 Land Contamination - summarises the remediation works progress for contamination soil and relevant submission.

Section 8 Waste Management – summarises the implementation status of waste management.

weekly site inspections undertaken within the reporting month.

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

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

Section 12: Future Key Issues - summarises the impact forecast and monitoring schedule for the next three months.

Section 13: Conclusions and Recommendations

2 PROJECT INFORMATION

Background

- 2.1 The development at Lok Man Chau (LMC) Loop is one of the ten major infrastructure projects for economic growth of the Hong Kong Special Administrative Region (HKSAR). The HKSAR Government would work with the Shenzhen authorities to tap the land resources of the LMC Loop to meet future development needs and consolidate the strategic position of both cities in the Pan-Pearl River Delta region. The Project is to develop LMC Loop with higher education as the leading land use, complemented by high-tech research and development facilities and cultural and creative industries.
- 2.2 The planning and engineering study for the Loop development is a designated project (DP) classified under Item 1 Schedule 3 of the Environmental Impact Assessment (EIA) Ordinance (Cap. 499). In October 2013, the EIA Report (AEIAR-176/2013) of the Project was approved by the Director of Environmental Protection pursuant to the EIA Ordinance in accordance with the EIA Study Brief (No. ESB-201/2008 and ESB-238/2011) and the Technical Memorandum on Environmental Impact Assessment Process (EIAO-TM). The Environmental Permit (EP) (EP no.: EP-477/2013) was also granted in November 2013.
- 2.3 Pursuant to Section 13 of the EIAO, the Director of Environmental Protection amends the Environmental Permit (No. EP-477/2013) based on the Application No. VEP- 595/2021 and the environmental Permit (Permit No. 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. All construction works of Contract No. YL/2017/03 have been completed and the works were successfully handed over to AFCD and DSD on 30th December 2021.
- 2.6 For MWP1, there will be a total of 5 Works Contracts and the contract packaging is shown below.
 - Contract 1 Development of Lok Ma Chau Loop: Main Works Package 1 Contract 1 – Site Formation and Infrastructure Works inside Lok Ma Chau Loop and Western Connection Road Phase 1
 - 2) Contract 2 Development of Lok Ma Chau Loop: Main Works Package 1 Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling / San Tin Highway and Direct Road Link Phase 1
 - 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 Contract No.: YL/2021/01 Development of Lok Ma Chau Loop: Main Works Package 1 Contract 3 Direct Road Link Phase 2 (hereinafter called the "Contract 3") was awarded to Paul Y.-Chun Wo-CRCC JV (hereinafter called the "Contractor 4") in February 2022.
- 2.10 During the reporting month, the following Works Contracts were undertaken for the Project:
 - Contract No. YL/2020/01 Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 1 Site Formation and Infrastructure Works inside Lok Ma Chau Loop and Western Connection Road Phase 1 (Contract 1)
 - Contract No.: YL/2020/02 Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling / San Tin Highway and Direct Road Link Phase 1 (Contract 2)
 - Contract No.: YL/2021/01 Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 3 Direct Road Link Phase 2 (Contract 3)
- 2.11 The layout of the construction works under the Project and the scope of works under the Project are summarized in **Table 2.1**.

Table 2.1Site Layout and Scope of Works under the Project

Contract(s)	Scope of Works	Site Layout Plan	
Contract No. YL/2017/03 – Development of Lok Ma Chau Loop: Land Decontamination and Advance Engineering Works (Completed)	 a) Land decontamination treatment within the Loop; b) Establishment of an Ecological Area (EA) within the Loop; c) Construction of a temporary access to the Loop; d) Minor improvement works to Ha Wan Tsuen East Road and other ancillary works; e) Construction of temporary noise barriers and miscellaneous road works along Lok Ma Chau Road; f) Ground treatment works to the first batch of land parcels within the Loop for development of buildings and associated facilities for Phase 1 of the Hong Kong – Shenzhen Innovation and Technology Park and development of the western electricity substation; and g) Implementation of environmental mitigation measures for the works mentioned in the items (a) to (f) above. 	Figure 1a	

Contract(s)	Scope of Works	Site Layout Plan
ContractNo.YL/2020/01-DevelopmentofLokMaMaLoop:Main	 a) Ground treatment and site formation works; b) Construction of carriageway, footpaths, cycle tracks and a public transport interchange within the Loop; 	
Works Package 1 – Contract 1 Site Formation and Infrastructure Works inside Lok Ma Chau	 c) Construction of Western Connection Road Phase 1 through widening of existing Ha Wan Tsuen East Road, which includes construction of footpath, cycle track, slopes, retaining walls and a vehicular bridge over the old Shenzhen River 	
Loop and Western Connection Road Phase 1	 d) Provision of other infrastructures, including a tertiary sewage treatment works and sewerage system, water supply system, drainage system, and other associated works; and 	
	e) Environmental mitigation measures including about 18 ha offsite wetland compensation and about 1.3 ha offsite woodland compensation.	
Contract No.: YL/2020/02 – Development of Lok	 a) Construction of Western Connection Road Phase 2 through widening of a section of existing Lok Ma Chau Road; 	0
Ma Chau Loop: Main Works Package 1 – Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling /	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;	
San Tin Highway and Direct Road Link Phase 1	 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 e) Provision of noise barriers. 	
Contract No.: YL/2021/01 – Development of Lok Ma Chau Loop: Main	 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; 	
Works Package 1 – Contract 3 Direct Road Link Phase 2	 b) Construction of an approximately 90 metres long double-deck footbridge and a lift tower of approximately 21 metres in height with three lifts and three escalators connecting the elevated public transport interchange mentioned above to the MTR Lok Ma Chau Station; 	
	 c) Associated modification works within the MTR Lok Ma Chau Station; and d) Associated roadworks, landscaping, electrical and mechanical works and ancillary works. 	

Project Organisation

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

Organization	Project Role	Contact Person	Tel No.	Fax No.		
CEDD	Project Proponent	Mr. Davy KS CHAN	2417 6370	2412 0358		
WELLAB	ET	Dr Priscilla Choy – ET Leader	2898 7388	2898 7076		
Lam Environmental Services Limited (LAM)	IEC	Mr. Raymond Dai	2839 5666	2882 3331		
Contract No. YI	./2020/01					
AECOM	Consultants	Mr. Eric Wong	9861 8664	TBA		
		Site Agent – Mr. Jeremy Luk	9013 7913	2774 0197		
CRCC-Kwan	Contractor	RCC-Kwan Senior Engineer – Mr. Max Mak		9263 1116	2774 0197	
Lee-Paul Y. JV		Senior Engineer – Mr. Stephen Leung	9770 6390	2774 0197		
		Environmental Officer – Ms. Lila Lui	5261 0378	2774 0197		
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 Contracto Corporation		Construction Team Leader –Mr. Roger Poon	9503 2488	3996 9202		
		Environmental Officer – Mr. Calvin So	9724 6254	3996 9202		
Contract No. YL/2021/01						
AECOM	Consultants	Mr. Eric Wong	9861 8664	TBA		
		Site Agent – Mr. Desmond Tang	5188 0815	3015 7861		
Paul YChun Wo-CRCC JV	Contractor	Section Agent – Mr. Charles Choi	6350 0142	3015 7861		
		Environmental Officer – Mr. Tino Law	6856 4150	3015 7861		

Table 2.2Key Contacts of the Project

Construction Programme

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

Summary of Construction Works Undertaken During Reporting Month

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

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

- (a) Wetland Compensation Establishment Works and Ecological Monitoring.
- (b) 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.

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

- (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.

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

- (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

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

 Table 2.3
 Status of Environmental Licences, Notifications and Permits

	Permit / License	Vali	d Period		
Contract No.	No.	From To		Status	
Environmental Permit (El	P)				
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 Permi	t (CNP)				
Contract No. YL/2020/01	GW-RN0954-22	11/10/2022	10/01/2023	Expired	
	GW-RN0022-23	14/01/2023	13/04/2023	Valid	
Contract No. YL/2020/02	GW-RN1065-22	09/11/2022	08/02/2023	Valid	
	GW-RN1066-22	09/11/2022	08/02/2023	Valid	
Contract No. YL/2021/01	GW-RN1230-22	28/12/2022	27/03/2023	Valid	
Notification pursuant to A	ir 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	17/05/2022	Till the Contract ends	Receipt acknowledged by EPD	
Billing Account for Dispos	al 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	

	Permit / License	Valid Period		
Contract No.	No.	From	То	Status
Contract No. YL/2021/01	WPN 5213-542- P3483-01	21/04/2022	Till the Contract ends	Valid
Effluent Discharge Licens	e under Water Pollu	tion Control O	ordinance	
Contract No. YL/2020/01	WT00039466-2021	04/01/2023	31/12/2026	Valid
	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

Status of Compliance with Environmental Permits Conditions

2.16 The status of compliance with Environmental Permit (EP) No. EP-477/2013/A and required submission related to this Project under the EP is summarized in **Table 2.4**:

Table 2.4Summary Table for Status of Compliance / Required Submission underEP No. EP-477/2013/A

EP Conditions	Submission(s)	Requirement	Submission Date	Approval Status
2.3	Management Organizations	no later than one month before the commencement of construction of the Project	<u>YL/2020/01:</u> 7 July 2021 <u>YL/2020/02:</u> 17 Nov 2021 <u>YL/2021/01:</u> 30 Mar 2022	*
2.4	Pedestrian Walkway Reserve in the Direct Link to MTR LMC Station	at least one month before the commencement of construction of the Direct Link, deposited with the Director	17 Nov 2021	*
2.5 & 2.6	Submission of Works Schedule and Location Plans	Works Schedule: at least one month before the commencement of the works of the Project Location Plan: at least two weeks before the commencement of the works of the Project	<u>YL/2020/01:</u> 7 July 2021 <u>YL/2020/02:</u> 17 Nov 2021 <u>YL/2021/01:</u> 30 Mar 2022	*
2.7	Ecological Mitigation / Habitat Creation and Management Plan	at least one month before the commencement of corresponding parts of the works of the Project, deposited with the Director	7 Dec 2021 (Issue 4)	*
2.8	Landscape Plan	at least one month before the commencement of corresponding parts of the works of the Project, deposited with the Director	To be submitted at least one month before the commencement of corresponding parts of the works of the Project (tentative submission date will be supplemented once available)	*
2.11	Emergency Contingency Plan	at least one month before the commencement of the concerned works of the	26 Oct 2021	*

EP Conditions	Submission(s)	Requirement	Submission Date	Approval Status
		Project, deposited with the Director		
2.15	Re-appraisal report	at least one month before the commencement of corresponding parts of the works of the Project, deposited with the Director	18 Jun 2021	*
2.16	Remediation Report	no later than one month after the completion of the remediation works for approval	N/A (no remediation is required according to re- appraisal report)	N/A
2.17	 (a) Updated Contamination Assessment Plan (CAP) (b) Contamination Assessment Report (CAR) (c) Remedial Action Plan (RAP) (d) Remediation Report (RR) 	 (a) submitted to the Director for approval (b) no later than two months after the completion of the Supplementary SI (c) submitted to the Director for approval (d) no later than one month after the completion of the remediation works for approval 	N/A (no remediation is required according to re- appraisal report)	N/A
3.3	Baseline Monitoring Report	at least one month before commencement of construction of the Project.	3 Dec 2018	*
3.4	Monthly EM&A Report	within 10 working days after the end of each reporting month	Regular submitted within 10 working days after the end of each reporting month	*

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

3 AIR QUALITY MONITORING

Monitoring Requirements

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

Monitoring Location

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

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

 Table 3.1
 Location of Air Quality Monitoring Stations

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 which was verified by IEC and agreed by EPD.
- 3. Alternative location (DMS-2B) was proposed due to DMS-2A is situated within the site area for upcoming road widening works which was verified by IEC and agreed by EPD.
- 4. Proposed replacement monitoring location for Air Sensitive Receiver (ASR) MTL-20 Village house in Ma Tso Lung (DMS-4A) as no work would be conducted near ASR MTL-20 due to exclusion of the original Eastern Connection Road (ECR) which was verified by IEC and agreed by EPD.

Monitoring Equipment

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

Table 3.2Air Quality Monitoring Equipment

toring ion(s)	Equipment	Model and Make	Quantity
S-2A -2B ⁽¹⁾	HVS Sampler for 24-hour TSP monitoring	TISCH Model: TE-5170	3
 1S-3 S-4A	1-hour TSP Dust Meter	Met One Instruments: AEROCET-831	5

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

Remark:

(1) Air quality monitoring was conducted at DMS-2B starting from 20 January 2023.

(2) The power supply from the Village House at DMS-1a is not secured for operation of HVS. Therefore, dust meter for 24-hr TSP monitoring at DMS-1a was proposed to ensure the monitoring data collection. IEC had no comment on the proposal of using dust meter for 24-hr TSP monitoring at DMS-1a on 21 June 2022.

Monitoring Parameters and Frequencies

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

 Table 3.3
 Impact Air Quality Monitoring Parameters and Frequencies

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

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

24-hour TSP Air Quality Monitoring

Instrumentation

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

HVS Installation

- 3.7 The following guidelines were adopted during the installation of HVS:
 - A horizontal platform with appropriate support was provided to secure the samplers against gusty wind;
 - No two samplers were placed less than 2 metres apart;
 - The distance between the sampler and an obstacle, such as buildings, was at least twice the height that the obstacle protruded above the sampler;
 - A minimum of 2 metres of separation from walls, parapets and penthouses was required for rooftop samples;

horizontally was required;

- No furnaces or incineration flues were nearby;
- Airflow around the sampler was unrestricted;
- The samplers were more than 20 metres from the drip line;
- Any wire fence and gate, to protect the sampler, should not cause any obstruction during monitoring;
- Permission and access to the monitoring stations had been obtained to set up the samplers; and
- A secured supply of electricity was provided to operate the samplers.

Filters Preparation

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

Operating/Analytical Procedures

- 3.11 Operating/analytical procedures for the air quality monitoring were highlighted as follows:
 - Prior to the commencement of the dust sampling, the flow rate of the HVS was properly set (between 1.1 m³/min. and 1.4 m³/min.) in accordance with the manufacturer's instruction to within the range recommended in USEPA Standard Title 40, CFR Part 50;
 - The power supply was checked to ensure the sampler worked properly;
 - On sampling, the sampler was operated for 5 minutes to establish thermal equilibrium before placing any filter media at the designated air quality monitoring station;
 - The filter holding frame was then removed by loosening the four nuts and carefully a weighted and conditioned filter was centered with the stamped number upwards, on a supporting screen;
 - The filter was aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter. Then the filter holding frame was tightened to the filter holder with swing bolts. The applied pressure should be sufficient to avoid air leakage at the edges;
 - The shelter lid was closed and secured with the aluminum strip;
 - The timer was then programmed. Information was recorded on the record sheet, which included the starting time, the weather condition and the filter number (the initial weight of the filter paper could be found out by using the filter number);
 - After sampling, the filter was removed and kept in a clean and tightly sealed plastic bag. The filter paper was then returned to the Wellab Limited for reconditioning in the humidity-controlled chamber followed by accurate weighting by an electronic balance with a readout down to 0.1mg. The elapsed time was also recorded; and
 - Before weighing, all filters were equilibrated in a conditioning environment for 24

hours. The conditioning environment temperature should be between 25°C and 30°C and not vary by more than \pm 3°C; the RH should be < 50% and not vary by more than \pm 5%. A convenient working RH is 40%. Weighing results were returned for further analysis of TSP concentrations collected by each filter.

Maintenance/Calibration

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

<u>1-hour and 24-hour TSP Air Quality Monitoring</u>

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

(AEROCET-831)

- The 1-hour dust meter is placed at least 1.3 meters above ground.
- Press and hold the Power key momentarily to power on the unit and make sure that the battery level was not flash or in low level.
- Allow the instrument to stand for about 3 second to display the Sample Screen minutes.
- Press the START / STOP key to run the internal vacuum pump for 1 minute and ready to use.
- Use the select dial to select the PM range and press the START / STOP key to start a measurement.
- Finally, push the START/STOP key to stop the measuring after 1 hour sampling.
- For 24-hour TSP monitoring, the hold time was set for collection of 24-hour TSP samples. A separate automotive battery was used to support the dust meter for 24-hour TSP monitoring.
- Information such as sampling date, time, value and site condition were recorded during the monitoring period.
- All data were recorded in the data logger for further data processing.

Maintenance/Calibration

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

Results and Observations

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

1-hour and 24-hour TSP monitoring results are shown in **Appendix E** and **Appendix F** respectively.

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

Monitoring Station	Concentration (µg/m³)		Action – Level, μg/m ³	Limit Level, µg/m³
Station	Average	Range	Level, µg/m	μg/m
DMS-1a	78.6	31.5 - 163.6	353	
DMS - 2A	94.1	10.8 - 186.1	370	500
DMS - 2B	111.0	37.5 - 173.9	370	300
DMS-3	83.8	24.0 - 151.3	351	
DMS-4A	80.1	30.1 - 139.3	350	

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

Monitoring Station	Concentration (µg/m ³)		Action Level, μg/m ³	Limit Level, µg/m ³
Station	Average	Range	Level, µg/m	μg/m
DMS – 1a	49.5	26.6 - 129.5	184	
DMS – 2A	67.9	32.6 - 99.8	166	260
DMS-2B	68.0	64.7 - 71.1	166	260
DMS-3	40.9	22.8 - 63.6	166	
DMS-4A	37.8	21.8 - 56.9	152	

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

Table 3.6Observation at Air Quality Monitoring Stations

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

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

Event and Action Plan

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

4 NOISE MONITORING

Monitoring Requirements

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

Monitoring Location

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

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

Table 4.1Location of Noise Monitoring Stations

Note:

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

Monitoring Equipment

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

Table 4.2Noise Monitoring Equipment

Equipment	Model	Quantity
Integrating Sound Level Meter	BSWA 308	4
Calibrator	SVANTEK SV 30A	2

Monitoring Parameters, Frequency and Duration

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

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

Table 4.3	Noise Monitoring Parameters, Duration and Frequency

Remarks:

A-weighted equivalent continuous sound pressure level (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.

Monitoring Methodology and QA/QC Procedures

- The microphone head of the sound level meter was positioned at 1m from the exterior of the noise sensitive facade and lowered sufficiently so that the building's external wall acted as a reflecting surface;
- The battery condition was checked to ensure the correct functioning of the meter;
- Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:

_	frequency weighting time weighting	: A : Fast
	time measurement	: L _{eq} (30 min.) dB(A) (as six consecutive L _{eq, 5min} readings) during non-restricted hours (i.e. 0700-1900 hrs on normal weekdays)

- Prior to and after each noise measurement, the meter was calibrated using a Calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1.0 dB, the measurement would be considered invalid and repeat of noise measurement would be required after re-calibration or repair of the equipment;
- During the monitoring period, the L_{eq} , L_{90} and L_{10} were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet;
- Noise measurement was paused temporarily during periods of high intrusive noise (e.g. dog barking, helicopter noise) if possible and observation record during measurement period should be provided; and
- Noise monitoring was cancelled in the presence of fog, rain, and wind with a steady speed exceeding 5 m/s, or wind with gusts exceeding 10 m/s. The wind speed should be checked with a portable wind speed meter capable of measuring the wind speed in m/s.

Maintenance and Calibration

- 4.5 The microphone head of the sound level meter and calibrator were cleaned with a soft cloth at quarterly intervals.
- 4.6 The sound level meter and calibrator were checked and calibrated at yearly intervals.

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

Results and Observations

4.8 The noise monitoring results are summarised in **Table 4.4**. Detailed monitoring results and graphical presentations of noise monitoring are shown in **Appendix G**.

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

Monitoring Station	Noise Level,	Leq (30min) dB(A)	Action Level	Limit Level
Women ing Station	Average	Range	Action Level	Limit Level
NMS-1	62.0	47.5 - 70.1	When one	
NMS-2	70.4	70.7 - 72.0	documented	$75 \text{ ID}(\Lambda)$
NMS-3	52.0	48.3 - 63.9	complaint is	75 dB(A)
NMS-4A	50.9	48.8 - 58.9	received.	

Remark: +3dB(A) façade correction included

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

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

Table 4.5Observation at Noise Monitoring Stations

Monitoring Station	Major Noise Source
NMS-1	Excavation works, loading and unloading works, site vehicle / equipment movement (mainly due to another project)
NMS-2	Road traffic, site vehicle / equipment movement
NMS-3	Road traffic
NMS-4A	Road traffic

Event and Action Plan

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

5 WATER QUALITY MONITORING

Monitoring Requirements

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

Monitoring Locations

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

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

Table 5.1Location for Water Quality Monitoring Stations

Note:

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

Monitoring Equipment

Instrumentation

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

DO and Temperature Measuring Equipment

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

Turbidity

5.12 Turbidity was measured in-situ by the nephelometric method. The instrument was portable and weatherproof using a DC power source complete with cable, sensor and comprehensive operation manuals. The equipment was capable of measuring turbidity between 0-1000 NTU. The probe cable was not less than 25m in length. The meter was calibrated in order to establish the relationship between NTU units and the levels of SS. The turbidity measurement was carried out on split water sample collected from the same depths of SS samples.

Sampler

5.13 A water sampler, consisting of a transparent Polyvinyl Chloride (PVC) of a capacity of not less than two litres which could be effectively sealed with cups at both ends was used. The water sampler had a positive latching system to keep it open and prevent premature closure until released by a messenger when the sampler was at the selected water depth. In addition, a self-made sampling bucket was also used for sampling at the monitoring station with shallow water.

Water Depth Detector

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

<u>pH</u>

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

<u>Salinity</u>

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

Sample Container and Storage

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

Table 5.2Types of Sampling Bottle and Preservation Method

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

Calibration of In-Situ Instruments

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

Table 5.3	Water Quality Monitoring Equipment
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Equipment	Model and Make	Quantity
Sonar Water Depth Detector	Garmin Fishfinder 140 / Garmin Striker plus 4	1
Water Sampler	A 2-litre transparent PVC cylinder with latex cups at both ends or self-made sampling bucket	1
Multi-parameter Water Quality System	YSI EXO 1	2

Monitoring Parameters and Frequency

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

Monitoring Station	Parameter (unit)	Depth	Frequency	
CS1, IS1, IS2, IS4, CS5, IS6	 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 Project	

Table 5.4Water Quality Monitoring Parameters, Depths and Frequency

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

Monitoring Methodology

Instrumentation

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

Operating/Analytical Procedures

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

Laboratory Analytical Methods

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

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

Table 5.5Laboratory Analysis Method for Water Samples

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

QA/QC Requirements

Decontamination Procedures

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

Sampling Management and Supervision

- 5.29 All sampling bottles were labelled with the sample identity laboratory number and sampling date. Water samples were dispatched to the testing laboratory for analysis as soon as possible after the sampling. All samples were stored in a cool box and kept at less than 4 C but without frozen. All water samples were handled under chain of custody protocols and relinquished to the laboratory representatives at locations specified by the laboratory.
- 5.30 The laboratory determination work was started as soon as possible after collection of the water samples.

QC Measures for Sample Testing

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

Maintenance and Calibration

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

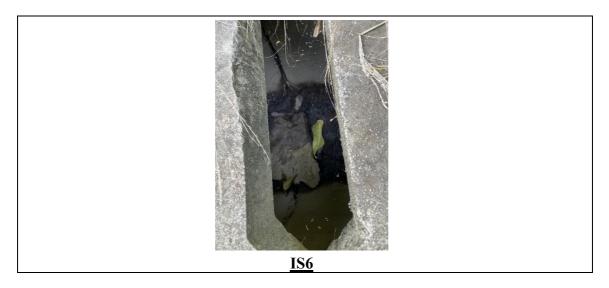
Results and Observations

- 5.33 The monitoring results and graphical presentation of water quality at the monitoring stations are shown in **Appendix H.**
- 5.34 The summary of exceedance recorded in the reporting month is shown in **Appendix K** and summarised in the **Table 5.6**. No Action/Limit Level exceedance was recorded in the reporting month.

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

Table 5.6Summary of Water Quality Exceedances

5.35 No water quality monitoring was conducted at IS6 in the reporting month since the channel was dry. Water quality monitoring station, IS6 will be further reviewed and a proposal for any alternative monitoring location including justification will be submitted for approval from IEC and EPD.



5.36 Water quality monitoring was conducted as scheduled in the reporting month.

Event and Action Plan

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

6 ECOLOGICAL MONITORING

LMC Loop

Monitoring Requirements (Avifauna Monitoring – Flight Line Survey)

Monitoring Requirements

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

Monitoring Frequency

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

Monitoring Location

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

Monitoring Methodology

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

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

Monitoring Day

6.13 The flight line survey was carried out on 20th January 2023. Sunrise time at 7:05 am and the survey started at 6:35 am and lasted for 2 hours. The weather was fine throughout the survey.

Monitoring Result

6.14 Total number of birds observed was 1,299. Five species were included in the record of the flight line survey, including Little Egret, Great Egret, Black-faced Spoonbill, Grey Heron and Great Cormorant. **Table 6.1** shows the summary of the number of birds observed in this Survey.

Species	Number of Birds	Height class 1	Height Class 2	Height Class 3
Little Egret 小白鷺	369	64	36	269
Great Egret 大白鷺	110	20	19	71
Black-faced Spoonbill 黑臉琵鷺	22	0	0	22
Grey Heron 蒼鷺	28	0	4	24
Great Cormorant 普通鸕鷀	770	0	23	747
Total	1,299	84	82	1,133

Table 6.1Number of Birds Observed

6.15 The total number of bird-flights (number of birds of each species passing through each 100m square) observed across all 100m grid squares was 14,817. **Table 6.2** shows the number of bird-flights for the five species respectively.

Species	Total number of Bird-Flights
Little Egret 小白鷺	3,893
Great Egret 大白鷺	1,519
Black-faced Spoonbill 黑臉琵鷺	242
Grey Heron 蒼鷺	308
Great Cormorant 普通鸕鷀	8,855
Total	14,817

Table 6.2Number of Bird-flights

- 6.16 The distribution of flight line usage in this survey is shown in **Figure 6**.
- 6.17 Flight lines recorded were in general concentrated mainly on LMC Meander and adjacent areas including Ecological Area Zone (EA Zone) and along Shenzhen River. It demonstrates that the large waterbirds including migratory waterbirds such as Great Cormorant prefer using the flight line corridor above the LMC Meander as well as the unaffected Shenzhen River instead of the centre of LMC Loop.

Monitoring Requirements (Mammals)

Monitoring Requirements

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

Monitoring Location

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

Monitoring Methodology

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

Monitoring Results

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

Western Connection Road

Monitoring Requirements (Avifauna Monitoring – Flight Line Survey)

6.24 Refer to Sections 6.1 to 6.17.

Monitoring Requirements (Avifauna Monitoring – Pond 12)

Monitoring Requirements

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

Monitoring Frequency

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

Monitoring Location

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

Monitoring Methodology

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

Monitoring Result

6.31 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.

Herpetofauna

Monitoring Requirements

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

Monitoring Frequency

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

Monitoring Location

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

Monitoring Methodology

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

Monitoring Result

6.37 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.

Aquatic Fauna

Monitoring Requirements

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

Monitoring Frequency

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

Monitoring Location

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

Monitoring Methodology

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

Monitoring Result

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

Date of Aquatic Fauna Survey:	18 th January 2023
	LMC Meander
Date of Water Quality Monitoring for	3 rd , 5 th , 7 th , 9 th , 11 th , 13 th , 16 th , 18 th , 20 th , 26 th , 28 th and 30 th January 2023
Aquatic Fauna	Stream and associated ponds south of Lung Hau Road
	5 th , 13 th , 18 th and 26 th January 2023

- 6.49 No potential impact due to the runoff from the construction activities of the Western Connection Road was identified during the survey of Aquatic Fauna in the reporting month. In addition, no deterioration in the water quality due to the construction activities of the Western Connection Road was observed.
- 6.50 The detailed aquatic fauna (Rose Bitterling) results and *In situ* water quality monitoring results at the stream and associated ponds south of Lung Hau Road are shown in **Appendix R1** and **R2** respectively.
- 6.13 *In situ* water quality monitoring results in LMC Meander at 3 monitoring stations, including CS1, IS1 and IS2 are presented in Section 5 and **Appendix H**. No Action / Limit Level exceedance was recorded.

7 LAND CONTAMINATION

General

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

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

 Table 7.1
 Detailed Contamination Information for Designated Remediation Areas

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

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

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

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

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

Remediation Work Progress in the Reporting Month

- 7.4 As advised by the Contractor, Decontamination for all Hotspots (LD01 LD05) was completed and backfilling of treated soil was completed on 31 May 2021. After completion of remediation works at each hot spots, Interim Remediation Reports (IRR) would be prepared by the Land Contamination Specialist and submitted to EPD in accordance with Condition 2.16 of the EP-477/2013/A. The status of IRRs are summarised below.
 - (a) IRR for hot spot LD-001 endorsed by EPD on 6th January 2020
 - (b) IRR for hot spot LD-003 endorsed by EPD on 18th March 2020
 - (c) IRR for hot spot LD-002 commented by EPD on 3rd September 2020 and resubmitted by Contractor on 16th September 2020
 - (d) IRR for hot spot LD-005 endorsed by EPD on 23rd October 2020
 - (e) Final Remediation Report including the result of hotpsot LD-004 was submitted to EPD on 28th June 2021. The final Remediation Report was approved by EPD with minor comments in August 2021.
- 7.5 No work related to land contamination was conducted in the reporting month.

8 WASTE MANAGEMENT

General

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

Solid and Liquid Waste Management Status

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

Contract(s)	Waste Type		Quantity this month	Disposal / Dumping Grounds
		Reused in this Contract (Inert) (in '000 m ³)	0	N/A
Contract No. YL/2020/01		Reused in other Contracts/ Projects (Inert) (in '000 m ³)	0	N/A
		Disposal as Public Fill (Inert) (in '000 m ³)	0.491	N/A
		Reused in this Contract (Inert) (in '000 m ³)	0	N/A
Contract No. YL/2020/02	Inert	Reused in other Contracts/ Projects (Inert) (in '000 m ³)	0	N/A
		Disposal as Public Fill (Inert) (in '000 m ³)	0.432	N/A
		Reused in this Contract (Inert) (in '000 m ³)	0	N/A
Contract No. YL/2021/01		Reused in other Contracts/ Projects (Inert) (in '000 m ³)	0	N/A
		Disposal as Public Fill (Inert) (in '000 m ³)	0.597	N/A
		Recycled Metal ('000kg)	0	N/A
Contract No.		Recycled Paper / Cardboard Packing ('000kg)	0.067	N/A
YL/2020/01		Recycled Plastic ('000kg)	0	N/A
		Chemical Wastes ('000kg)	0	N/A
		General Refuses ('000m ³)	0.018	NENT Landfill
		Recycled Metal ('000kg)	0	N/A
Contract No.		Recycled Paper / Cardboard Packing ('000kg)	0	N/A
YL/2020/02		Recycled Plastic ('000kg)	0	N/A
		Chemical Wastes ('000kg)	0	N/A
		General Refuses ('000m ³)	0.428	NENT Landfill
Contract No. YL/2021/01		Recycled Metal ('000kg)	0	N/A
		Recycled Paper / Cardboard Packing ('000kg)	0	N/A
		Recycled Plastic ('000kg)	0	N/A
		Chemical Wastes ('000kg)	0	N/A
		General Refuses ('000m ³)	0	N/A

 Table 8.1
 Quantities of Waste Generated in the Reporting Month

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

9 **ENVIRONMENTAL SITE INSPECTION**

Site Audits

- 9.1 Site audits were carried out by ET on weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures on the Project site. The summaries of site audits are attached in Appendix L.
- Site audits were conducted by ET with the representative of the Consultants, the Contractor and IEC on 4^{th} , 9^{th} , 11^{th} , 12^{th} , 16^{th} , 18^{th} , 26^{th} and 30^{th} January 2023 in the reporting month. Summary of site audits under the Project are presented in **Table 9.1**. 9.2 The details of observations during site audit are shown in Table 9.2.

Table 9.1 **Summary of Site Audits**

Contract(s)	Date(s) of Site Environmental Audit
Contract No. YL/2020/01 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 1 Site Formation	4 th , 11 th , 18 th and 26 th January 2023
and Infrastructure Works inside Lok Ma Chau Loop and	
Western Connection Road Phase 1	
Contract No.: YL/2020/02 – Development of Lok Ma Chau	4 th , 12 th , 18 th and 26 th January 2023
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	4 th , 9 th , 16 th , 26 th and 30 th January
Loop: Main Works Package 1 – Contract 3 Direct Road Link	2023
Phase 2	

9.3 During site inspections in the reporting month, no non-conformance was identified. The observations and recommendations made during the audit sessions are summarised in **Table 9.2**.

Parameters	Date	Observations and Recommendations	Follow-up
Contract No. YL	/2020/01	•	
Air Quality		No major environmental deficiency was identified during the reporting month.	
Noise		No major environmental deficiency was identified during the reporting month.	
Water Quality		No major environmental deficiency was identified during the reporting month.	
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.	
<i>Permits/Licences</i> WMA21009\2301\F		No major environmental deficiency was identified during the reporting month.	 Wellab

Table 9.2 **Observations and Recommendations of Site Audit**

WMA21009\2301\Rpt_2301_v.1.0

Parameters	Date	Observations and	Follow-up
Contract No. VI	/2020/02	Recommendations	
Contract No. YL	/2020/02	No major environmental deficiency was	
Air Quality		identified during the reporting month.	
		No major environmental deficiency was	
Noise		identified during the reporting month.	
		Provide sand bag bund or similar	Follow-up action was required as
	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	
		inspected and maintained to ensure the	
Water Quality	12/01/2023	exposed slopes are covered completely.	cover the exposed slopes
2 .			completely by the Contractor as
			observed during follow-up audit session on 18/01/2023.
		Provide sand bag bund or similar	
		measures to enclose the storage area for	
	10/01/2025	excavated materials at CS1 and RW9.	session on 26/01/2023.
		Clear the accumulated sediment at the	
		drip tray for the air compressor at	
	12/01/2023	TAR1.	was cleared by the Contractor as
			observed during follow-up audit
Waste /			session on 18/01/2023.
Chemical		Clear the construction wastes / materials	
Management		at open drainage channel at RW9.	materials at open drainage
	12/01/2023		channel were cleared by the Contractor as observed during
			follow-up audit session on
			18/01/2023.
Land		No major environmental deficiency was	
Contamination		identified during the reporting month.	
Landscape and		No major environmental deficiency was	
Visual		identified during the reporting month.	
Ecology		No major environmental deficiency was	
		identified during the reporting month. No major environmental deficiency was	
Fisheries		identified during the reporting month.	
		No major environmental deficiency was	
Permits/Licences		identified during the reporting month.	
Contract No. YL	/2021/01		
Air Quality		No major environmental deficiency was	
2111 Quality		identified during the reporting month.	
Noise		No major environmental deficiency was	
		identified during the reporting month.	
Water Quality		No major environmental deficiency was identified during the reporting month.	
Waste /		No major environmental deficiency was	
Chemical		identified during the reporting month.	
Management			
Land		No major environmental deficiency was	
Contamination		identified during the reporting month.	
Landscape and		No major environmental deficiency was	
Visual		identified during the reporting month.	
Ecology		No major environmental deficiency was	
Leongy		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.	

10 IMPEMENTATION STATUS OF ENVIRONMENTAL MITIGATION MEASURES

- 10.1 According to the EIA Report, EP and the EM&A Manual, the mitigation measures detailed in the documents are recommended to be implemented during the construction phase. An updated summary of the Environmental Mitigation Implementation Schedule is provided in **Appendix M**.
- 10.2 The Compliance status of environmental mitigation measures related to the Project according to EP-477/2013/A are summarised in **Table 10.1**.

Table 10.1 Compliance Status of Related Environmental Miligation Measures	Table 10.1	Compliance Status of Related Environmental Mitigation Measures
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EP Requirements	Compliance Status	Remarks
Submission and Measures to Mitigate Ecological Impa EP Condition 2.7 To reduce the ecological impact durin series of ecological mitigation measures shall be impler recommendations, including those described in Section 1 EIA Report. The key ecological mitigation measures shall (a) conducting pre-construction search for any otter holts/dens and herpetofaunal species of conservation concern in construction sites, with remedial measures such as setting of no works area around otter holts/den and translocation of important species identified, if any;	ng construction a nented as confor 2.7 (Ecological N	ming to the relevant information and
		No otter holts/dens and herpetofauna species of conservation concern were identified. 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 The pre-construction search has been carried out at Area, 2, 7 & 9 as well as LMC Loop and WCR site areas in May / June 2021 and June / July 2021 respectively before the Works commencement. No otter holts/dens and herpetofauna species of conservation concern were identified.
(b) creating and establishing an Ecological Area, approximately 12.78 ha. in size, containing reed marsh and marsh habitat prior to total clearance of reed marsh in the Loop, including a lowrise building buffer zone of 50m width from the Ecological Area, with appropriate screenplanting;	Yes	Ecological Area has been established under the Contract. Low-rise building buffer zone and screenplanting which will be provided under Main Works Package 1.
(c) stabilising the bank of the old Shenzhen River meander of the Loop, approximately 3.5 km long, including re-vegetation upon completion of the works	Yes	The EA design has implemented these measures.

EP Requirements	Compliance Status	Remarks
and various ecological designs, such as practicability of installation of otter holts and provision of potential feeding area and spraint locations for otters in the stabilised bank;		
(d) creating a 23 m minimum width vegetated setback at the edges of the Loop along the southwestern and north-eastern sections of the meander;	N/A	Vegetated setback will be provided under Main Works Package 1
(e) installing 3m-high olive green fence around construction areas to allow or deter different animal passages where appropriate;	Yes	The Contractor was reminded to maintain and re-arrange the green fence around construction areas and ensure no disturbance to the exiting trees and reed marsh habitat.
(f) providing (i) permanent compensatory off-site wetland areas; and (ii) construction stage temporary compensatory off-site wetland areas during various construction stages of the Project, in advance of any corresponding wetland loss;	Yes	Creation of off-site wetland areas have been substantially completed.
(g) providing at least 0.4 ha woodland compensation area by planting trees and shrubs near Horn Hill, to compensate for the loss of woodland affected by the Western Connection Road (WCR) and other works of the Project;	N/A	To be implemented under Main Works Package 1
(h) carrying out outside dry-season (from November to February next year), the construction works associated with the site formation in the Ecological Area, stabilization of the bank of the old Shenzhen River meander, Western Connection Road along Ha Wan Tsuen Road, to minimise disturbances to migratory birds/water birds;	Yes	-
(i) using powered mechanical equipment for construction works only during the period 9am to 5pm at and near the old Shenzhen River meander and other identified important ecologically sensitive areas, if any;	Yes	-
(j) prohibiting use of direct lighting on the old Shenzhen River meander and controlling nighttime lighting to reduce potential ecological impact;	Yes	-
(k) implementing measures to minimise magnitude of construction runoff and to avoid/minimise the potential impact of spillage events, if any; and	Yes	-
(l) using opaque noise barriers along the proposed roads and using appropriate glass and façade treatment for buildings in the Loop to minimise the mortality of fast-moving wildlife (e.g. birds).	Yes	The works for noise barriers along Lok Ma Chau Road were completed under the Contract in October 2021. Façade treatment for buildings in the Loop will be provided under the responsible works packages.
Four hard copies and two electronic copies of an Ecological Mitigation / Habitat Creation and Management Plan shall be, at least one month before the commencement of corresponding parts of the works of the Project, deposited with the Director. The Plan(s) shall show the design details, locations, implementation	Yes	Development of Lok Ma ChauLoop: Land Decontamination andAdvance Engineering WorksThe HCMP has been submitted andapproved under the EP condition 2.7.

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EP Requirements	Compliance Status	Remarks
programme, maintenance and management schedules, and drawings in the scale of 1:1,000 or other appropriate scale of the ecological mitigation measures of the Project. Before submission to the Director, the Plan(s) shall be certified by the ET Leader and verified by the IEC as conforming to the relevant information and recommendations contained in the EIA Report. All measures recommended in the finalised submission(s) under this Condition shall be fully and properly implemented.		Development of Lok Ma Chau Loop Main Works Package 1 – Design and Construction The HCMP has been submitted under the EP condition 2.7 and approved in December 2021.
Submissions or Measures to be implemented for Const	ruction of the P	roject
EP Condition 2.9 To mitigate construction stage noise in implemented during the construction stage of the Project:	npact, the follow	ing noise mitigation measures shall be
(a) temporary noise barriers shall be installed along the construction access roads to screen the construction traffic noise and noisy construction activities and equipment during different construction stages of the Project as described in Table 1 and Figures 2a, 2b, 3a and 2b of this Dermit	Yes	The temporary noise barriers (TNBs) along LMC Road were completed under the Contract in October 2021 (Figures 2a and 2b of EP- 477/2013/A). (Appendix N)
and 3b of this Permit;		The TNBs installation under Contract 2 were completed in August 2022 (Figures 3a and 3b of EP-477/2013/A). (Appendix N)
		Due to the updated site condition, TNB5 deems to serve the function of TNB16 before the commencement of road widening works of the Western Connection Road.
(b) use of movable noise barriers, noise enclosures and quiet powered mechanical equipment for the noisy construction activities and equipment as described in Table 1 and with reference to the typical designs as shown in Figure 4 of this Permit;	Yes	-
(c) concrete lorry mixer(s) shall be operated at least 25 m away from the noise sensitive receivers (NSRs) No. HWTR-6 and HWTR-11 at the Western Connection Road as shown in Figures 2b and 3b as described in Table 1 of this Permit to avoid exceedance due to cumulative construction noise; and	Yes	-
(d) no percussive piling nor blasting by explosive shall be implemented in the Project.	Yes	-
EP Condition 2.10 To Mitigate Construction Stage Fisher	ies Impact	
For some fish ponds which will be partly affected by construction works, to mitigate construction stage fisheries impacts, a layer of sheet pile/barrier wall shall be erected to separate the works area from the remaining areas of the affected fish ponds before the commencement of other construction works, e.g. excavation or filling within the works area. The sheet pile/barrier wall shall be constructed by non-percussive piling method (e.g. Press-in method) to reduce the fisheries impact. In addition, the sheet pile/barrier wall shall have impermeable lining to minimise water loss	Not applicable	 Based on the ground truthing during the weekly site inspections / site visits prior to the commencement of the works at all Ponds, no fisheries impacts were anticipated due to the following observation: No aquaculture activities include drying of ponds, reprofiling, harvesting and feeding;

EP Requirements	Compliance	Remarks
	Status	
from the fish pond to the works area.		 No evidence of recently used pond culture equipment; No presence of fish-rearing paraphernalia and No evidence of trimming of vegetation growing on pond bund. As such, the erection of sheet pile/barrier wall to mitigate construction stage fisheries impacts as stated in Condition 2.10 of the EP would not be applicable.
		would not be applicable.
EP Condition 2.12 To Mitigate Construction Stage Water		
To reduce sediment transport arising from the stabilisation works at the bank of the old Shenzhen River meander of the LMC Loop, cofferdam/diaphragm wall and/or silt curtain system shall be deployed to surround the works area, from water surface down to the bottom of the meander, in order to minimise the sediment loss to the water body outside the works areas.	Yes	Silt curtain system was deployed to surround the works area under YL/2020/01.
EP Condition 2.14 To Minimise the Disturbance to the Re	edbed System of	MTR LMC Spurline
For the construction of the Direct Link, the existing reeds in the reedbed system of the MTR LMC Spurline shall not be removed by the construction works of the Project, except for the 2 areas with a total area of approximately 320 m ² in size within the Reedbed No. 3 as shown in Figure 5 of this Permit. Upon the completion of works at the reedbed system, the affected reedbed system shall be reinstated.	Yes	These measures have been implemented under YL/2020/02.

Remark: N/A – Not fulfilled yet

Ecological Mitigation Measures – Offsite Wetland Compensation Areas (OWCAs)

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

- 10.5 Under Environmental Permit (EP) number EP-477/2013/A, an Ecological Mitigation/ Habitat Creation and Management Plan (HCMP) is required for all habitat compensation measures required by the Project EIA. The OWCAs are established according to the HCMP which provides a framework and specifications for development and management of the OWCAs.
- 10.6 The OWCAs (Areas 2, 7 and 9) has been substantial completed and the starting date of establishment period is confirmed by AFCD on 14 October 2022.
- 10.7 According to Section 6.1.2 of approved HCMP, the monitoring of the OWCAs have been commenced for the establishment period starting from 14 October 2022. The Environmental Team would undertake the monitoring role through relevant EIAO Documents, audit mechanisms, participation at meetings, as well as certification of results and reports according to EM&A Manual, Section 11.5.

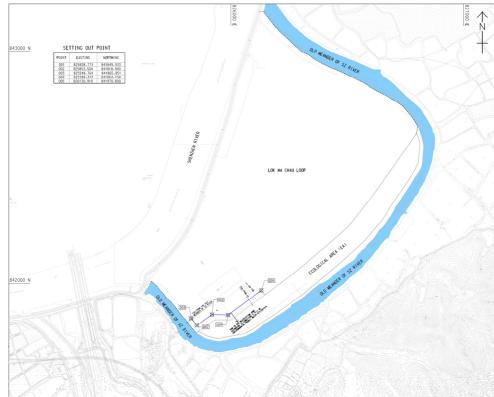
Ecological Mitigation Measures – Installation of 3m-high Olive Green Fence

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





10.9 Installation of the green fence alongside the Ecological Area and the Meander was proposed and completed on 20th May 2022. The layout plan of the green fence installation is shown below: -



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

11 ENVIRONMENTAL NON-CONFORMANCE (EXCEEDANCES)

Summary of Exceedances

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

Summary of Environmental Complaint

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

 Table 11.1
 Statistical Summary of Environmental Complaints

Reporting Period	Environmental Complaint Statistics		
	Frequency	Cumulative	Project related complaint
Jan 2019 – Dec 2022	17	17	1
Jan 2023	0		0

Summary of Notification of Summons and Successful Prosecutions

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

Reporting Period	Environmental Summons Statistics		
	Frequency	Cumulative	Project related summon
Jan 2019 – Dec 2022	0	0	0
Jan 2023	0		0

Reporting Period	Environmental Prosecution Statistics		
	Frequency	Cumulative	Project related Prosecution
Jan 2019 – Dec 2022	0	0	0
Jan 2023	0		0

 Table 11.3
 Statistical Summary of Environmental Prosecution

12 FUTURE KEY ISSUES

Key Issues in the Coming Months

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

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

- (a) 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 Works for Box Culverts
- (e) Piling Construction for Vehicular Bridge over the old Shenzhen River Meander
- (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
- (b) carriageway to divert traffic.
- (c) UU detection / trial pit to locate 132kv line and protection measures for subway modification works.
- (d) Demolition of Subway Cycle Track top portion and ramp walls Bay 12, 13 & 14
- (e) Excavation and lateral support for RW9
- (f) Construction of retaining wall RW9 base slab and wall stem Bay 9-16
- (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
- (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

Section 2B

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

Section 2C

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

Section 3

- (x) Ground investigation / Pre-drilling and Trial Pits for Bridge DRL
- (y) Bored pile and socketed H-Pile for Bridge DRL
- (z) ELS to Cofferdam, Pile Trimming/Treatment for DRL-P12 & P13
- (aa) Commence construction of Pile Cap and Pier at DRL-P12 & P13

Section 5

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

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

- (a) LMC Station L1 Installation of Support for Leaky Cables
- (b) EPTI GI Works and Bored Pile Construction
- (c) UU Diversion and GI Works at Double-deck Footbridge
- 12.2 The Contractor is recommended to arrange early preparation of water quality mitigation measures for the upcoming wet season (i.e. March to October). The dikes or embankments for flood protection should be implemented around the boundaries of earthwork areas. Temporary ditches should be provided to facilitate the runoff discharge into an appropriate watercourse, through a site/sediment trap. The sediment/silt traps should be incorporated in the permanent drainage channels to enhance deposition rates. Efficient silt removal facilities shall deploy to ensure all treated effluent from wastewater treatment plant shall meet the requirements as stated in WPCO licences. The site drainage plan shall also be updated based on the site condition and construction programme.

- 12.3 Dust can be generated during construction works and exposed site area especially in dry days. To prevent high dust concentrations, the Contractor should pay attention on the air quality mitigation measures as far as practicable to minimise the dust impact to the villages which are located adjacent to the Project works. The Contractor was also reminded to follow the Project Implementation Schedule in the approved EIA report / EM&A Manual to implement appropriate dust control measures including "watering in all works areas once per hour during working hours to control fugitive dust impact, particularly during dry weather and covering any excavated or stockpile of dusty material by impervious sheets and spraying all dusty material with water immediately prior to any loading transfer operations to keep the dusty materials wet during material handling at the stockpile areas" as well as the relevant dust control practices as stipulated in the Air Pollution Control (Construction Dust) Regulation such that no adverse dust impact would arise from the Project works.
- 12.4 Ecology is also one of the key environmental issues during construction of the Project. Noise pollution has a negative impact on wildlife species by reducing habitat quality. Therefore, noise mitigation measures such as using quiet plants and noise barriers should be in place, where applicable. In addition, the Contractor was reminded to frequently check and maintain the acoustic materials wrapped on noisy part of PME and ensure no gaps between noise barriers; proactively identify any potential construction noise impact to NSRs and provide sufficient mitigation measures if necessary. Moreover, the fencing used for the site boundary and as a visual barrier during the construction phase shall also be maintained at 3m high and of a dull or olive green colour, in order to minimise visual impact as this fencing is to shroud the most visible human activity (movement of persons and vehicles) from adjacent wetland areas. All ecological mitigation measures recommended in the Project Implemented and maintained as far as practicable.

Monitoring Schedule for the Next Month

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

Construction Programme for the Next Month

12.6 Tentative construction programmes are provided in Appendix A.

13 CONCLUSIONS AND RECOMMENDATIONS

Conclusions

13.1 The EM&A Report presents the EM&A works undertaken in January 2023 in accordance with EM&A Manual.

Air Quality

1-hour TSP Monitoring

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

24-hour TSP Monitoring

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

Construction Noise

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

Water Quality

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

Ecological Monitoring

<u>LMC Loop</u>

Avifauna (Flight Line Survey)

13.6 Avifauna monitoring was conducted as scheduled in the reporting month. Flight lines recorded were in general concentrated mainly on LMC Meander and adjacent areas including EA Zone and along Shenzhen River. It demonstrates that the large waterbirds including migratory waterbirds such as Great Cormorant 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

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

Western Connection Road

Avifauna (Flight Line Survey)

13.9 Avifauna monitoring was conducted as scheduled in the reporting month. Flight lines recorded were in general concentrated mainly on LMC Meander and adjacent areas including Ecological Area Zone (EA Zone) and along Shenzhen River. It demonstrates that the large waterbirds including migratory waterbirds such as Great Cormorant 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)

13.10 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 from 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.

Herpetofauna

13.11 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.

Aquatic fauna

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

Land Contamination

- 13.13 Decontamination for five arsenic-contaminated zones (LD01 LD05) identified in LMC Loop was completed and the final Remediation Report was submitted and approved by EPD in accordance with Condition 2.16 of the EP-477/2013/A under Contract No. YL/2017/03.
- 13.14 No work related to land contamination was conducted in the reporting month.

Environmental Site Inspection

13.15 Environmental site inspections were conducted on 4th, 9th, 11th, 12th, 16th, 18th, 26th and 30th January 2023 by ET in the reporting month.

Environmental Complaints, Summons and Prosecutions

- 13.16 No environmental complaint was received in the reporting month.
- 13.17 No notification of summons or successful prosecution was received in the reporting month.
- 13.18 The ET would keep track on the EM&A programme to ensure compliance of environmental requirements and the proper implementation of all necessary mitigation

measures.

Recommendations

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

Air Quality Impact

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

Noise Impact

- To inspect the noise sources inside the site;
- To space out noisy equipment and position the equipment as far away as possible from sensitive receivers; and
- To provide and maintain properly temporary noise barriers or other appropriate sound reduction measures for operations of noisy equipment 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 divert all the water generated from construction site to de-silting facilities with enough handling capacity before discharge;
- To provide protection around the storage area for excavated materials;
- 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 maintain the cover for the exposed slope surfaces by tarpaulin or other means;
- To designate the area for wheel washing and set up the associated drainage for water from a wheel wash;
- To pave the exit points; and
- 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 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

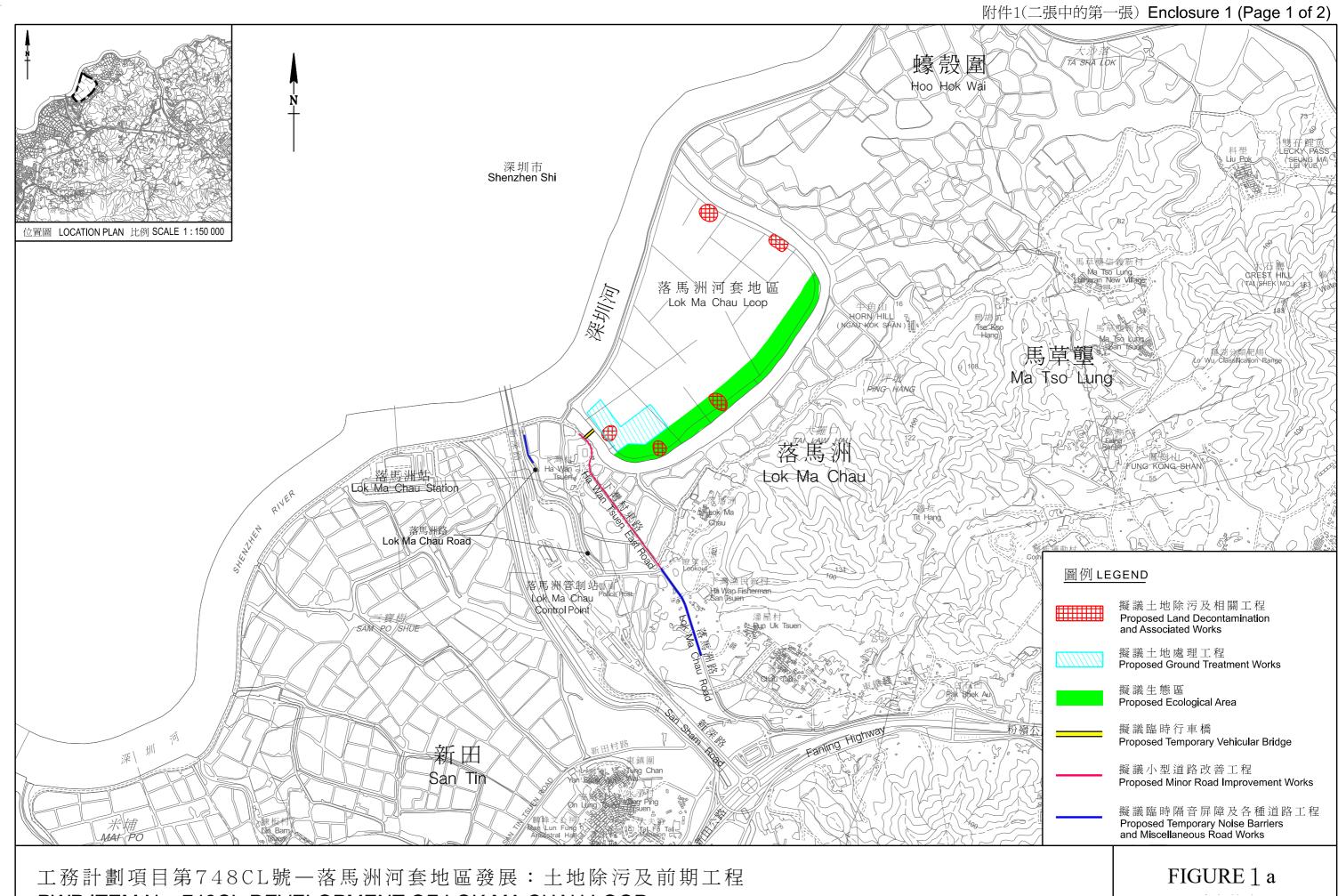
- To check for any accumulation of waste materials or rubbish on site;
- To carry out inspection of dump trucks at site exit to ensure inert and non-inert C&D materials are properly segregated before delivering off site;
- To avoid any discharge or accidental spillage of chemical waste or oil directly from the 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 avoid placing construction materials within the tree protection zone.

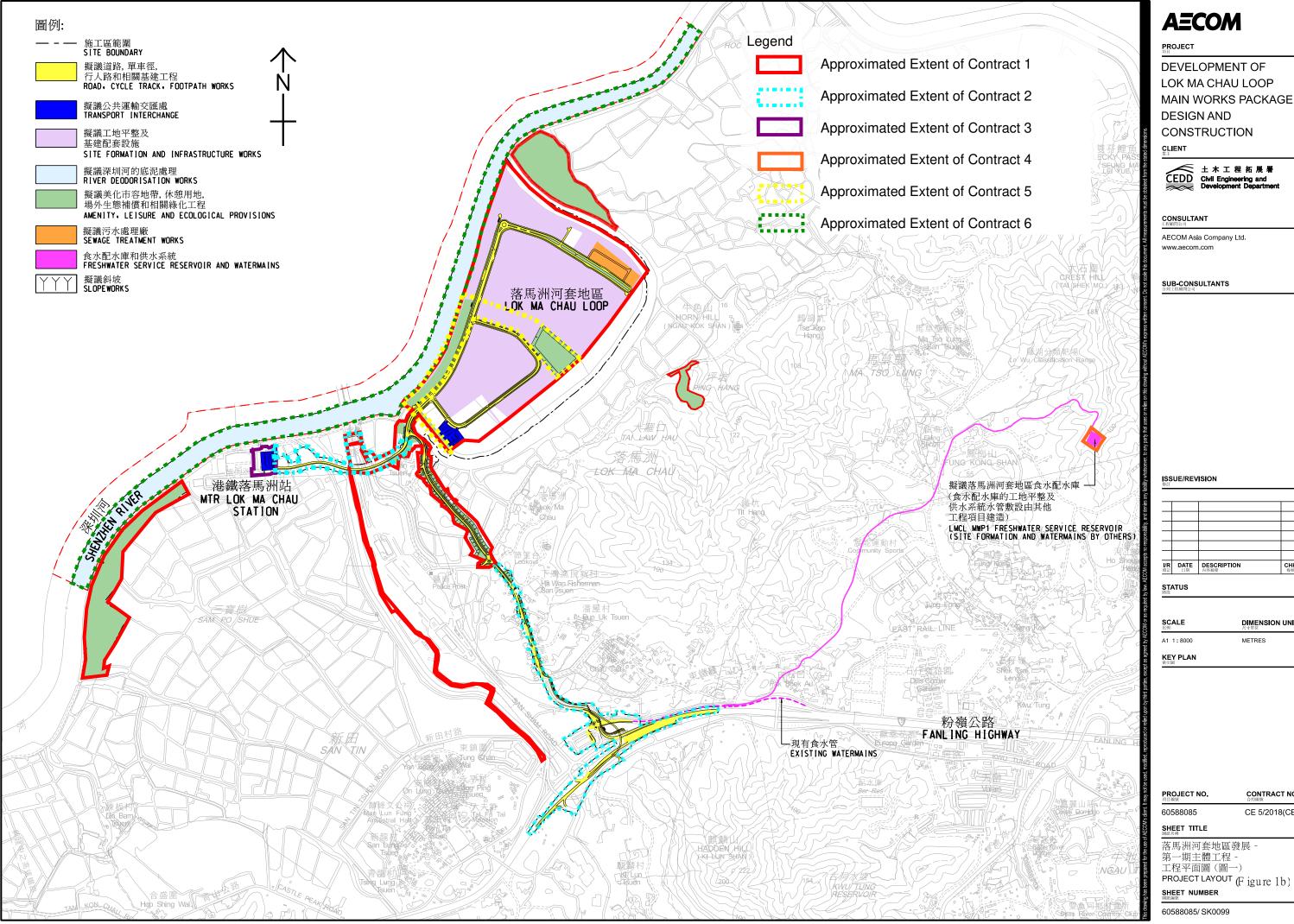
FIGURE(S)





PWP ITEM No. 748CL-DEVELOPMENT OF LOK MA CHAU LOOP : LAND DECONTAMINATION AND ADVANCE ENGINEERING WORKS

LAYOUT PLAN



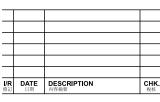
AECOM

DEVELOPMENT OF LOK MA CHAU LOOP MAIN WORKS PACKAGE 1



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

AECOM Asia Company Ltd.



I/R 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 複核
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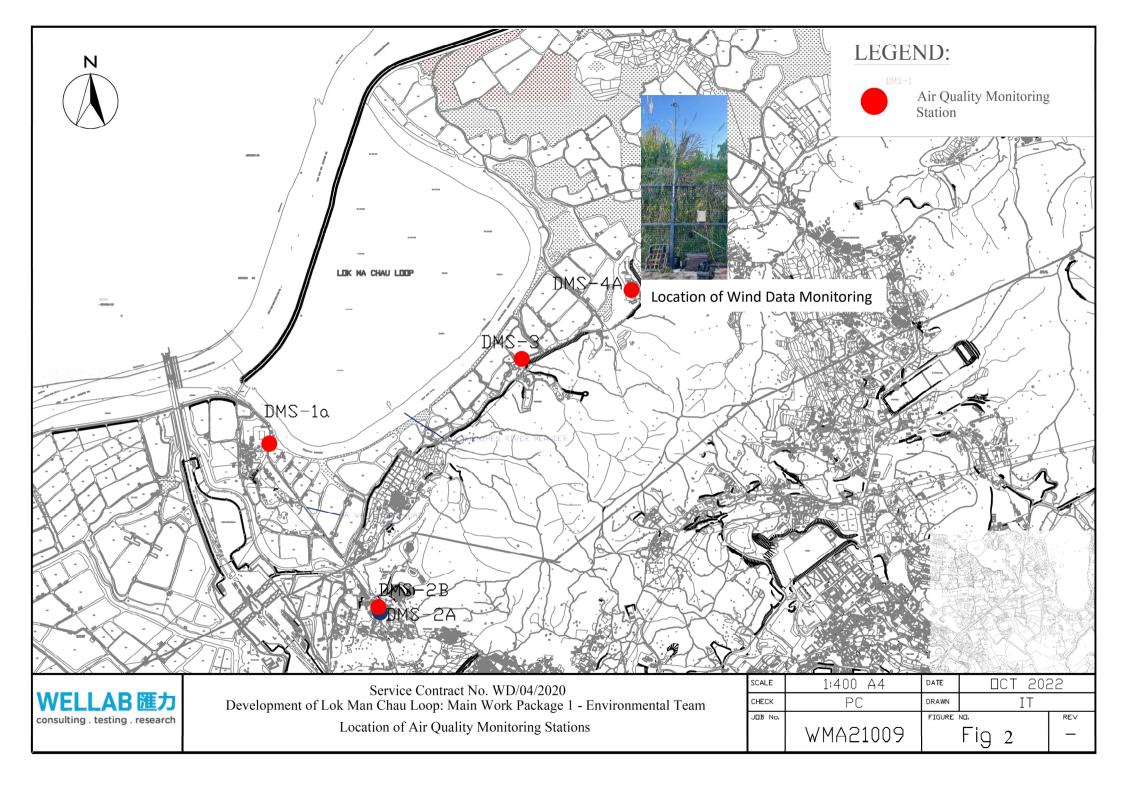
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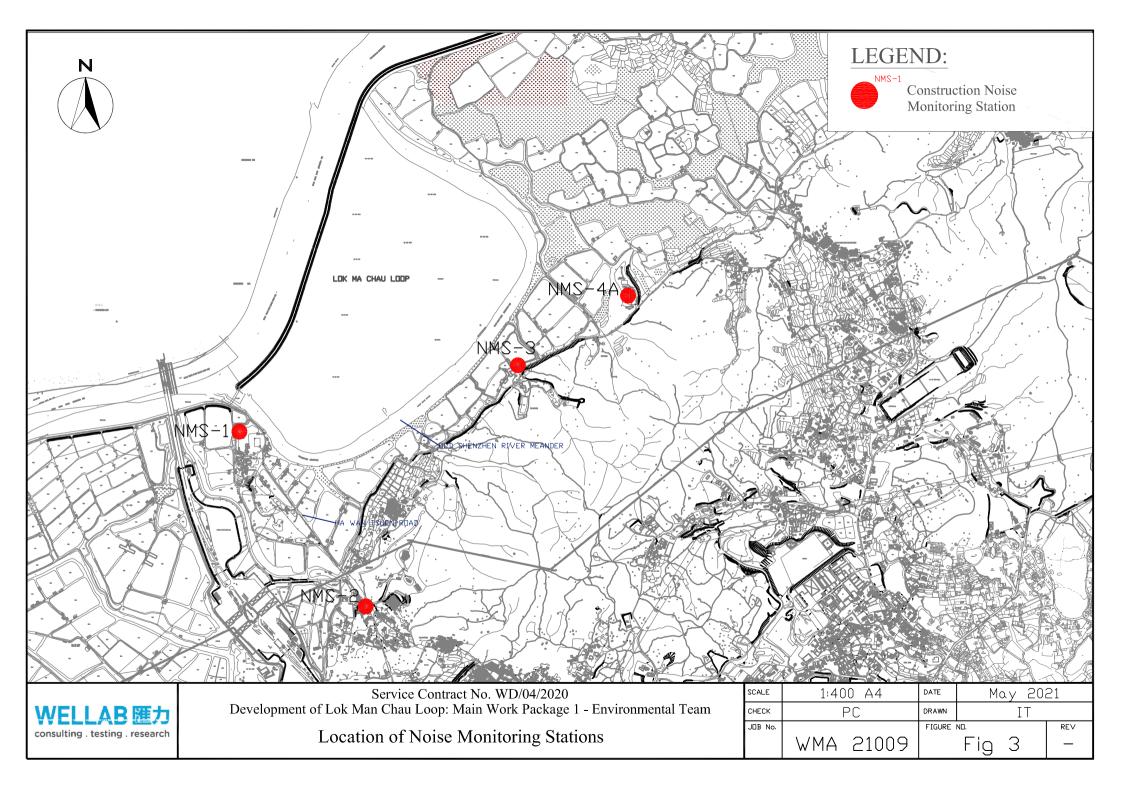
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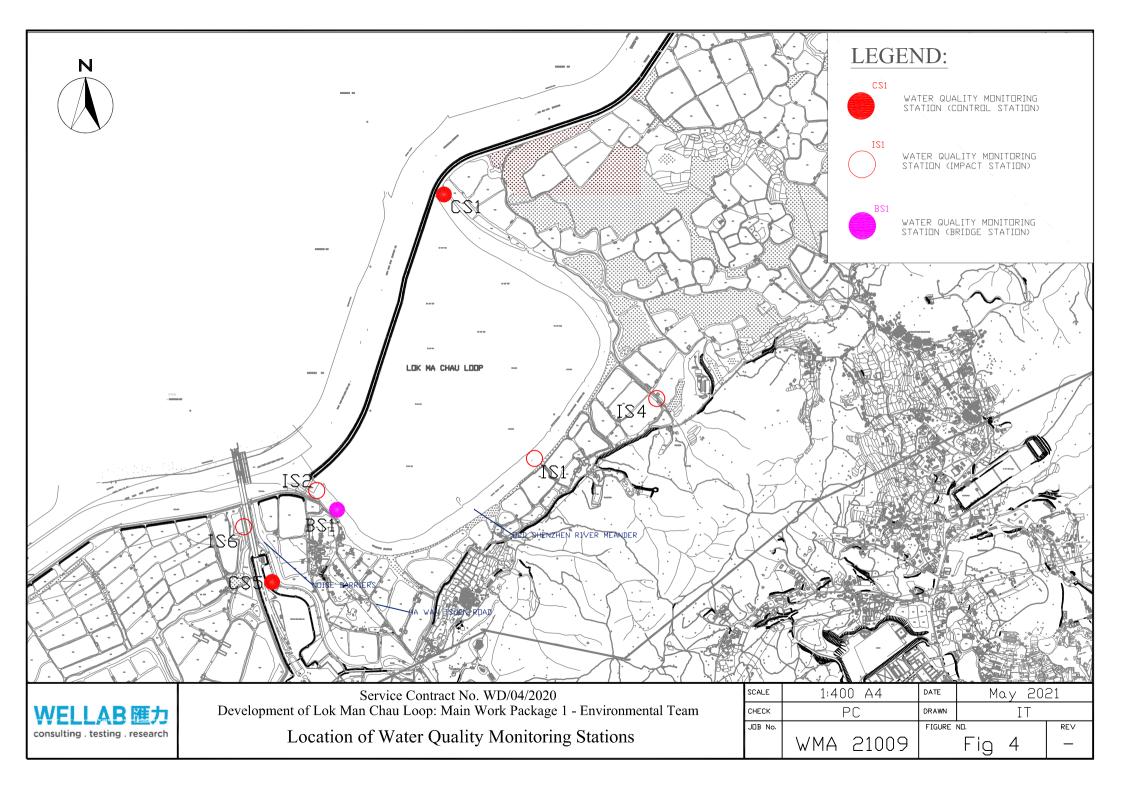
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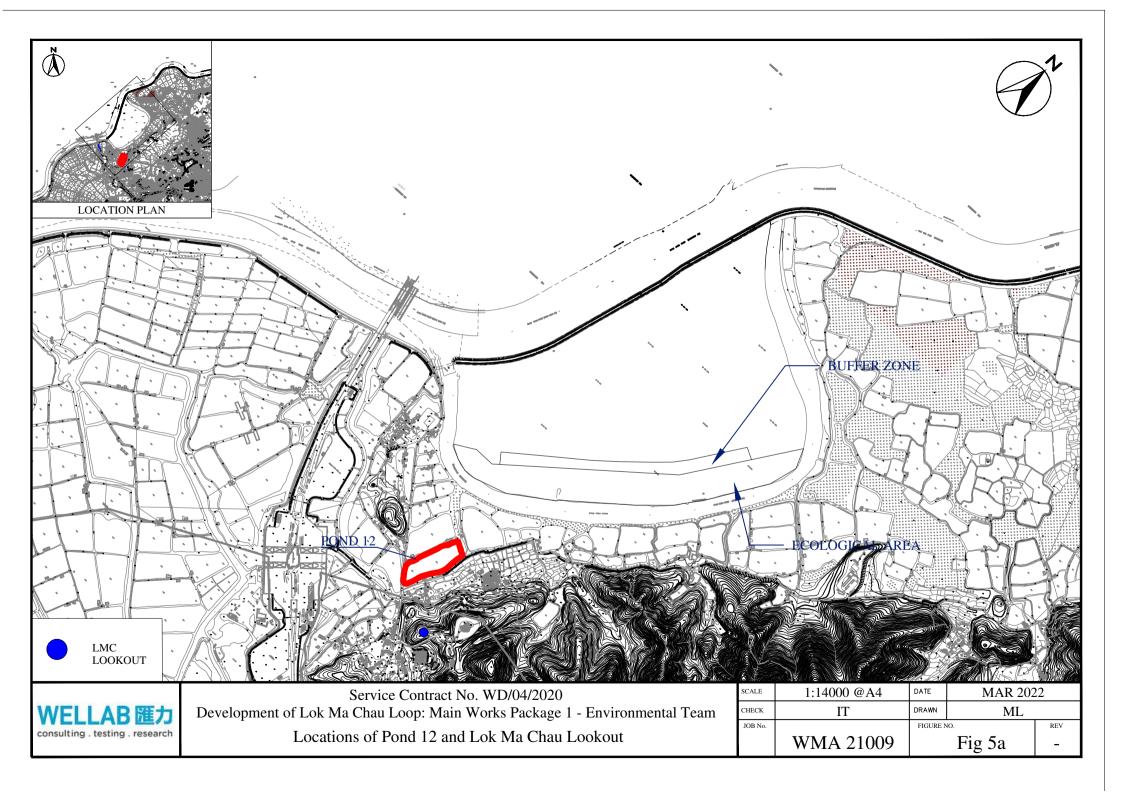
CONTRACT NO.

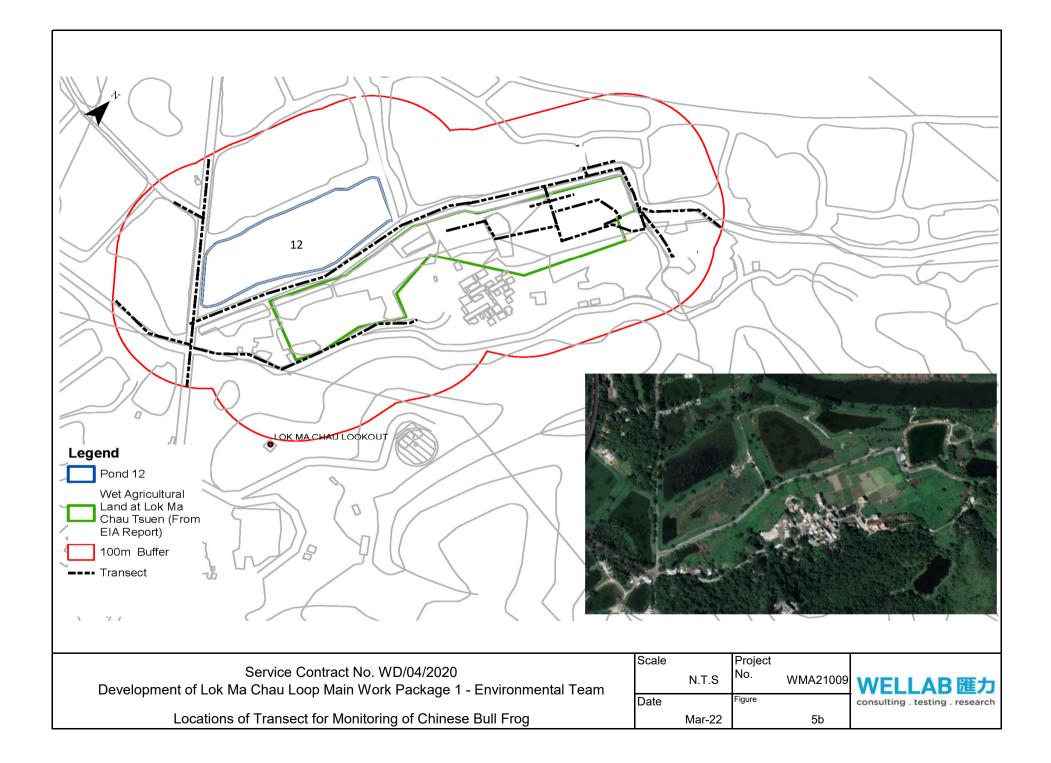
CE 5/2018(CE)

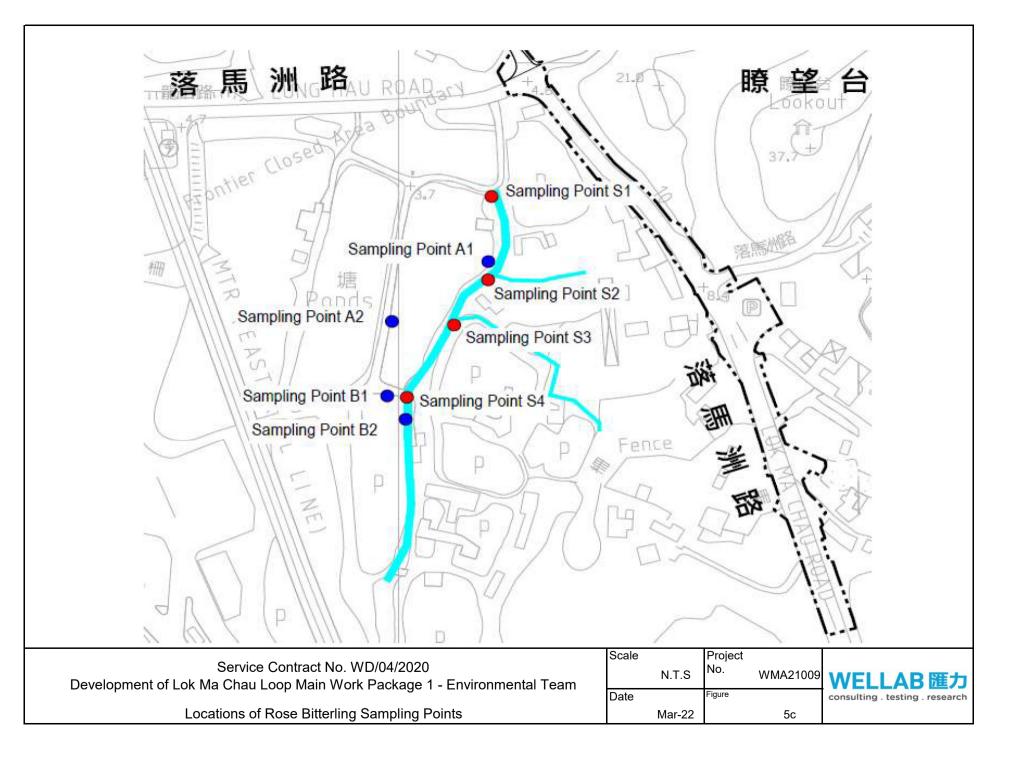


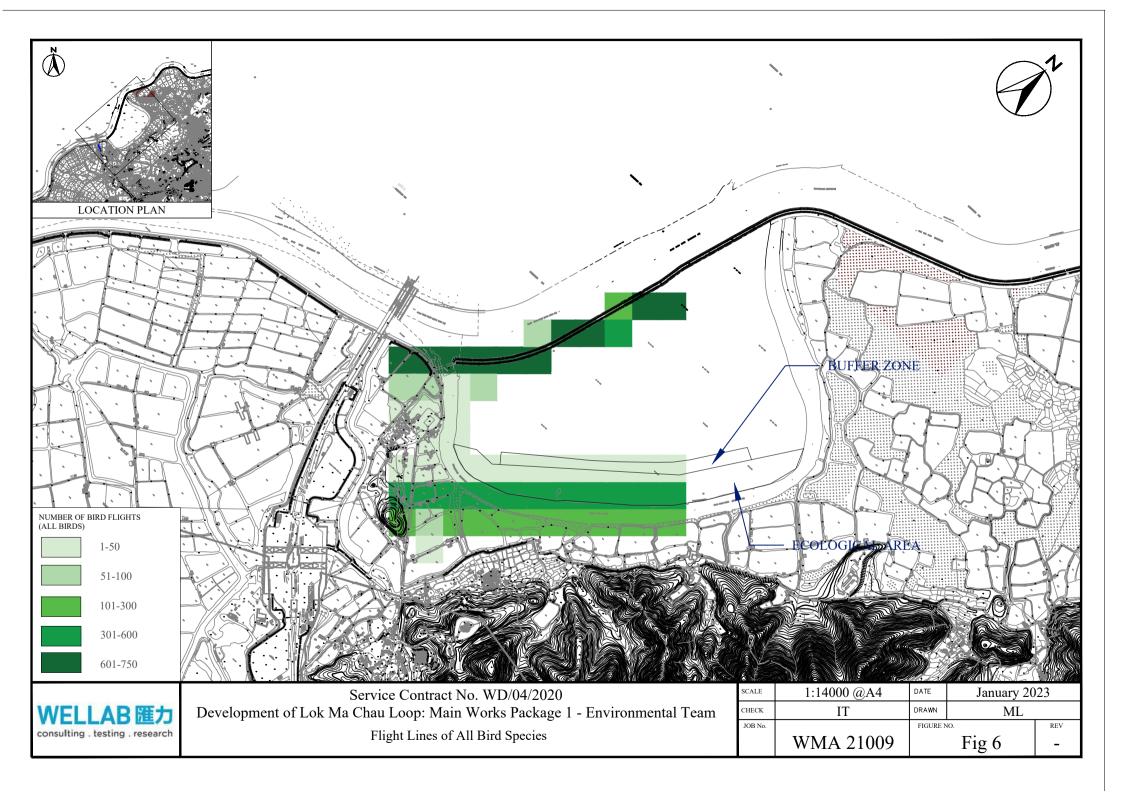












APPENDIX A CONSTRUCTION PROGRAMME Contract No. YL/2020/01 - Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 1 Site Formation and Infrastructure Works inside Lok Ma Chau Loop and Western Connection Road Phase 1

	Activity Name	Orig Dur	Early Start	Early Finish	Late Start	Late Finish	Total Float		Decem 26		_
								04	11	18	T
Contract No	o. YL/2020/01 - Detailed Programme Rev. 15	327	31-Aug-21 A	05-Feb-24	05-Feb-21	12-Nov-26	394				
Contract Data	Part 1	86	17-Dec-22A	27-Mar-23	06-Jan-23	12-Nov-26	1325		4 1 1		-
Contract Key D	Dates	0	05-Feb-23	05-Feb-23	05-Feb-23	05-Feb-23	0		, ! !		
KD01	KD1 (sd+570) - Complete of interim water mains	0		05-Feb-23*		05-Feb-23	0				
Contract Section	on Completions	86	17-Dec-22A	27-Mar-23	06-Jan-23	12-Nov-26	1325				ł
S09	Section S9 (sd+620d) - All the works in Portion 20 of the Site	0		27-Mar-23*		27-Mar-23	0				
S13 S14	Section S13 (sd+540d) - All the works in Portion 21 of the Site (excluding TAR 1) Section S14 (sd+520d) - Removal of existing surcharge mound to 6mPD in Portion 19 of the Site	0		06-Jan-23* 17-Dec-22A		06-Jan-23 12-Nov-26	0			Section S14	
	pletion Dates	122	22-Feb-22 A	28-Feb-23	24-Feb-21	12-1NOV-26	527			, Secilori Sita	
	-	191	22-Feb-22 A	28-Feb-23	20-Oct-21	17-Dec-21	-438		 		
	Events (raised by Contractor)								1 		!
CE-2213	Emergency Hospital and Community Isolation & Treatment Facilities	191 81	22-Feb-22 A 22-Jun-22 A	28-Feb-23 03-Feb-23	20-Oct-21 24-Feb-21	17-Dec-21 11-Nov-26	-438 536				!
	er's Instruction (PMI)	207	22-Jun-22 A	14-Jan-23	22-Nov-22	11-Nov-26	1397				
PMI051-120	Construction of Box Culvert A1 (Portion 7, L1) and Box Culvert C (Whole) (Quotation) PMI No. 051 - PM Review and Reply	14	22-Jun-22 A	14-Jan-23	22-Nov-22	05-Dec-22	-40		1 		
PMN-1140	Issue PMN for PMI051	0		14-Jan-23	22-1100-22	11-Nov-26	1397			-1	
PMI No. 052 - C	construction of Road L1 (Portion 18C) and Associated Civil Works (Quotation)	180	20-Jul-22 A	15-Jan-23	28-Oct-26	11-Nov-26	1396			-, ! !	;
PMI052-120	PMI No. 052 - PM Review and Reply	20	20-Jul-22 A	14-Jan-23	28-Oct-26	10-Nov-26	1396		·	-'	'
PMN-1010	Issue PMN for PMI052	0		15-Jan-23		11-Nov-26	1396				!
	construction of Road L1 and Associated HSITP Phase 1 Works (Quotation)	161	08-Aug-22 A	15-Jan-23	08-Dec-21	24-May-22	-236		 		
PMI054-120 PMN-1020	PMI No. 054 - PM Review and Reply Issue PMIN for PMI054	30 0	08-Aug-22 A	14-Jan-23 15-Jan-23	08-Dec-21	20-Dec-21 24-May-22	-390 -236				
	commence Civil Works in early March 2022 in connection with WCR (Quotation)	43	02-Aug-22 A	14-Jan-23	24-Feb-21	09-Mar-21	-230	<u> </u>			
PMI057-120	PMI No. 057 - PM Review and Reply	43	02-Aug-22 A	14-Jan-23	24-Feb-21	09-Mar-21	-676			4	
	arry-out Piling Works for the Construction of Box Culvert C (Whole) (Quotation)	57	09-Aug-22 A	16-Jan-23	06-Apr-22	20-Apr-22	-94				
PMI066-120	PMI No. 066 - PM Review and Reply	28	09-Aug-22 A	14-Jan-23	06-Apr-22	19-Apr-22	-270			-!	
PMN-1130	Issue PMN for PMI066	0		16-Jan-23		20-Apr-22	-221				
PMI No. 068 - C	arry-out Piling Works for Construction of Box Culvert A1 (From Ch0-120) (Quotation)	62	27-Jul-22 A	16-Jan-23	10-May-22	24-May-22	-83		 		
PMI068-120	PMI No. 068 - PM Review and Reply	14	27-Jul-22 A	14-Jan-23	10-May-22	23-May-22	-236			-,	
PMN-1120	Issue PMN for PMI068	0	00 Aur 20 A	16-Jan-23	00 Arr 20	24-May-22	-194 -94				
	Construction of Box Culvert C (Whole) (Quotation)	60	02-Aug-22 A	16-Jan-23	06-Apr-22	20-Apr-22			; 		
PMI069-120 PMN-1110	PMI No. 069 - PM Review and Reply Issue PMIN for PMI069	14 0	02-Aug-22 A	14-Jan-23 16-Jan-23	06-Apr-22	19-Apr-22 20-Apr-22	-270 -221				
	lox Culvert C (Whole) by 31 July 2023 (Quotation)	46	12-Sep-22 A	16-Jan-23	06-Apr-22	20-Apr-22	-94				·
PMI075-120	PMI No. 075 - PMI Review and Reply	14	12-Sep-22 A	14-Jan-23	06-Apr-22	19-Apr-22	-270		, 		
PMN-1050	Issue PMN for PMI075	0		16-Jan-23		20-Apr-22	-221				
PMI No. 076 - B	ox Culvert A (CH 0 to 75) (Quotation)	47	08-Sep-22 A	16-Jan-23	10-May-22	24-May-22	-83				· - -
PMI076-120	PMI No. 076 - PM Review and Reply	14	08-Sep-22 A	14-Jan-23	10-May-22	23-May-22	-236				
PMN-1060	Issue PMN for PMI076	0		16-Jan-23		24-May-22	-194				
	construction of Meander Bridge (Quotation)	42	23-Sep-22 A	14-Jan-23	18-May-22	31-May-22	-80		 		!-
PMI079-120	PMI No. 079 - PM Review and Reply	14	23-Sep-22 A	14-Jan-23	18-May-22	31-May-22	-228				!
PMN-1070	Issue PMN for PMI079 terim Site Office for Accommodating Contractor's Staff & Part of RSS (Quotation)	0 39	06-Oct-22 A	14-Jan-23 16-Jan-23	13-Oct-22	31-May-22 27-Oct-22	-188 -30				
PMI083-120	PMI No. 083 - PM Review and Reply	14	06-Oct-22 A	14-Jan-23	13-Oct-22	26-Oct-22	-80				
PMN-1080	Issue PMN for PMI083	0		16-Jan-23		27-Oct-22	-65				· -, -
PMI No. 085 - A	sbestos Investigation and Abatement Works (If Necessary) at R113 (Quotation)	27	05-Nov-22A	16-Jan-23	09-Mar-21	23-Mar-21	-231			1	
PMI085-120	PMI No. 085 - PM Review and Reply	14	05-Nov-22A	14-Jan-23	09-Mar-21	22-Mar-21	-663		·	-'	÷
PMN-1090	Issue PMN for PMI085	0		16-Jan-23		23-Mar-21	-535				-
PMI No. 086 - D	Deletion of CLP Ducts, Joint Bays and Draw Pits at WCR and Road L1 (Quotation)	50	17-Sep-22 A	30-Jan-23	12-Apr-22	10-May-22	-93] 		
PMI086-110	PMI No. 086 - Quotation Preparation and Submission	21	17-Sep-22 A	14-Jan-23	12-Apr-22	25-Apr-22	-264				!
PMI086-120 PMN-1100	PMI No. 086 - PM Review and Reply Issue PMIN for PMI086	14 0	15-Jan-23	28-Jan-23 30-Jan-23	26-Apr-22	09-May-22 10-May-22	-264 -214		 		
	iewerage Works in Section of Road L1 (SOL R200 approximately Ch 1170 to Ch. 1430	104	17-Oct-22 A	28-Jan-23	25-Jan-22	21-Feb-22	-341		 		
PMI099-110	PMI No. 099 - Quotation Preparation and Submission	21	17-Oct-22 A	14-Jan-23	25-Jan-22	07-Feb-22	-341				
PMI099-120	PMI No. 099 - PMI No. 099 - PM Review and Reply	14	15-Jan-23	28-Jan-23	08-Feb-22	21-Feb-22	-341				
PMI No. 103 - D	besign, Supply and Installation of Road Lighting w/in Road L1 Completed by 31 Jul 2	104	29-Oct-22 A	28-Jan-23	01-Apr-23	28-Apr-23	90			1	
PMI103-110	PMI No. 103 - Quotation Preparation and Submission	21	29-Oct-22 A	14-Jan-23	01-Apr-23	14-Apr-23	90				
PMI103-120	PMI No. 103 - PMI No. 103 - PM Review and Reply	14	15-Jan-23	28-Jan-23	15-Apr-23	28-Apr-23	90		1	1	+
	construction of Watermains in WCR to be completed by 31 October 2024	104	26-Oct-22 A	28-Jan-23	18-Jun-21	15-Jul-21	-562				
PMI104-110	PMI No. 103 - Quotation Preparation and Submission	21	26-Oct-22 A	14-Jan-23	18-Jun-21	01-Jul-21	-562			-,	
PMI104-120	PMI No. 103 - PMI No. 104 - PM Review and Reply	14 104	15-Jan-23 26-Oct-22 A	28-Jan-23 28-Jan-23	02-Jul-21 26-Jan-24	15-Jul-21 22-Feb-24	-562 390				-
P IVII NO. 106 - R PMI106-110	Revised Footing Design of Pai Lau at Lok Ma Chau Tsuen PMI No. 106 - Quotation Preparation and Submission					08-Feb-24			<u></u>	<u> </u>	
PMI106-1120	PMI No. 106 - PMI No. 106 - PM Review and Reply	21 14	26-Oct-22 A 15-Jan-23	14-Jan-23 28-Jan-23	26-Jan-24 09-Feb-24	22-Feb-24	390 390		1		
	emoval of Paving BLock in Constructed TAR3 and Re-use for Road L1	104	27-Oct-22 A	28-Jan-23	25-Jan-22	21-Feb-22	-341				
PMI107-110	PMI No. 107 - Quotation Preparation and Submission	21	27-Oct-22 A	14-Jan-23	25-Jan-22	07-Feb-22	-341				· - -
PMI107-120	PMI No. 107 - PMI No. 107 - PM Review and Reply	14	15-Jan-23	28-Jan-23	08-Feb-22	21-Feb-22	-341				
PMI No. 108 - D	emolition of Existing TAR3 for the Construction of Road L1	104	29-Oct-22 A	28-Jan-23	26-Apr-23	23-May-23	115				-1-
PMI108-110	PMI No. 108 - Quotation Preparation and Submission	21	29-Oct-22 A	14-Jan-23	26-Apr-23	09-May-23	115				
PMI108-120	PMI No. 108 - PMI No. 108 - PM Review and Reply	14	15-Jan-23	28-Jan-23	10-May-23	23-May-23	115				
	construction of Irrigation System w/in Road L1 (Ch 1170-1430) Completed by 31 Jul 20	104	26-Oct-22 A	28-Jan-23	23-Apr-23	20-May-23	112		1 1 1		!-
PMI109-110	PMI No. 109 - Quotation Preparation and Submission	21	26-Oct-22 A	14-Jan-23	23-Apr-23	06-May-23	112			-!	
PMI109-120	PMI No. 109 - PMI No. 109 - PM Review and Reply onstruction of Watermains for Flushing Water w/in Road L1 (Ch 1170-1430)	14 104	15-Jan-23 26-Oct-22 A	28-Jan-23 28-Jan-23	07-May-23 10-Jan-22	20-May-23 06-Feb-22	-356				
PMI110-110	PMI No. 110 - Quotation Preparation and Submission	21	26-Oct-22 A	14-Jan-23	10-Jan-22	23-Jan-22	-356			- 	
	PMI No. 110 - PMI No. 110 - PM Review and Reply	14	15-Jan-23	28-Jan-23	24-Jan-22	06-Feb-22	-356				1-
PMI110-120										-	



Actual Work
 Remaining Work

Critical Remaining Work

♦♦ Milestone

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	vd. 520d) De			\$d+540d) - All t nound to 6mPD	T	- r		Site (excluding	TAR 1)	, , ,				, , , ,	, , , ,			, , , , ,	, , , , ,	, , , ,
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 				PMI No. 075	- PM Review	v and R	eolv		, , ,	, , , ,	 			, , , , ,	, , , , ,		 	, , , , ,	, , 	, , ,
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				PMI No. 099	- Quotation F	Prepara	tion and \$	Submission											, , , , ,	
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				PMI No. 10	3 - Quotation F	Preparat	tion and \$	Submission	 	 	 			 	 		 <u> </u>	 	 	
		د ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ ـ				PM	No. 103	- PMI No. 103	- PM Review	and Reply								 ! ! !		
 				PMI No. 103	- Quotation F	Pteparat	tion and \$	Submission	, , ,						, ,,		; ; ;		, , ,	
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		 ! !		HIVII NO. 109	- Quotation F			Submission - PMI No. 109	- PM Review	and Reply	 			 	 		 	: # ! !	 	
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				PMI No. 110	X- Quotation F			Submission - PMI No. 110	- PM Review	and Reply					, , ,				, , ,	
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PMI115-100 PMI115-110	PMI No. 115 - Issued (30 Dec 2022) PMI No. 115 - Quotation Preparation and Submission	0 21	31-Dec-22A	30-Dec-22A 20-Jan-23	25-Dec-21	30-Nov-21 13-Jan-22	-372				· · · · · · •	PMI No. 115-	issued (30
PMI115-120	PMI No. 115 - PMI No. 115 - PM Review and Reply	14	21-Jan-23	03-Feb-23	14-Jan-22	27-Jan-22	-372						
	- Construction of Drainage Works w/in Road L1 (CH.1170-1430) Completed by 31 Jul 202	35	22-Nov-22A	03-Feb-23	19-Dec-21	21-Jan-22	-378						
PMI119-110	PMI No. 119 - Quotation Preparation and Submission	21	22-Nov-22A	20-Jan-23	19-Dec-21	07-Jan-22	-378		·				i
PMI119-120	PMI No. 119 - PMI No. 119 - PM Review and Reply	14	21-Jan-23	03-Feb-23	08-Jan-22	21-Jan-22	-378		 				
MI No. 120 ·	- Revised Drainage Design with Road L1 (Ch1170-1430)	35	22-Nov-22A	03-Feb-23	19-Dec-21	21-Jan-22	-378						
PMI120-110	PMI No. 120 - Quotation Preparation and Submission	21	22-Nov-22A	20-Jan-23	19-Dec-21	07-Jan-22	-378		;;-				
PMI120-120	PMI No. 120 - PMI No. 120 - PM Review and Reply	14	21-Jan-23	03-Feb-23	08-Jan-22	21-Jan-22	-378						,
MI No. 121 ·	- Provision of DN100 Watermain & Assoc. Plumbing & Make Water Supply Application 1	35	22-Nov-22A	03-Feb-23	04-Jan-22	06-Feb-22	-362						
PMI121-110	PMI No. 121 - Quotation Preparation and Submission	21	22-Nov-22A	20-Jan-23	04-Jan-22	23-Jan-22	-362						
PMI121-120	PMI No. 121 - PMI No. 121 - PM Review and Reply	14	21-Jan-23	03-Feb-23	24-Jan-22	06-Feb-22	-362						
MI No. 122 ·	- Revised Footing Design of Pai Lau at LMC Tsuen (Northern Footing)	35	01-Dec-22A	03-Feb-23	20-Jan-24	22-Feb-24	384						
PMI122-110	PMI No. 122 - Quotation Preparation and Submission	21	01-Dec-22A	20-Jan-23	20-Jan-24	08-Feb-24	384						
PMI122-120	PMI No. 122 - PMI No. 122 - PM Review and Reply	14	21-Jan-23	03-Feb-23	09-Feb-24	22-Feb-24	384		 -				
eliminary	and Preparations	250	31-Aug-21 A	22-Jul-23	30-Jun-21	11-Nov-26	470						
Ibletting		521	01-Sep-21 A	10-Jun-23	31-Jan-22	28-Apr-23	-35						
RE-310B	Subletting for Drainage and Roadworks for Road D1 (Under Closed Loop Management)	30	02-Mar-23	06-Apr-23	01-Apr-22	12-May-22	-269		·				
RE-315	Subletting for Pipe Works	30	21-Feb-22 A	06-Apr-23	07-Feb-22	12-May-22	-269		·				
RE-325	Subletting for Drainage Work and Roadwork for WCR	30	04-Mar-23	12-Apr-23	25-Apr-22	31-May-22	-255						
RE-365	Subletting for Modification and Maintainance of Existing Boundary Patrol Road (Area Under Closed Loop Management)	30	01-Mar-23	04-Apr-23	23-Feb-22	29-Mar-22	-300		 -				
RE-385A	Subletting for Irrigation System (Road D1)	45	20-Mar-23	16-May-23	23-Apr-22	17-Jun-22	-269						
RE-385B	Subletting for Irrigation System (Road L1 Ch 1170-1430) (PMI103, PMI109)	45	13-Feb-23	06-Apr-23	31-Jan-22	29-Mar-22	-301						
RE-390B	Subletting for Road Lighting at Road L1 (Ch 1170-1430) (PMI103, PMI109)	45	18-Apr-23	10-Jun-23	03-Mar-23	28-Apr-23	-35			:			
RE-395	Subletting for E&M Works at STW	173	01-Sep-21 A	13-Apr-23	22-Feb-22	02-Apr-22	-300						
RE-415A RE-432	Subletting for Civil Works for Utilities at Road D1 and Road L1 Subletting for Box Culvert (R.C. Works, OccupiedAreas)	45 28	20-Mar-23 20-Jan-22 A	16-May-23 25-Apr-23	23-Apr-22 21-Apr-22	17-Jun-22 25-Jul-22	-269 -221						
RE-432	Subletting for Box Culvert (Piling Works, OccupiedAreas) Subletting for Box Culvert (Piling Works, OccupiedAreas)	28	20-Jan-22 A 27-Jan-22 A	20-Apr-23 10-Mar-23	21-Apr-22 22-Feb-22	25-Jul-22 03-Mar-22	-221						
	nissions for the Works	250	31-Aug-21 A	22-Jul-23	30-Jun-21	11-Nov-26	470						
			-										, {
RE-435A	Prepare, Submit, Processing & Approval for Alternative Design for STW (On Hold)	255	31-Aug-21 A	22-Jul-23	20-Jul-22	05-Dec-22	-182						
RE-455	Prepare, Submit, Processing & Approval for Noise Barrier for Public Transportation Interchange (PTI) (On Hold)	90	01-Mar-23	20-Jun-23	06-Sep-22	22-Dec-22	-141						¦
RE-460 RE-465	Prepare, Submit, Processing & Approval for MiC and its Foundation for ADB of STW (On Hold) Approved Status of E&M Submissions for STW Batch 1	90	29-Mar-23	20-Jul-23 23-Apr-23*	22-Jun-22	08-Oct-22 16-Apr-22	-229 -372						
terim Water		39	16-Jan-23	06-Mar-23	21-Dec-21	02-Mar-22	-298						
D1-100	Interim Watermain - Design Preparation and Submission	18	16-Jan-23	09-Feb-23	21-Dec-21	13-Jan-22	-313						
D1-110	Interim Watermain - Design PM review	14	10-5ar-23	25-Feb-23	07-Feb-22	22-Feb-22	-298		 - 				
D1-120	Interim Watermain - Design Resubmission and Approval	7	27-Feb-23	06-Mar-23	23-Feb-22	02-Mar-22	-298						
	port Interchange (PTI)	42	16-Mar-23	09-May-23	22-Sep-22	11-Nov-22	-141		 - 				
57-497	PTI - Design for Foundation Temporary Works Preparation & Submission	21	16-Mar-23	13-Apr-23	22-Sep-22	18-Oct-22	-141						
57-498	PTI - Design for Foundation Temporary Works PM Review	21	14-Apr-23	09-May-23	19-Oct-22	11-Nov-22	-141						
67-502	PTI - Design for Noise Barrier Preparation & Submission	21	16-Mar-23	13-Apr-23	22-Sep-22	18-Oct-22	-141						
67-503	PTI - Design for Noise Barrier PM Review	21	14-Apr-23	09-May-23	19-Oct-22	11-Nov-22	-141						
AR3		6	29-Mar-22A	13-Jan-23	19-Apr-23	01-May-23	108						
KD2-105A	TAR 3 - Design Approval	6	29-Mar-22A	13-Jan-23	19-Apr-23	01-May-23	108			!-			
leander Brid		350	17-May-22 A	18-Apr-23	17-Mar-22	02-Nov-22	-132		III I I I I I				
√D7-613	Meander Bridge Pier Cap and Abutment Cofferdam - Design (Temporary Works) Resubmission	6	17-May-22 A	05-Jan-23	12-Apr-22	14-Apr-22	-215						/leander Bi
<d7-614< td=""><td>Meander Bridge Pier Cap and Abutment Cofferdam - Design (Temporary Works) Approval</td><td>7</td><td>28-Nov-22A</td><td>06-Jan-23</td><td>19-Apr-22</td><td>19-Apr-22</td><td>-215</td><td></td><td></td><td></td><td></td><td></td><td>Meander</td></d7-614<>	Meander Bridge Pier Cap and Abutment Cofferdam - Design (Temporary Works) Approval	7	28-Nov-22A	06-Jan-23	19-Apr-22	19-Apr-22	-215						Meander
√ D7-617	Meander Bridge Superstructure - Design (Temporary Works) Preparation & Submission	30	07-Jan-23	15-Feb-23	30-Jul-22	02-Sep-22	-132		I I I				
CD7-618	Meander Bridge Superstructure - Design (Temporary Works) PM Review	21	16-Feb-23	11-Mar-23	03-Sep-22	28-Sep-22	-132						
(D7-619	Meander Bridge Superstructure - Design (Temporary Works) Resubmission	14	13-Mar-23	28-Mar-23	29-Sep-22	17-Oct-22	-132		· · · · · · · · · · · · · · · · · · ·				
KD7-620	Meander Bridge Superstructure - Design (Temporary Works) Approval	14	29-Mar-23	18-Apr-23	18-Oct-22	02-Nov-22	-132						
CD7-650	Meander Bridge (PMI No. 048) Revised Design Resubmission	9	01-Aug-22 A	07-Jan-23	17-Mar-22	22-Mar-22	-236						Meand
KD7-660	Meander Bridge (PMI No. 048) Design Approval	14	30-Aug-22 A	04-Feb-23	17-Mar-22	19-Apr-22	-236						
	nnection Road (WCR)	29	05-Aug-22 A	20-Feb-23	30-Jun-21	13-Aug-21	-447						
36-9177	WCR - Design (Temporary Platform for DCM) Resubmission	14	05-Aug-22 A	03-Feb-23	30-Jun-21	28-Jul-21	-447						
S6-9187	WCR - Design (Temporary Platform for DCM) Approval	14	22-Aug-22 A	20-Feb-23	29-Jul-21	13-Aug-21	-447						
ite Office		363	07-Feb-22 A	02-May-23	18-Dec-21	23-May-22	-278		. 	 			
	ception & Atrium Module	353	18-Feb-22 A	02-May-23	22-Feb-22	23-Apr-22	-301			 ! !			
PRE-0895	Innohub - Schematic for Approval	12	18-Feb-22 A	10-Mar-23	22-Feb-22	03-Mar-22	-301						
PRE-0900	Innohub - Steel Structure Detail Design	12	18-Feb-22 A	10-Mar-23	22-Feb-22	03-Mar-22	-301						
PRE-0910	Innohub - Facade Detail Design	25	18-Feb-22 A	25-Mar-23	04-Mar-22	29-Mar-22	-292						1
PRE-0915	Innohub - MEP Detail Design	25	18-Feb-22 A	25-Mar-23	09-Mar-22	02-Apr-22	-288						
PRE-1005	Innohub - Interior Detail Design	25 21	18-Feb-22 A	25-Mar-23	09-Mar-22	02-Apr-22	-288						
PRE-1045	Innohub - Exterior Staircase Design and Procurement	31 363	22-Mar-23 07-Feb-22 A	02-May-23 02-May-23	15-Mar-22 18-Dec-21	23-Apr-22 23-May-22	-301 -278						
PRE-0919	PM Office - Foundation Design	25	11-Feb-22 A	29-Mar-23	18-Dec-21	19-Jan-22	-276						
PRE-0919	PM Office - Steel Structure Detail Design	13	07-Feb-22 A	29-1viar-23 25-Mar-23	04-Mar-22	19-Jar - 22 18-Mar-22	-349		!!- 				
PRE-1055	PM Office - Exterior Staircase Design and Procurement	31	22-Mar-23	02-May-23	12-Apr-22	23-May-22	-278		''- '				
	itment Works	632	01-Sep-21 A	25-May-23	18-Feb-22	01-Jul-22	-328						
GTW - E&M		632	01-Sep-21 A	25-May-23	18-Feb-22	01-Jul-22	-328						
PRE-EM005	Subletting for E&M Subcontractor at STW	122	01-Sep-21 A	13-Apr-23	18-Feb-22	02-Apr-22	-376						
PRE-EM010	Submit CV of Treatment Specialist	0	14-Apr-23		07-Apr-22		-372						
PRE-EM015	Design Team of E&M Subcontractor Move in to LMCL S te Office	0	14-Apr-23*		29-Apr-22		-349						
	mission Schedule	10	14-Apr-23	23-Apr-23	07-Apr-22	16-Apr-22	-372						
PRE-EM020	Preparation & Submission of Design Submission Schedule	10	14-Apr-23	23-Apr-23	07-Apr-22	16-Apr-22	-372						
PRE-EM030	Preparation & Submission of Drawing Submission Schedule	10	14-Apr-23	23-Apr-23	07-Apr-22	16-Apr-22	-372						
Equipment a	& Material Submission Schedule	10	14-Apr-23	23-Apr-23	07-Apr-22	16-Apr-22	-372		·				,
PRE-EM040	Preparation & Submission of Equipment & Material Submission Schedule	10	14-Apr-23	23-Apr-23	07-Apr-22	16-Apr-22	-372						
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Actual Work

Remaining Work

Critical Remaining Work ♦♦ Milestone

Contract YL/2020/01 - Lok Ma Chau Loop Mair Three Month Rolling Progra

Finish	Total	Decemi	ber	Ji	anuary 27		February				March				Apr 30		
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Nov-21		• •	•	PMI No. 115 - Issued (30 Dec	2022)		<u>_</u>	• 	·		· ·		• 	.			
Jan-22	-372				PMI No. 115 - (Quotation Preparation and		¦ -¦					; ;	; ;		·	
Jan-22	-372 -378				· · · · · · · · · · · · · · · · · · ·	PMI No. 1	15 - PMI No. 115	PM Review ar	rd Reply								
Jan-22 Jan-22	-378											, , ,				· · · · · · · · · · · · · · · · · · ·	
Jan-22	-378	·	JJJJJJ		PMI No. 119-4	Quotation Preparation and	9 - PMI No. 119	PM Review ar	nd Benly		 	 				·	
Jan-22	-378	·			· · · · · · · · · · · · · · · · · · ·									. <u>.</u>			
Jan-22	-378	·	······································	'	PMI No. 120 -	Quotation Preparation an	d Submission							+			
Jan-22	-378						20 - ¦PMI No. 120	PM Review a	nd Reply				,	· · · · · · · · · · · · · · · · · · ·			
Feb-22	-362						, , ,				, , , ,						
Jan-22	-362				PMI No. 121 -	Quotation Preparation an			·			 		· 			
Feb-22	-362	·····				PMI No. 1	21 - PMI No. 121	PM Review a	nd Reply							·	
Feb-24	384	 	1 1 1 1 					-			' ' -	 		+			
Feb-24 Feb-24	384 384		·		PMI No. 122-	Quotation Preparation an	22 - PMI No. 122	PM Raviaw a	nd Reniv			 		+		· · · · · · ·	
Nov-26	470										 -	 		+			
Apr-23	-35							÷									
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May-22 May-22	-269 -269				· · · · · · · · · · · · · · · · · · ·										ubletting for Dr ubletting for Pip	ainage and Road	Works for H
May-22	-255															letting for Draina	age Work a
Mar-22	-300						· L							Suble		ation and Mainta	
Jun-22	-269								·		 			. <u>.</u>			
Mar-22	-301	·····				····								S	ubletting for Irr	gation System (I	Road L1 Ch
Apr-23 Apr-22	-35 -300				·	·····									o	ubletting for E&V	1 Worke at
Jun-22	-269					· · · · · · · · · · · · · · · · · · ·									3		
Jul-22	-221	······	//														Sub
Mar-22	-301								· · · · · · · · · · · · · · · · · · ·		Subletting for	Box Culvert (P	iling Works, (OccupiedAreas)			
Nov-26	470		ļ														
Dec-22	-182	·	· ·		· · · · · · · · · · · · · · · · · · ·		·							·			
Dec-22 Oct-22	-141 -229													· <u>+</u>		<u>-</u>	
Apr-22	-372										- 			·			Approve
Mar-22	-298	·	·····			·	· <u> </u>							· +			, , , , , , , , , , , , , , , , , , ,
Jan-22	-313	·					Interim Waterr	nain - Design P	rieparation and \$	Submission	- 						
Feb-22	-298				· +						gn PM review			+		· · · · · · · · · · · · · · · · · · ·	
Mar-22	-298		, , , , , , , , , , , , , , , , , , ,							Interim	Watermain - D	esign Resubr	ission and Ap	proval		· · · · · · · · · · · · · · · · · · ·	
Nov-22	-141				· · · · · · · · · · · · · · · · · · ·			¦ -¦	·					· · · · · · · · · · · · · · · · · · ·			
Oct-22	-141	·····											;	· ;	P	TI - Design for F	oundation T
Nov-22 Oct-22	-141 -141													·		TI - Design for N	loico Porrio
Nov-22	-141	· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·		·							- 			
May-23	108		·				·							· 			
May-23	108				TAR 3 - Design Approval		· L							.ii		i.	
Nov-22	-132	·	//				· L					/ 		· ±			
Apr-22	-215		······	Meander Bridge	Pier Cap and Abutment Coffer	rdam - Design (Temporar	y Works) Resub	nission			-i			+			
Apr-22	-215		· · · ·	Meander Brid	e Pier Cap and Abutment Col	ferdam - Design (Tempor						, ,					
Sep-22 Sep-22	-132 -132		· · · · · · · · · · · · · · · · · · ·			·	M	eander Bridge S	uperstructure -	Design (Temp					orteo) DNA Dovi		
Oct-22	-132						·							n (Temporary W nder Bridge Sug		esign (Temporar	rv Works) I
Nov-22	-132						·					1 · · · · ·	;				er Bridge Su
Mar-22	-236			Meander Br	dge (PMI No. 048) Revised D	esign Resubmission							,				
Apr-22	-236		· · · · · · · · · · · · · · · · · · ·			Meande	Bridge (PMI No	048) Design A	pproval					+			
Aug-21	-447								 				; ;	· +		·	
Jul-21 Aug-21	-447 -447				· · · · · · · · · · · · · · · · · · ·	WCR-D	esign (Temporary		CM) Resubmis Design (Temp							· · · · · · · · · · · · · · · · · · ·	
May-22	-44/ -278	1						WCK-	ຼມສາຢາ (rempo	⊿ayrall0rm		ova 		· <u>1</u>		· · · · · · · · · · · · · · · · · · ·	
Apr-22	-301		 								 	 		+			
Mar-22	-301				· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·					Innohub - Sch	ematic for App	roval			· · · · · · · · · · · · · · · · · · ·	
Mar-22	-301		·		·	L	L	-	·····		Innohub - Stee			· • • • • • • • • • • • • • • • • • • •			
Mar-22	-292		· · · · · · · · · · · · · · · · · · ·									·		acade Detail De			
Apr-22 Apr-22	-288 -288				· · · · · · · · · · · · · · · · · · ·	·	·							AEP Detail Desig			
Apr-22 Apr-22	-288 -301												iririonud-1	nterior Detail De	sigi1	· · · · · · · · · · · · · · · · · · ·	
May-22	-278																
Jan-22	-349	· · · · · · · · · · · · · · · · · · ·	· ·		· · · · · · · · · · · · · · · · · · ·		· L				·		PN	/ Office - Found	ation Design		
Mar-22	-301	·	·						·····					- Steel Structure		· · · · · · · · · · · · · · · · · · ·	
May-22	-278		· · · · · · · · · · · · · · · · · · ·						·								
Jul-22	-328										 - 						
Jul-22	-328								·								
Apr-22	-376 -372		J		· · · · · · · · · · · · · · · · · · ·		L						J			ubletting for E&N Submit CV of Tre	
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Apr-22	-372							- -			··				₹		
Apr-22	-372		· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·	· <u>-</u>		·····					· · · · · · · · · · · · · · · · · · ·			Prepara
Apr-22	-372								·		· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·			Prepara
Apr-22	-372	·	; {					; 			- 		; ;				
Apr-22	-372													++			Prepara
Apr-22	-372	1	: :			1		1									Prepara
20/04	ا ملا	Ma Chau Loom	Main Warka D	ackado 1		Project ID : d.	YL15-230116					Т		n Rolling Pro	gramme		
		-	o Main Works P	aunaye i		Layout : YL-0	2 3MRP				Date		Revisio	1 I	Checked	Appro	ved
ree N	lont	h Rolling P	rogramme			Date : 31-Oct-	22/ Page 2 of	10		31	-Dec-22	MPR	No. 18				
		•	-														

D	Activity Name	Orig Dur	Early Start	Early Finish	Late Start	Late Finish	Total Float	
Inlet Works (I	Primary Treatment System)	42	14-Apr-23	25-May-23	21-May-22	01-Jul-22	-328	04 11
PRE-EM070	Preparation & Submission of Inlet Works (Primary Treatment System)	42	14-Apr-23	25-May-23	21-May-22	01-Jul-22	-328	
Primary Sedi	mentation System	42	14-Apr-23	25-May-23	07-Apr-22	18-May-22	-372	
PRE-EM100	Preparation & Submission of Primary Sedimentation System	42	14-Apr-23	25-May-23	07-Apr-22	18-May-22	-372	
ox Culverts		100	16-Aug-22 A	10-May-23	19-Feb-22	11-Nov-26	499	
Box Culvert A1		14	17-Aug-22 A	18-Jan-23	11-Jun-22	27-Jun-22	-169	
KD6-200	Box Culvert A1 (Portion 7,L1) - Design for Temporary Works Approval	14	17-Aug-22 A	18-Jan-23	11-Jun-22	27-Jun-22	-169	·
12A-102	1 (Ch 75-274.779) Box Culvert A1 (Portion 18A) - Design for Temporary Works Preparation and Submission (Area Occupied)	56	01-Mar-23 01-Mar-23	10-May-23 16-Mar-23	09-Apr-22 09-Apr-22	21-Mar-23 28-Apr-22	-38 -262	
12A-102 12A-103	Box Culvert A1 (Portion 18A) - Design for Temporary Works PM Review	21	17-Mar-23	14-Apr-23	29-Apr-22	25-May-22	-202	
12A-104	Box Culvert A1 (Portion 18A) - Design for Temporary Works Resubmission	7	15-Apr-23	22-Apr-23	26-May-22	02-Jun-22	-262	
12A-105	Box Culvert A1 (Portion 18A) - Design for Temporary Works Approval	14	24-Apr-23	10-May-23	04-Jun-22	20-Jun-22	-262	
12C-107	Box Culvert A1 (Portion 18C) - Design for Temporary Works Preparation and Submission (Area Occupied)	14	01-Mar-23	16-Mar-23	19-Jan-23	08-Feb-23	-31	
12C-108	Box Culvert A1 (Portion 18C) - Design for Temporary Works PM Review	21	17-Mar-23	14-Apr-23	09-Feb-23	04-Mar-23	-31	
12C-109	Box Culvert A1 (Portion 18C) - Design for Temporary Works Resubmission	7	15-Apr-23	22-Apr-23	06-Mar-23	13-Mar-23	-31	
12C-110	Box Culvert A1 (Portion 18C) - Design for Temporary Works Approval	7	24-Apr-23 01-Mar-23	02-May-23 10-May-23	14-Mar-23 19-Feb-22	21-Mar-23 29-Apr-22	-31 -303	
Box Culvert A3	Box Culvert A3 (Portion 18B) - Design for Temporary Works Preparation and Submission (Area Occupied)	14	01-Mar-23	16-Mar-23	19-Feb-22	07-Mar-22	-303	
12B-102	Box Culvert A3 (Portion 18B) - Design for Temporary Works PM Review	21	17-Mar-23	14-Apr-23	08-Mar-22	31-Mar-22	-303	
12B-104	Box Culvert A3 (Portion 18B) - Design for Temporary Works Resubmission	7	15-Apr-23	22-Apr-23	01-Apr-22	09-Apr-22	-303	
12B-106	Box Culvert A3 (Portion 18B) - Design for Temporary Works Approval	14	24-Apr-23	10-May-23	11-Apr-22	29-Apr-22	-303	
Box Culvert C		14	16-Aug-22 A	12-Jan-23	31-Oct-26	11-Nov-26	1399	
S9-205	Box Culvert C (Portion 20) - Design for Temporary Works Approval	14	16-Aug-22 A	12-Jan-23	31-Oct-26	11-Nov-26	1399	
etaining Wal	IS	86	02-Feb-23	18-May-23	27-Nov-21	13-Apr-22	-321	
RW1		42	13-Mar-23	05-May-23	23-Feb-22	13-Apr-22	-310	
RW-140	RW1 - Design for Temporary Works Preparation & Submission	14	13-Mar-23	28-Mar-23	23-Feb-22	10-Mar-22	-310	
RW-150 RW-160	RW1 - Design for Temporary Works RM Review RW1 - Design for Temporary Works Resubmission	14	29-Mar-23 19-Apr-23	18-Apr-23 26-Apr-23	11-Mar-22 28-Mar-22	26-Mar-22 04-Apr-22	-310 -310	
RW-170	RW1 - Design for Temporary Works Approval	7	27-Apr-23	05-May-23	06-Apr-22	13-Apr-22	-310	
RW2		42	13-Mar-23	05-May-23	28-Dec-21	21-Feb-22	-353	
RW-200	RW2 - Design for Temporary Works Preparation & Submission	14	13-Mar-23	28-Mar-23	28-Dec-21	13-Jan-22	-353	
RW-210	RW2 - Design for Temporary Works PM Review	14	29-Mar-23	18-Apr-23	14-Jan-22	29-Jan-22	-353	
RW-220	RW2-Design for Temporary Works Resubmission	7	19-Apr-23	26-Apr-23	31-Jan-22	12-Feb-22	-353	
RW-230	RW2 - Design for Temporary Works Approval	7	27-Apr-23	05-May-23	14-Feb-22	21-Feb-22	-353	
RW3	RW3 - Design for Temporary Works Preparation & Submission	28	29-Mar-23 29-Mar-23	05-May-23	14-Jan-22	21-Feb-22 29-Jan-22	-353	
RW-300 RW-310	RW3 - Design for Temporary Works PM Peview	14	29-1viar-23 19-Apr-23	18-Apr-23 05-May-23	14-Jan-22 31-Jan-22	29-Jan-22 21-Feb-22	-353 -353	+
RW4		51	27-Feb-23	02-May-23	27-Nov-21	28-Jan-22	-365	
RW-400	RW4 - Design for Temporary Works Preparation & Submission	30	27-Feb-23	01-Apr-23	27-Nov-21	04-Jan-22	-365	
RW-410	RW4 - Design for Temporary Works PM Review	21	03-Apr-23	02-May-23	05-Jan-22	28-Jan-22	-365	
RW5		86	02-Feb-23	18-May-23	29-Nov-21	17-Mar-22	-343	
RW-500	RW5 - Design for Temporary Works Preparation & Submission	30	02-Feb-23	08-Mar-23	29-Nov-21	05-Jan-22	-343	
RW-510	RW5- Design for Temporary Works PM Review	21	09-Mar-23	01-Apr-23	06-Jan-22	29-Jan-22	-343	
RW-520 RW-530	RW5 - Design for Temporary Works Resubmission RW5 - Design for Temporary Works Approval	14	03-Apr-23 24-Apr-23	22-Apr-23 18-May-23	31-Jan-22 22-Feb-22	21-Feb-22 17-Mar-22	-343 -343	
		382	17-Jan-22 A	09-May-23	18-Dec-21	13-May-22	-3+0	
brication an	la Delivery							¦
ite Office		382	17-Jan-22 A	09-May-23	18-Dec-21	13-May-22	-292	
	eption & Atrium Module	355	17-Jan-22 A	01-Apr-23	02-Mar-22	02-Apr-22	-294	
SO-1020 SO-1050	Innohub - Material Procurement and Production Steel Structure Innohub - Material Procurement Facade (Window and Cladding)	30	17-Jan-22 A 12-Feb-22 A	13-Mar-23 25-Mar-23	02-Mar-22 04-Mar-22	14-Mar-22 29-Mar-22	-294 -292	+
SO-1000	Innohub - Material Procurement MEP	30	12-Feb-22 A	25-Mar-23	09-Mar-22	02-Apr-22	-288	
SO-1070	Innohub - Material Procurement Interior Fittings & Flooring	30	12-Feb-22 A	25-Mar-23	09-Mar-22	02-Apr-22	-288	
SO-1400	Innohub - Exterior Staircase Shipment	10	22-Mar-23	01-Apr-23	15-Mar-22	25-Mar-22	-301	
PM Site Office		55	01-Mar-23	09-May-23	18-Dec-21	13-May-22	-292	
SO-1025	PM Office - Preparation Embed Procurement	25	01-Mar-23	29-Mar-23	18-Dec-21	19-Jan-22	-349	
SO-1030	PM Office - Material Procurement and Production Steel Structure	46	11-Mar-23	09-May-23	04-Mar-22	30-Apr-22	-301	
SO-1080 SO-1090	PM Office - Material Procurement Facade (Window and Cladding) PM Office - Material Procurement MEP	38	11-Mar-23 11-Mar-23	28-Apr-23 28-Apr-23	24-Mar-22 24-Mar-22	13-May-22 13-May-22	-284 -284	
SO-1090 SO-1100	PM Office - Material Procurement Interior Fittings & Flooring	38	11-Mar-23	28-Apr-23 28-Apr-23	24-Mar-22 24-Mar-22	13-May-22 13-May-22	-284	· · · · · · · · · · · · · · · · · · ·
SO-1110	PM Office - Material Procurement Toilet	38	11-Mar-23	28-Apr-23	24-Mar-22	13-May-22	-284	
SO-1410	PM Office - Exterior Staircase Shipment	10	22-Mar-23	01-Apr-23	12-Apr-22	26-Apr-22	-278	
te Office and	d Innohub	143	17-Feb-22 A	23-Mar-23	22-Feb-22	31-Dec-22	-32	
	e Office (Area Occupied)	316	17-Feb-22 A	13-Mar-23	22-Feb-22	05-Mar-22	-301	
SO-1450	Contractor Site Office - Steel Structure Assembly	7	17-Feb-22 A	03-Mar-23	22-Feb-22	24-Feb-22	-301	
SO-1460	Contractor Site Office - Installation	8	04-Mar-23	13-Mar-23*	25-Feb-22	05-Mar-22	-301	
terim Site Of	fice for Contractor's Staff and Part of RSS Team	65	06-Oct-22 A	23-Mar-23	14-Oct-22	31-Dec-22	-32	
SO-1485	Issued PMI No. 083 - PM Review and Reply	14	06-Oct-22 A	14-Jan-23	14-Oct-22	27-Oct-22	-79	
SO-1486	Issue PMN for PMI083	0		16-Jan-23		27-Oct-22	-65	
30-1495	Interim Site Office Construction	54	16-Jan-23	23-Mar-23*	28-Oct-22	31-Dec-22	-65	
y Date KD	1 - Interim Watermain	109	30-Dec-22A	18-May-23	30-Nov-21	14-Apr-22	-320	
01 - Subletti	ng	31	30-Dec-22A	10-Feb-23	30-Nov-21	06-Jan-22	-320	
01-0909	Issue PMN for PMI071	0		30-Dec-22A		30-Nov-21		
D1-1002	Interim Watermain - Subletting of Watermain Subcontractor (Twin DN300)	31	31-Dec-22A	10-Feb-23	30-Nov-21	06-Jan-22	-320	
01 - Submis	sions	54	17-Jan-23	24-Mar-23	14-Dec-21	23-Feb-22	-320	
D1-1005	Interim Watermain - Shop Drawings Preparation & Submission	6	11-Feb-23	17-Feb-23	28-Jan-22	09-Feb-22	-302	
D1-1010	Interim Watermain - Shop Drawings PM Review & Approval	12	18-Feb-23	03-Mar-23	10-Feb-22	23-Feb-22	-302	
D1-1015	Interim Watermain - Material Submission	6	17-Jan-23	27-Jan-23	14-Dec-21	20-Dec-21	-320	
11 1016	Interim Watermain - Material PM Review & Approval	12	28-Jan-23	10-Feb-23	21-Dec-21	06-Jan-22	-320	
01-1016 01-1020	Interim Watermain - Procurement and Delivery of Materials	36	11-Feb-23	24-Mar-23	07-Jan-22	23-Feb-22	-320	

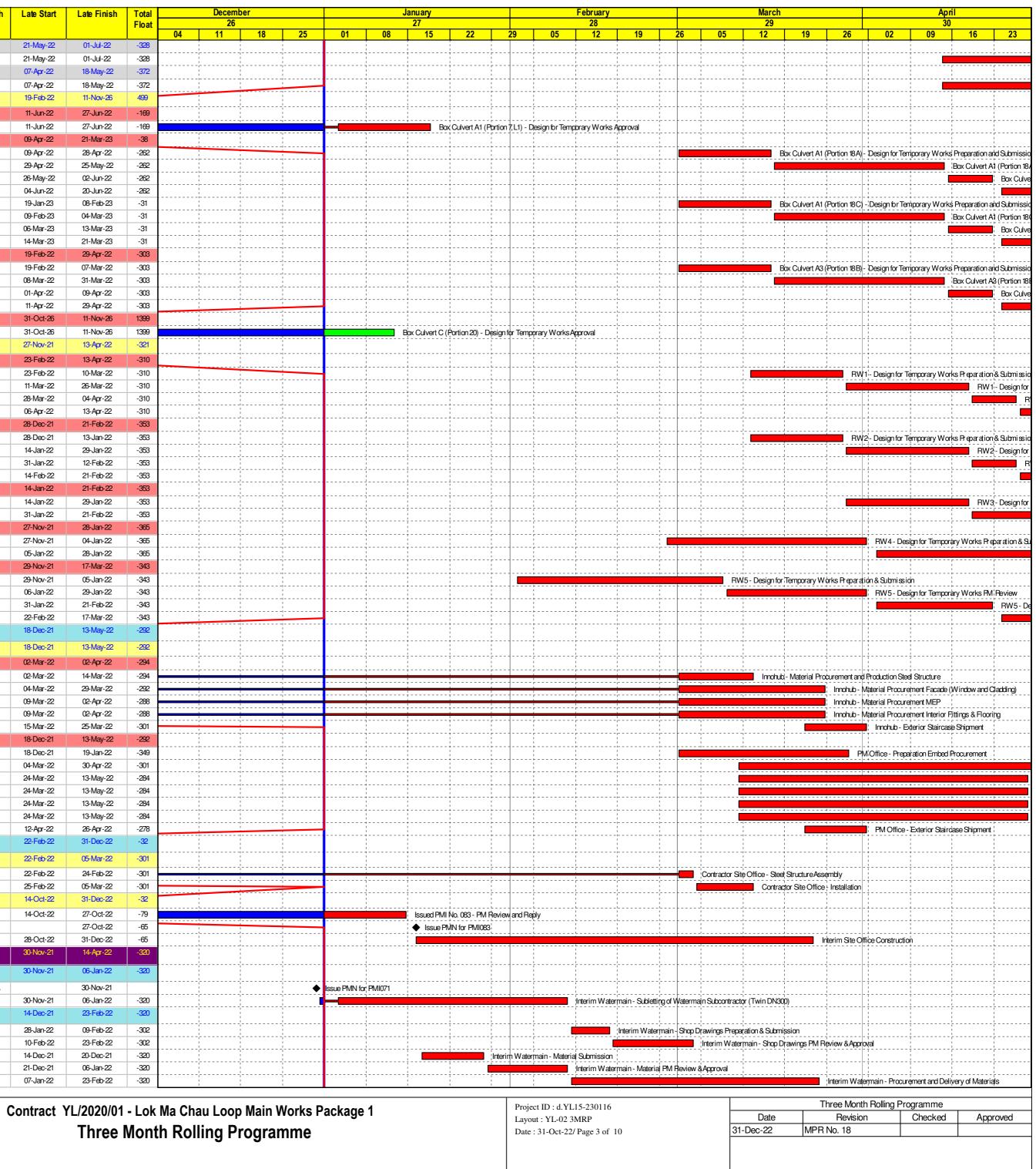


Actual Work

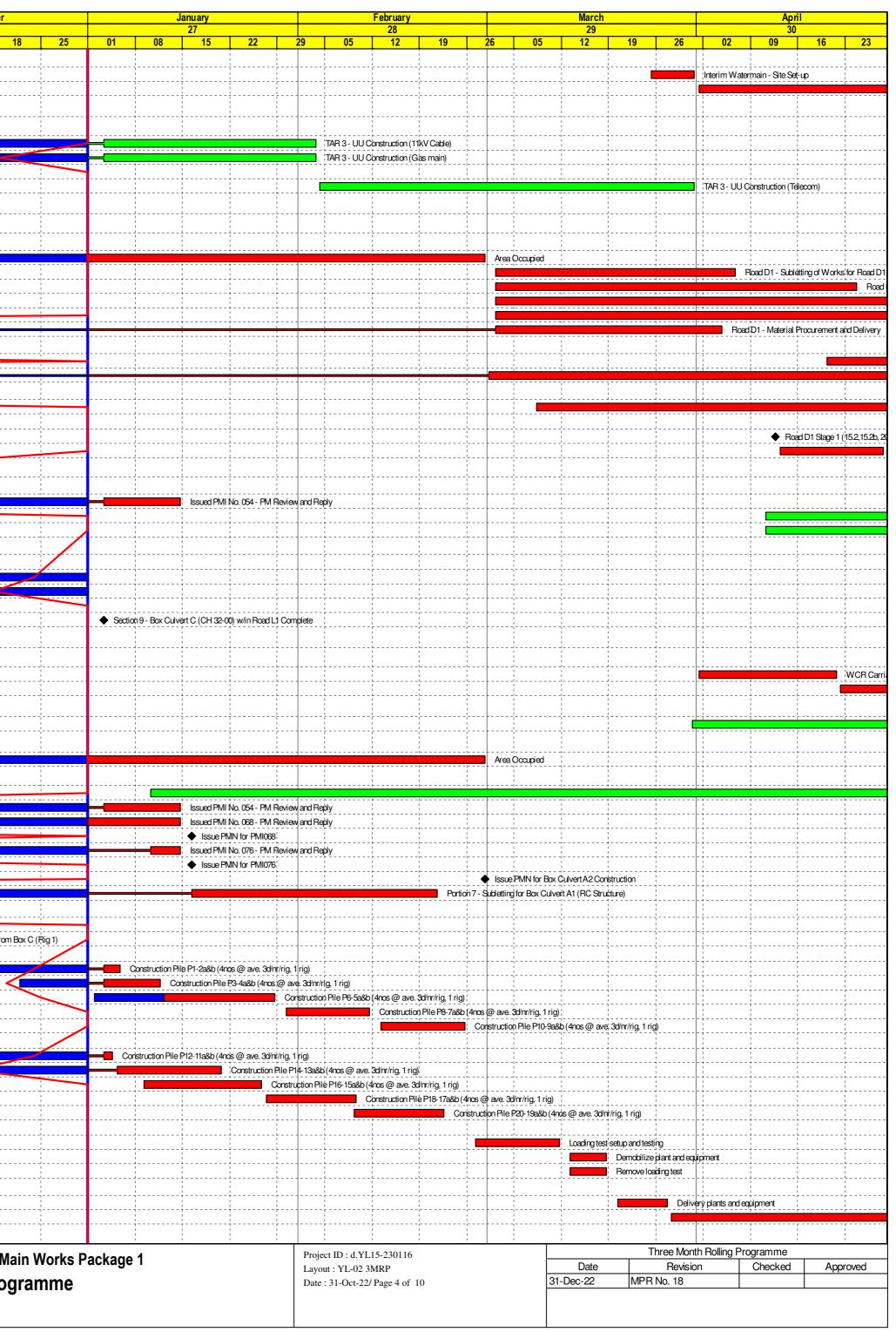
Remaining Work

Critical Remaining Work ♦♦ Milestone

Three Month Rolling Programme



ity ID	Activity Name		Orig Dur	Early Start	Early Finish	Late Start	Late Finish	Total Float	04	Decembe 26	
KD1 - Constru	uction		42	25-Mar-23	18-May-23	24-Feb-22	14-Apr-22	-320	04	11	18
KD1-1025 KD1-1030	Interim Watermain - Site Set-up Interim Watermain - Excavation and Temporary Works		6	25-Mar-23	31-Mar-23 18-May-23	24-Feb-22 03-Mar-22	02-Mar-22	-320			
ey Date KD			346	01-Apr-23 05-Dec-22A	05-Feb-24	24-Feb-22	14-Apr-22 15-Jul-23	-320 -169			
D2 - Constru			346	05-Dec-22A	05-Feb-24	24-Feb-22	15-Jul-23	-169			
D2-1060	TAR 3 - UU Construction (11kV Cable)		46	05-Dec-22A	03-Feb-23	19-Apr-23	17-May-23	83			
(D2-1070	TAR 3 - UU Construction (Gas main)	0	24	15-Dec-22A	03-Feb-23 05-Feb-24	19-Apr-23 24-Feb-22	17-May-23	83			
02-1080 02-1090	TAR 3 - UU Construction (Twin DN300 Water main, as KD TAR 3 - UU Construction (Telecom))	258 48	25-Mar-23 04-Feb-23	31-Mar-23	24-Fe0-22 18-May-23	06-Jan-23 15-Jul-23	-320 83			
y Date KD	03 - Road D1 and L1		265	25-Jan-22 A	14-Jan-24	08-Dec-21	20-Feb-24	15			
	D1 Construction		265	25-Jan-22 A	14-Jan-24	01-Feb-22	07-Jul-23	-74			
D3 - D1 - Suł	bmissions		162	21-Feb-22 A	16-May-23	01-Feb-22	17-Jun-22	-122			
<pre>(D3-0900</pre>	Area Occupied		372	22-Feb-22 A	28-Feb-23	01-Feb-22	31-Mar-22	-334			
D3-1000 D3-1005	Road D1 - Subletting of Works for Road D1 Road D1 - Design & MS Site Formation Prep & Submit(7d),	PM Review(21d), Resubmission(6d), Approval(14d)	30 42	02-Mar-23 02-Mar-23	06-Apr-23 24-Apr-23	01-Apr-22 01-Apr-22	12-May-22 26-May-22	-269 -269			
03-1010	Road D1 - Design & MS Drainage Prep & Submit(15d), PM	Review(21d), Resubmission(10d), Approval(14d)	60	02-Mar-23	16-May-23	01-Apr-22	17-Jun-22	-269	· · · · · · · · · · · · · · · · · · ·		
D3-1015 D3-1035	Road D1 - Design & MS Watermains Prep & Submit(15d), Road D1 - Material Procurement and Delivery	PM Review(21d), Resubmission(10d), Approval(14d)	60 30	02-Mar-23 21-Feb-22 A	16-May-23 04-Apr-23	01-Apr-22 14-May-22	17-Jun-22 17-Jun-22	-269 -238			
	M Works at Portion 7 (Area Occupied - Pa	rtial)	265	25-Jan-22 A	14-Jan-24	26-Feb-22	07-Jul-23	-230			
7-1425	Portion 7 - Surcharging Works		270	20-Apr-23	14-Jan-24	11-Oct-22	07-Jul-23	-191			
-1435	Portion 7 - DCM Works		274	25-Jan-22 A	08-Jan-24	26-Feb-22	05-Jan-23	-297			
)3 - D1 - Cor)3-1455	nstruction (Area Occupied - Partial) Portion 7 - Complete Box Culvert A1		128	08-Mar-23 08-Mar-23	12-Aug-23	31-May-22 15-Jun-22	15-Nov-22 15-Nov-22	-217 -217			
	1 Stage 1 (Road Next to Portion 15.2 and 15.2	2b)	120	12-Apr-23	28-Apr-23	31-May-22	17-Jun-22	-217			
(D3-2684	Road D1 Stage 1 (15.2, 15.2b, 200,m) - DCM Complete (15.2	•	0		12-Apr-23		31-May-22	-255	· · · · · · · · · · · · · · · · · · ·		
D3-2685	Road D1 Stage 1 (15.2, 15.2b, 200,m) - Site Formation		14 374	13-Apr-23 01-Aug-22 A	28-Apr-23	01-Jun-22 08-Dec-21	17-Jun-22 20-Feb-24	-255 80			
03 - ROAD 1 03 - L1 - Sut	L1 Construction		242	01-Aug-22 A 08-Aug-22 A	03-Jun-23	08-Dec-21	28-Jun-23	20			
D3-0102	Issued PMI No. 054 - PM Review and Reply		30	08-Aug-22 A	14-Jan-23	08-Dec-21	20-Dec-21	-313	i 		
03-1190	Road L1 - Method Statement Road Paving & Marking Prep &	k Submit, PM Review , Resubmission , Approval	45	11-Apr-23	03-Jun-23	05-May-23	28-Jun-23	20			
D3-1195	Road L1 - Method Statement Street Furniture Prep & Submit	t, PM Review , Resubmission , Approval	45	11-Apr-23 01-Aug-22 A	03-Jun-23 10-Nov-23	05-May-23 06-Jan-22	28-Jun-23 20-Feb-24	20 80		·	
D3 - L1 - Cor D3 - Boad L1	I Stage 1 (Portion 18C, Next to Portion 17B H	ammerhead) 260m	311	01-Aug-22 A	10-Nov-23	06-Jan-22	20-Feb-24	80			
03-5305	Portion 18C Road L1 (CH1170-1430) - EA Zone Haul Road		92	01-Aug-22 A	24-Feb-23	06-Jan-22	16-Dec-22	-53			
D3-5315	Portion 18C Road L1 (CH1170-1430) - CLP Substation, Build	0 0	201	22-Nov-22A	25-Aug-23	06-Jan-22	31-Jul-23	-22			
√D3-5325 √D3-5345	Portion 18C Road L1 (CH1170-1430) - Building 8 & Building Section 9 - Box Culvert C (CH 32-00) w/in Road L1 Comple		223	11-Feb-23	10-Nov-23 03-Jan-23	07-Feb-22	20-Feb-24 27-Mar-23	80 68			,
	04 - WCR Carriageway + 1 Footp		35	01-Apr-23	17-May-23	09-Dec-21	21-Jan-22	-384			
I - Submis			35	01-Apr-23	17-May-23	09-Dec-21	21-Jan-22	-384			
4-1000	WCR Carriageway - MS Preparation and Submission		14	01-Apr-23	21-Apr-23	09-Dec-21	24-Dec-21	-384			
- 1005	WCR Carriageway - MS PM Review		21	22-Apr-23	17-May-23	28-Dec-21	21-Jan-22	-384		·	
Date KD	05 - Reedbeds Transplanting (Are	ea Occupied)	240	31-Mar-23	20-Jan-24	15-May-23	04-Mar-24	33		·	
	Readbeds - Preparation and Procurement Works 06 - Box Culverts A2 and A1 in Pro-	ortion 7	240 225	31-Mar-23 17-Dec-21 A	20-Jan-24 27-Aug-23	15-May-23 08-Dec-21	04-Mar-24 12-Nov-26	33 457			
0400	Area Occupied		372	22-Feb-22 A	28-Feb-23	25-Dec-21	21-Feb-22	-372			
06 - Box Cu	lvert A1 (Portion 7, CH 0-75) 75m (CSI	D Scheme)	190	17-Dec-21 A	29-May-23	08-Dec-21	12-Nov-26	492			
D6-5105	Interface Portion 7 - CLP ESS Excavation and ELS Installation	on (Depth 4m from Existing Level)	110	10-Jan-23	29-May-23	17-Oct-23	01-Mar-24	226			
D6-5245 D6-5248	Issued PMI No. 054 - PM Review and Reply Issued PMI No. 068 - PM Review and Reply		30	08-Aug-22 A 27-Jul-22 A	14-Jan-23 14-Jan-23	08-Dec-21 10-May-22	20-Dec-21 23-May-22	-313 -236			
(D6-5248A	Issue PMN for PMI068		0		16-Jan-23	io may 😐	24-May-22	-194			
D6-5252	Issued PMI No. 076 - PM Review and Reply		14	08-Sep-22 A	14-Jan-23	20-May-22	24-May-22	-235			
D6-5254 D6-5256	Issue PMN for PMI076 Issue PMN for Box Culvert A2 Construction		0		16-Jan-23 28-Feb-23		24-May-22 22-Feb-22	-194 -300	·····		
6-5580	Portion 7 - Subletting for Box Culvert A1 (RC Structure)		28	17-Dec-21 A	21-Feb-23	25-May-22	27-Jun-22	-194			
	1 (CH 0-75) Foundation (CSD)		82	06-Dec-22A	18-Mar-23	11-Apr-22	12-Nov-26	1079			
KD6-5310 KD6-5584	Delivery Plants and Equipment (Rig 3) Transfer of Rig from Box C (Rig 1)		5	06-Dec-22A	10-Dec-22A 09-Dec-22A	14-Apr-22	14-Apr-22 12-Nov-26	<u> </u>		nsfer of Rig fr	rom Pov
	1 (CH 0-75) Workfront 1		61	13-Dec-22A	25-Feb-23	11-Apr-22	06-Jun-22	-216		Sig of night	
KD6-5320	Construction Pile P1-2a&b (4nos @ ave. 3d/nr/rig, 1 rig)		13	13-Dec-22A	05-Jan-23	20-Apr-22	22-Apr-22	-211			
KD6-5340 KD6-5348	Construction Pile P3-4a&b (4nos @ ave. 3d/nr/rig, 1 rig) Construction Pile P6-5a&b (4nos @ ave. 3d/nr/rig, 1 rig)		12	22-Dec-22A 02-Jan-23A	11-Jan-23 28-Jan-23	11-Apr-22 23-Apr-22	22-Apr-22 06-May-22	-216 -216			<
KD6-5350	Construction Pile P8-7a&b (4nos @ ave. 30/m/rg, 11g)		12	30-Jan-23	11-Feb-23	07-May-22	21-May-22	-216	·····		
KD6-5354	Construction Pile P10-9a&b (4nos @ ave. 3d/nr/rig, 1 rig)		12	13-Feb-23	25-Feb-23	23-May-22	06-Jun-22	-216	· · · · · · · · · · · · · · · · · · ·		
Box Culvert A	1 (CH 0-75) Workfront 2 Construction Pile P12-11a&b (4nos @ ave. 3d/nr/rig, 1 rig)		58	09-Dec-22A 09-Dec-22A	22-Feb-23 04-Jan-23	14-Apr-22 14-Apr-22	06-Jun-22 19-Apr-22	-213 -213	·····		
KD6-5358	Construction Pile Pi2- Trade (4hos @ ave. 3chri/rig, 1rig) Construction Pile Pi4- 13a&b (4nos @ ave. 3d/nr/rig, 1 rig)		12	15-Dec-22A	20-Jan-23	23-Apr-22	19-Apr-22 11-May-22	-213			<u></u>
KD6-5370	Construction Pile P16-15a&b (4nos @ ave. 3d/nr/rig, 1 rig)		12	09-Jan-23	26-Jan-23	23-Apr-22	07-May-22	-213	·		
KD6-5380 KD6-5395	Construction Pile P18-17a&b (4nos @ ave. 3d/nr/rig, 1 rig) Construction Pile P20-19a&b (4nos @ ave. 3d/nr/rig, 1 rig)		12	27-Jan-23 09-Feb-23	09-Feb-23 22-Feb-23	10-May-22 23-May-22	23-May-22 06-Jun-22	-213 -213			
	1 (CH 0-75) Loading Test		18	27-Feb-23	18-Mar-23	07-Jun-22	27-Jun-22	-216			
KD6-5440	Loading test setup and testing		12	27-Feb-23	11-Mar-23	07-Jun-22	20-Jun-22	-216			
KD6-5560 KD6-5570	Demobilize plant and equipment Remove loading test		6	13-Mar-23 13-Mar-23	18-Mar-23 18-Mar-23	21-Jun-22 21-Jun-22	27-Jun-22 27-Jun-22	-216 -216			
	1 (CH 0-75) ELS Installation and Structure	Construction	42	20-Mar-23	12-May-23	28-Jun-22	16-Aug-22	-216			
<d6-5450< td=""><td>Delivery plants and equipment</td><td></td><td>7</td><td>20-Mar-23</td><td>27-Mar-23</td><td>28-Jun-22</td><td>06-Jul-22</td><td>-216</td><td></td><td></td><td></td></d6-5450<>	Delivery plants and equipment		7	20-Mar-23	27-Mar-23	28-Jun-22	06-Jul-22	-216			
KD6-5460	Sheet pile construction	P Doution 7	35 208	28-Mar-23 07-Feb-22 A	12-May-23 27-Aug-23	07-Jul-22 23-Feb-22	16-Aug-22 21-Aug-22	-216 -140			
ю - Box Cu	Ivert A2 (Including Border Patrol Road	•	200	07-FW-ZZA							
TAX	Paul Y	Actual Level of Effort				Contract	YL/2020/01	- Lok	Ma Chau	Loop	Main
TRE		Actual Work	I								
		Actual WorkRemaining Work					Three		h Rollin	ng Pro	ogra
中国银							Three		h Rollin	ng Pro	ogra

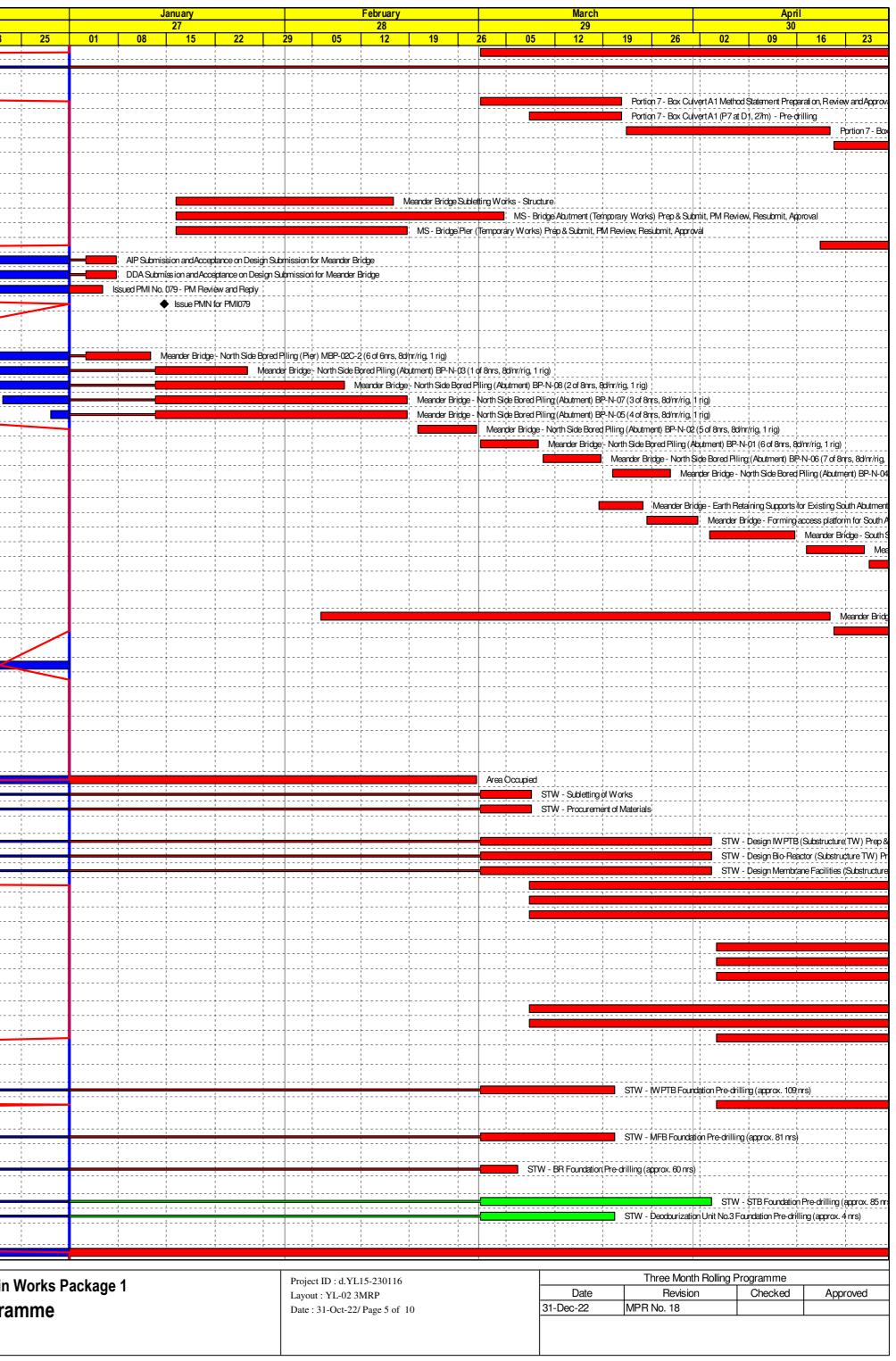


	Activity Name	Orig Dur	Early Start	Early Finish	Late Start	Late Finish	Total Float	Decer 20 04 11
KD6-0500	Portion 7 - Appli cation to Border Police for Boundary Patrol RoadTTA	180	01-Mar-23	27-Aug-23	23-Feb-22	21-Aug-22	-371	
KD6-1005	Portion 7 - Box Culvert A2 Method Statement Submission and Approval	18	07-Feb-22 A	28-Jun-23	17-Jun-22	22-Jun-22	-300	
(D6 - Box Cu	Ilvert A1 (Portion 7, Road D1, CH 247-274) 27m (Area Occupied)	52	01-Mar-23	05-May-23	22-Feb-22	01-Aug-22	-223	
KD6-1070	Portion 7 - Box Culvert A1 Method Statement Preparation, Review and Approval	18	01-Mar-23	21-Mar-23	22-Feb-22	14-Mar-22	-301	
<d6-1075< td=""><td>Portion 7 - Box Culvert A1 (P7 at D1, 27m) - Pre-drilling</td><td>12</td><td>08-Mar-23</td><td>21-Mar-23</td><td>01-Mar-22</td><td>14-Mar-22</td><td>-301</td><td></td></d6-1075<>	Portion 7 - Box Culvert A1 (P7 at D1, 27m) - Pre-drilling	12	08-Mar-23	21-Mar-23	01-Mar-22	14-Mar-22	-301	
<d6-1080< td=""><td>Portion 7 - Box Culvert A1 (P7 at D1, 27m) - Pre-bored H-pile (29 nrs @ ave 3d/nr/rig, 4 rigs)</td><td>22</td><td>22-Mar-23</td><td>20-Apr-23</td><td>26-Apr-22</td><td>23-May-22</td><td>-269</td><td></td></d6-1080<>	Portion 7 - Box Culvert A1 (P7 at D1, 27m) - Pre-bored H-pile (29 nrs @ ave 3d/nr/rig, 4 rigs)	22	22-Mar-23	20-Apr-23	26-Apr-22	23-May-22	-269	
KD6-1085	Portion 7 - Box Culvert A1 (P7 at D1, 27m) - Piling LoadTest	12	21-Apr-23	05-May-23	19-Jul-22	01-Aug-22	-223	
ey Date KD	07 - Meander Bridge and CLP Transformer Delivery	194	15-Jan-22 A	04-Jul-23	24-Feb-21	14-Jan-23	-66	
D7 - Submis	ssions	192	15-Jan-22 A	30-Jun-23	27-May-22	14-Jan-23	-65	
<d7-1015< td=""><td>Meander Bridge Subletting Works - Structure</td><td>24</td><td>16-Jan-23</td><td>16-Feb-23</td><td>04-Jun-22</td><td>02-Jul-22</td><td>-186</td><td></td></d7-1015<>	Meander Bridge Subletting Works - Structure	24	16-Jan-23	16-Feb-23	04-Jun-22	02-Jul-22	-186	
KD7-1175	MS - Bridge Abutment (Temporary Works) Prep & Submit, PM Review, Resubmit, Approval	38	16-Jan-23	04-Mar-23	12-Aug-22	26-Sep-22	-128	 ! !
CD7-1180	MS - Bridge Pier (Temporary Works) Prep & Submit, PM Review, Resubmit, Approval	26	16-Jan-23	18-Feb-23	01-Jun-22	02-Jul-22	-188	
KD7-1185	MS - Bridge Superstructure (Temporary Works) Prep & Submit, PM Review, Resubmit, Approval	60	19-Apr-23	30-Jun-23	03-Nov-22	14-Jan-23	-132	
KD7-2025	AIP Submission and Acceptance on Design Submission for Meander Bridge	51	15-Jan-22 A	07-Jan-23	18-Aug-22	23-Aug-22	-112	
KD7-2035	DDA Submission and Acceptance on Design Submission for Meander Bridge	33	29-Jan-22 A	07-Jan-23	18-Aug-22	23-Aug-22	-112	
KD7-2075	Issued PMI No. 079 - PM Review and Reply	14	23-Sep-22 A	05-Jan-23	27-May-22	31-May-22	-219	
KD7-2076	Issue PMIN for PMI079	0		14-Jan-23		31-May-22	-188	
D7 - Substru	ucture	135	16-Nov-22A	05-May-23	28-May-22	21-Sep-22	-180	
Meander Bridg	lge North Side	107	16-Nov-22A	28-Mar-23	28-May-22	23-Aug-22	-176	
KD7-2550	Meander Bridge - North Side Bored Pilling (Pier) MBP-02C-2 (6 of 6nrs, 8d/nr/rig, 1 rig)	8	16-Nov-22A	12-Jan-23	28-May-22	08-Jun-22	-180	
KD7-2560	Meander Bridge - North Side Bored Piling (Abutment) BP-N-03 (1 of 8nrs, 8d/nr/rig, 1 rig)	8	19-Dec-22A	26-Jan-23	09-Jun-22	17-Jun-22	-180	>>
KD7-2570	Meander Bridge - North Side Bored Piling (Abutment) BP-N-08 (2 of 8nrs, 8d/nr/rig, 1 rig)	8	20-Dec-22A	09-Feb-23	09-Jun-22	02-Jul-22	-180	
KD7-2580	Meander Bridge - North Side Bored Piling (Abutment) BP-N-07 (3 of 8nrs, 8d/nr/rig, 1 rig)	8	22-Dec-22A	18-Feb-23	14-Jun-22	16-Jul-22	-176	
KD7-2590	Meander Bridge - North Side Bored Piling (Abutment) BP-N-05 (4 of 8nrs, 8d/nr/rig, 1 rig)	8	29-Dec-22A	18-Feb-23	14-Jun-22	16-Jul-22	-176	
KD7-2600	Meander Bridge - North Side Bored Piling (Abutment) BP-N-02 (5 of 8ms, 8d/mr/rig, 1 rig)	8	20-Feb-23	28-Feb-23	18-Jul-22	26-Jul-22	-176	
KD7-2610	Meander Bridge - North Side Bored Piling (Abutment) BP-N-01 (6 of 8nrs, 8d/nr/rig, 1 rig)	8	01-Mar-23	09-Mar-23	27-Jul-22	04-Aug-22	-176	·····
KD7-2620 KD7-2630	Meander Bridge - North Side Bored Piling (Abutment) BP-N-06 (7 of 8nrs, 8d/nr/rig, 1 rig) Meander Bridge - North Side Bored Piling (Abutment) BP-N-04 (8 of 8nrs, 8d/nr/rig, 1 rig)	8	10-Mar-23 20-Mar-23	18-Mar-23 28-Mar-23	05-Aug-22	13-Aug-22	-176	
		37	20-1viar-23 18-Mar-23		15-Aug-22 09-Aug-22	23-Aug-22 21-Sep-22	-176 -180	
	lge South Side			05-May-23				
KD7-2070 KD7-2090	Meander Bridge - Earth Retaining Supports for Existing South Abutment EVA Meander Bridge - Forming access platform for South Abutment	6	18-Mar-23 25-Mar-23	24-Mar-23 01-Apr-23	09-Aug-22 16-Aug-22	15-Aug-22 23-Aug-22	-180 -180	
KD7-2090	Meander Bridge - South Side Bored Piling (Abutment) BP-N-01 (1 of 8nrs, 8d/nr/rig, 1 rig)	8	03-Apr-23	15-Apr-23	24-Aug-22	01-Sep-22	-180	· · · · · · · · · · · · · · · · · · ·
KD7-2650	Meander Bridge - South Side Bored Piling (Abutment) BP-N-02 (2 of 8nrs, 8d/nr/rig, 1 rig)	8	17-Apr-23	25-Apr-23	02-Sep-22	10-Sep-22	-180	
KD7-2660	Meander Bridge - South Side Bored Piling (Abutment) BP-N-03 (3 of 8nrs, 8d/nr/rig, 1 rig)	8	26-Apr-23	05-May-23	13-Sep-22	21-Sep-22	-180	
	nd Abutment	120	06-Feb-23	04-Jul-23	20-Apr-22	10-Sep-22	-236	
MB North Side		120	06-Feb-23	04-Jul-23	20-Apr-22	10-Sep-22	-236	·
KD7-2250	Meander Bridge - ELS for North Pier Cap	60	06-Feb-23	20-Apr-23	20-Apr-22	02-Jul-22	-236	
KD7-2260	Meander Bridge - RC for North Piers' Caps and Piers	60	21-Apr-23	04-Jul-23	04-Jul-22	10-Sep-22	-236	
D7 - DCM		197	27-Oct-22 A	29-Jun-23	24-Feb-21	30-Nov-22	-167	. <u></u>
(D7-2440	DCM4 Cluster Installation (202 nrs, 4rrs/d/rig, 1 rig) (WCR, Section 6)	50	27-Oct-22 A	07-Jan-23	28-Oct-22	30-Nov-22	-30	
(D7-2445	DCM7 Cluster Installation (91nrs, 4nrs/d/rig, 1 rig) (WCR, Section 6)	17	13-Jan-23	06-Feb-23	24-Feb-21	15-Mar-21	-557	,
(D7-2450	DCM5 Cluster Installation (48 nrs, 4nrs/d/rig, 1 rig) (WCR, Section 6)	13	28-Jan-23	11-Feb-23	24-Mar-21	10-Apr-21	-543	
<d7-2455 <d7-2780< td=""><td>DCM7 Cluster Installation (10 nrs, 4nrs/d/rig, 1 rig) (WCR, Section 6) DCM7 Cluster Installation (109 nrs, 5nrs/d/rig, 1 rig) (WCR, Section 6)</td><td>30 52</td><td>30-Jan-23 27-Apr-23</td><td>04-Mar-23 29-Jun-23</td><td>08-Mar-21 14-Jan-22</td><td>15-Apr-21 09-Mar-22</td><td>-557 -384</td><td></td></d7-2780<></d7-2455 	DCM7 Cluster Installation (10 nrs, 4nrs/d/rig, 1 rig) (WCR, Section 6) DCM7 Cluster Installation (109 nrs, 5nrs/d/rig, 1 rig) (WCR, Section 6)	30 52	30-Jan-23 27-Apr-23	04-Mar-23 29-Jun-23	08-Mar-21 14-Jan-22	15-Apr-21 09-Mar-22	-557 -384	
		227	05-Nov-21A	29-Jul-23	14-Jai +22	20-Nov-23	-384	
	08 - Sewage Treatment Works (STW) Buildings							
D8 - Submis	ssions	227	05-Nov-21 A	20-Jul-23	14-Dec-21	08-Oct-22	-110	
<d8-0900< td=""><td>AreaOccupied</td><td>372</td><td>22-Feb-22 A</td><td>28-Feb-23</td><td>14-Dec-21</td><td>10-Feb-22</td><td>-383</td><td></td></d8-0900<>	AreaOccupied	372	22-Feb-22 A	28-Feb-23	14-Dec-21	10-Feb-22	-383	
KD8-1005	STW - Subletting of Works	47	30-Dec-21 A	08-Mar-23	29-Jun-22	07-Jul-22	-199	
<d8-1010< td=""><td>STW - Procurement of Materials</td><td>47</td><td>30-Dec-21 A</td><td>08-Mar-23</td><td>29-Jun-22</td><td>07-Jul-22</td><td>-199</td><td></td></d8-1010<>	STW - Procurement of Materials	47	30-Dec-21 A	08-Mar-23	29-Jun-22	07-Jul-22	-199	
KD8 - Design		500	05-Nov-21 A	20-Jul-23	11-Feb-22	08-Oct-22	-229	1
KD8-1015	STW - Design IW PTB (Substructure TW) Prep & Submit, PM Review, Resubmit, Approval	58	05-Nov-21 A	03-Apr-23	15-Jun-22	19-Jul-22	-211	
KD8-1020	STW - Design Bio-Reactor (Substructure TW) Prep & Submit, PM Review, Resubmit, Approval	58	05-Nov-21 A	03-Apr-23	11-Feb-22	16-Mar-22	-310	
KD8-1025	STW - Design Membrane Facilities (Substructure TW) Prep & Submit, PM Review, Resubmit, Approval	58	05-Nov-21 A	03-Apr-23	21-Feb-22	25-Mar-22	-302	
KD8-1030	STW - Design Studge Treatment Blg (Substructure TW) Prep & Submit, PM Review, Resubmit, Approval	58	08-Mar-23	19-May-23	17-Mar-22	30-May-22	-287	
KD8-1035	STW - Design Chem. Storage & FH Pump Room Prep & Submit (45d), PM Review (21d), Resubmit (21d), Approval (21d)	108	08-Mar-23	20-Jul-23	06-Apr-22	17-Aug-22	-271	
KD8-1040	STW - Design DOU No. 3 (Substructure TW) Prep & Submit (45d), PM Review (21d), Resubmit (21d), Approval (21d)	108	08-Mar-23	20-Jul-23	31-May-22	08-Oct-22	-229	
KD8 - Shop Di		58	04-Apr-23	16-Jun-23	17-Mar-22	26-Sep-22	-211	·
KD8-3330	STW - Shop Drawings for IWPTB (Substructure TW) Prep & Submit, PM Review, Resubmit, Approval	58	04-Apr-23	16-Jun-23	20-Jul-22	26-Sep-22	-211	
KD8-3335	STW - Shop Drawings for Bio-Reactor (Substructure TW) Prep & Submit, PM Review, Resubmit, Approval	58	04-Apr-23	16-Jun-23	17-Mar-22	30-May-22	-310	
KD8-3340	STW - Shop Drawings for Membrane Facilities (Substructure TW) Prep & Submit, PM Review, Resubmit, Approval	58 81	04-Apr-23 08-Mar-23	16-Jun-23	26-Mar-22 17-Mar-22	09-Jun-22 26-Sep-22	-302 -211	·
KD8 - Method				16-Jun-23				,
KD8-1330	STW - MS IW PTB (Substructure TW) Prep & Submit, PM Review, Resubmit, Approval	58	08-Mar-23	19-May-23	20-Jul-22	26-Sep-22	-188	·
KD8-1335 KD8-1340	STW - MS Bio-Reactor (Substructure TW) Prep & Submit, PM Review, Resubmit, Approval STW - MS Membrane Facilities (Substructure TW) Prep & Submit, PM Review, Resubmit, Approval	58 58	08-Mar-23 04-Apr-23	19-May-23 16-Jun-23	17-Mar-22 26-Mar-22	30-May-22 09-Jun-22	-287 -302	
			04-Apr-23 06-Dec-21 A	17-Jul-23	20-1Mar-22 29-Jun-22	20-Nov-23	-302	
D8 - Constru								·
	orks and Primary Treatment Building (IWPTB) (Area Occupied)	471	06-Dec-21 A	17-Jul-23	29-Jun-22	26-Oct-22	-211	·
KD8-2014	STW - IW PTB Foundation Pre-drilling (approx. 109 nrs)	55	06-Dec-21 A	20-Mar-23	29-Jun-22	19-Jul-22	-199	
KD8-2015	STW - IW PTB Foundation Socketed H-piles for IW PTB (109 nrs @ 3d/pile/rig, 4 rigs)	82	04-Apr-23	17-Jul-23	20-Jul-22	26-Oct-22	-211	
	ane Facility Building (MFB) (Area Occupied)	42	03-Jan-22 A	20-Mar-23	07-Oct-22	26-Oct-22	-117	
KD8-2004	STW - MFB Foundation Pre-drilling (approx. 81 nrs)	42	03-Jan-22 A	20-Mar-23	07-Oct-22	26-Oct-22	-117	
	actor (BRB) (Area Occupied)	50	22-Dec-21A	06-Mar-23	07-Oct-22	12-Oct-22	-117	
KD8-1195	STW - BR Foundation Pre-drilling (approx. 60 nrs)	50	22-Dec-21 A	06-Mar-23	07-Oct-22	12-Oct-22	-117	
(D8 - Sludge	Treatment Building (STB) (Area Occupied)	60	11-Jan-22 A	03-Apr-23	24-Jun-23	20-Nov-23	187	
elauge	STW - STB Foundation Pre-drilling (approx. 85 nrs)	60	11-Jan-22 A	03-Apr-23	24-Jun-23	28-Jul-23	92	
KD8-2352								
	STW - Decodourization Unit No.3 Foundation Pre-drilling (approx. 4 nrs)	27	10-Feb-22 A	20-Mar-23	01-Nov-23	20-Nov-23	199	
KD8-2352 KD8-2375		27 365	10-Feb-22 A 26-Jul-22 A	20-Mar-23 25-Jul-23	01-Nov-23 06-Apr-22	20-Nov-23 28-Oct-22	199 -270	



- Actual Level of Effort
- Actual Work
- Remaining Work
- Critical Remaining Work ♦♦ Milestone

Contract YL/2020/01 - Lok Ma Chau Loop Main Works Package 1 Three Month Rolling Programme



ID		Orig Dur	Early Start	Early Finish			Float	04 11
ection 2A -	Wetland Compensation Establishment Works at Portion 2A/2B	365	26-Jul-22 A	25-Jul-23	06-Apr-22	28-Oct-22	-270	1
2A-2000	Portion 2A/2B - Establishment Works and Ecological Monitoring (Area 2, Area 9)	365 365	26-Jul-22 A 26-Jul-22 A	25-Jul-23 25-Jul-23	06-Apr-22 06-Apr-22	28-Oct-22 28-Oct-22	-270 -270	
A-2000	Wetland Compensation Establishment Works at Portion 3 Portion 3 - Establishment Works and Ecological Monitoring (Area 9)	365	26-Jul-22 A	25-Jul-23	06-Apr-22	28-Oct-22	-270	
	Voodland Compensation Works at Portion 4	201	14-Nov-22A	23-Jul-23	27-Jul-23	20-Feb-24	172	
	eparation Works	201	14-Nov-22A	22-Jul-23	27-Jul-23	20-Feb-24	172	
4-1020	Portion 4 - Setting out of Site Boundary	33	14-Nov-22A	27-Jan-23	27-Jul-23	16-Aug-23	164	
4-1030	Portion 4 - General Site Clearance	30	19-Dec-22A	30-Jan-23	27-Jul-23	18-Aug-23	164	
4-1040	Portion 4 - Topographic Survey	30	06-Jan-23	14-Feb-23	31-Jul-23	02-Sep-23	164	
4-1050 4-1060	Portion 4 - Existing Vegetation Survey Portion 4 - Submission of Existing Survey Report	30 0	15-Feb-23	21-Mar-23 29-Apr-23	04-Sep-23	10-Oct-23 29-Dec-23	164 200	
4-1070	Portion 4 - Preparation of Woodland Compensation Plan (with Method Statement & Material Submission)	66	22-Mar-23	13-Jun-23	11-Oct-23	29-Dec-23	164	
4-1082	Portion 4 - Preparation of Woodland Compensation Material Submissions	98	22-Mar-23	22-Jul-23	20-Oct-23	20-Feb-24	172	
ection 6 - W	Vestern Connection Road (WCR)	172	13-Jul-22 A	12-Oct-23	05-Feb-21	07-May-24	81	
6 WCR Subm	nission	65	02-Aug-22 A	30-Jan-23	05-Feb-21	10-May-22	-93	
6-1015C	Issued PMI No. 057 - PM Review and Reply	31	02-Aug-22 A	14-Jan-23	24-Feb-21	09-Mar-21	-676	
6-1016B 6-1016C	Issued PMI No. 085 - Quotation Preparation and Submission Issued PMI No. 085 - PM Review and Reply	21 14	14-Sep-22 A 15-Jan-23	14-Jan-23 28-Jan-23	24-Feb-21 10-Mar-21	09-Mar-21 23-Mar-21	-676 -676	
6-1016D	Issue PMN for PMI085	0		28-Jan-23		23-Mar-21	-543	 I I
6-1017B	Issued PMI No. 086 - Quotation Preparation and Submission	21	17-Sep-22 A	14-Jan-23	25-Apr-22	26-Apr-22	-263	
6-1017C 6-1017D	Issued PMI No. 086 - PM Review and Reply Issue PMN for PMI086	14 0	15-Jan-23	28-Jan-23 30-Jan-23	27-Apr-22	10-May-22 10-May-22	-263 -214	
6-1030	Issued PMI No. 111 - Civil Provisions for Exposing Telecommunication and CLP 11k V cable at D CM4 and DCM7 Areas	0		03-Jan-23*		05-Feb-21	-214	
6 WCR Work		172	13-Jul-22 A	12-Oct-23	06-Feb-21	27-Aug-22	-156	 I I I
6 WCR: Preli	iminary and Demolition Works	90	15-Feb-23	06-Jun-23	24-Mar-21	15-Jul-21	-557	 I I I
S6-1092	Portion 6 - Procurement for DN700 Fresh Watermains	90	15-Feb-23	06-Jun-23	24-Mar-21	15-Jul-21	-557	
6 WCR: Pond		95	13-Jul-22 A	18-Mar-23	18-May-21	30-Jul-21	-211	
S6-5045 Pond Filling W	S1A: Liaison with Villagers Vork Front 2	212 49	13-Jul-22 A 18-Aug-22 A	28-Feb-23 18-Mar-23	18-May-21 13-Jul-21	12-Jul-21 30-Jul-21	-482	 I I
S6-5106	S1A: Area 2 - Rond 10 Filling (12,858m3) - Suspended from 28 Sep due to owner objection, Resumed 17 Oct 2022	49	18-Aug-22 A	18-Mar-23	13-Jul-21	30-Jul-21	-291	
6 WCR: UU D		72	01-Mar-23	30-May-23	11-May-22	04-Aug-22	-144	
S6-9037	UU Diversion - CLP 11kV (with Poles)	72	01-Mar-23	30-May-23	11-May-22	04-Aug-22	-144	
S6-9047 S6-9057	UU Diversion - HKT UU Diversion - VTL	72 72	01-Mar-23 01-Mar-23	30-May-23	11-May-22	04-Aug-22	-144	
S6-9057	UU Diversion - Watermains	72	01-Mar-23	30-May-23 30-May-23	11-May-22 11-May-22	04-Aug-22 04-Aug-22	- 144	
S6-9537	UU Diversion - Road Lighting	72	01-Mar-23	30-May-23	11-May-22	04-Aug-22	-144	
6 WCR: DCM		127	18-Nov-22A	12-Oct-23	06-Feb-21	27-Aug-22	-156	
DCM Works - F		120 89	18-Nov-22A 18-Nov-22A	23-Sep-23	06-Feb-21 06-Feb-21	18-Aug-22	-152	
S6-5178	Area 1 - DCM4 Cluster Installation (72, 202 of 202nrs, 4nrs/d/rig, 1rig, R1)	20	01-Dec-22A	11-Mar-23 07-Jan-23	06-Feb-21	06-Nov-21 18-Feb-21	-394	
S6-5186	Area 1 - DCM7 Backfilling (1,100m3)	12	13-Jan-23	31-Jan-23	24-Feb-21	09-Mar-21	-557	
S6-5198	Area 1 - DCM7 Cluster Installation (91nrs, 4nrs/d/rig, 1rig, R2)	23	06-Dec-22A	06-Feb-23	24-Feb-21	15-Mar-21	-557	
S6-5202 S6-5204	Area 1 - Area 1 Post-DCM Coring Area 1 - Area 1 Post-CPT for DCM	78	18-Nov-22A 08-Mar-23	17-Feb-23 11-Mar-23	12-Mar-21 28-Apr-21	27-Apr-21 03-May-21	-534 -549	
S6-9487	Area 1 - TAR1 Road Construction for Diversion	12	07-Feb-23	20-Feb-23	25-Oct-21	06-Nov-21	-377	
Area 1 - DCM	7 (at TAR1, MB Abutment)	30	30-Jan-23	04-Mar-23	08-Mar-21	15-Apr-21	-557	
S6-9497	Area 1 - Demolition of existing road (TAR1)	10	30-Jan-23	09-Feb-23	08-Mar-21	18-Mar-21	-557	
S6-9507 S6-9517	Area 1 - Temporary support for TAR1 Area 1 - Backfilling	10 6	10-Feb-23 22-Feb-23	21-Feb-23 28-Feb-23	19-Mar-21 31-Mar-21	30-Mar-21 10-Apr-21	-557 -557	
S6-9527	Area 1 - DCM7 Cluster Installation (approx. 10nrs, 4nrs/d/rig, 1 rig, Rig 1)	4	01-Mar-23	04-Mar-23	12-Apr-21	15-Apr-21	-557	
Area 3 - DCM	6 & 7 at Pond 12-13	166	06-Mar-23	23-Sep-23	16-Apr-21	18-Aug-22	-230	
S6-7531	Area 3 - Pre-CPT for DCM	4	17-Mar-23	21-Mar-23	28-Apr-21	03-May-21	-366	
S6-7532 S6-7533	Area 3 - Set up the DCM Rig 1 and Mixer Plant Area 3 - TreeTransplanting (near Pond 13)	14	06-Mar-23 06-Mar-23	21-Mar-23 21-Mar-23	16-Apr-21 16-Apr-21	03-May-21 03-May-21	-366 -366	
S6-7534	Area 3 - DCM6 & 7 Pond 13 (336nrs, 4nr/d/rig, 1rig, R1)	84	22-Mar-23	06-Jul-23	04-May-21	12-Aug-21	-366	
S6-8957	Area 3 - Post-DCM Coring	131	20-Apr-23	23-Sep-23	10-Mar-22	18-Aug-22	-230	
DCM Works - F		73 29	05-Jan-23 05-Jan-23	11-Jul-23 11-Feb-23	05-Mar-21 05-Mar-21	02-Jul-22	-139 -543	
	Area 1 - Set up the DCM Rig 2 and Mixer Plant	16	05-Jan-23	27-Jan-23	05-Mar-21	10-Apr-21 23-Mar-21	-542	
Area 1 - DCM	Area 1 - DCM5 Cluster Installation (48nrs, 4nrs/d/rig, 1rig, R2) Part 1	12	30-Jan-23	11-Feb-23	24-Mar-21	10-Apr-21	-543	
S6-5174 S6-5180	······································	52	01-Mar-23	11-Jul-23	27-Apr-21	02-Jul-22	-139	
S6-5174 S6-5180 Area 3 - DCM	6 Pond 9 & 11		13-Mar-23	16-Mar-23	10-May-21	13-May-21	-353 -353	
S6-5174 S6-5180 Area 3 - DCM S6-7610	6 Pond 9 & 11 Area 3 - Pre-CPT for DCM	4		10 Mar 00				
S6-5174 S6-5180 Area 3 - DCM	6 Pond 9 & 11	4 14 76	01-Mar-23 17-Mar-23	16-Mar-23 20-Jun-23	27-Apr-21 14-May-21	13-May-21 13-Aug-21	-544	· · · · · · · · · · · · · · · · · · ·
S6-5174 S6-5180 Area 3 - DCM S6-7610 S6-7612	6 Pond 9 & 11 Area 3 - Pre-CPT for DCM Area 3 - Set up the DCM Rig 2 and Mixer Plant	14	01-Mar-23		· ·			
S6-5174 S6-5180 Area 3 - DCM S6-7610 S6-7612 S6-7614 S6-7616 DCM Works - F	6 Pond 9 & 11 Area 3 - Pre-CPT for DCM Area 3 - Set up the DCM Rig 2 and Mixer Plant Area 3 - DCM6 Pond 9 & Pond 11 (303nrs, 4nr/d/rig, 1 rig, R2) Area 3 - Post-DCM Coring Rig 3	14 76 71 184	01-Mar-23 17-Mar-23 15-Apr-23 01-Mar-23	20-Jun-23 11-Jul-23 12-Oct-23	14-May-21 02-Apr-22 17-Jul-21	13-Aug-21 02-Jul-22 27-Aug-22	-544 -206 -236	
S6-5174 S6-5180 Area 3 - DCM S6-7610 S6-7612 S6-7614 S6-7616 DCM Works - F Area 2 - DCM	6 Pond 9 & 11 Area 3 - Pre-CPT for DCM Area 3 - Set up the DCM Rig 2 and Mixer Plant Area 3 - DCM6 Pond 9 & Pond 11 (303nrs, 4mr/d/rig, 1 rig, R2) Area 3 - Post-DCM Coring Rig 3 at Pond 5,6,7 & 10	14 76 71 184 184	01-Mar-23 17-Mar-23 15-Apr-23 01-Mar-23 01-Mar-23	20-Jun-23 11-Jul-23 12-Oct-23 12-Oct-23	14-May-21 02-Apr-22 17-Jul-21 17-Jul-21	13-Aug-21 02-Jul-22 27-Aug-22 27-Aug-22	-544 -206 -236 -236	
S6-5174 S6-5180 Area 3 - DCM S6-7610 S6-7612 S6-7614 S6-7616 DCM Works - F Area 2 - DCM S6-7562	6 Pond 9 & 11 Area 3 - Pre-CPT for DCM Area 3 - Set up the DCM Rig 2 and Mixer Plant Area 3 - DCM6 Pond 9 & Pond 11 (303nrs, 4mr/d/rig, 1 rig, R2) Area 3 - Post-DCM Coring Rig 3 I at Pond 5,6,7 & 10 Area 2 - Pre-CPT for DCM	14 76 71 184	01-Mar-23 17-Mar-23 15-Apr-23 01-Mar-23 01-Mar-23 01-Mar-23	20-Jun-23 11-Jul-23 12-Oct-23 12-Oct-23 14-Mar-23	14-May-21 02-Apr-22 17-Jul-21 17-Jul-21 17-Jul-21	13-Aug-21 02-Jul-22 27-Aug-22 27-Aug-22 30-Jul-21	544 206 -236 -236 287	
S6-5174 S6-5180 Area 3 - DCM S6-7610 S6-7612 S6-7614 S6-7616 DCM Works - F Area 2 - DCM	6 Pond 9 & 11 Area 3 - Pre-CPT for DCM Area 3 - Set up the DCM Rig 2 and Mixer Plant Area 3 - DCM6 Pond 9 & Pond 11 (303nrs, 4mr/d/rig, 1 rig, R2) Area 3 - Post-DCM Coring Rig 3 at Pond 5,6,7 & 10	14 76 71 184 184 12	01-Mar-23 17-Mar-23 15-Apr-23 01-Mar-23 01-Mar-23	20-Jun-23 11-Jul-23 12-Oct-23 12-Oct-23	14-May-21 02-Apr-22 17-Jul-21 17-Jul-21	13-Aug-21 02-Jul-22 27-Aug-22 27-Aug-22	-544 -206 -236 -236	
S6-5174 S6-5180 Area 3 - DCM S6-7610 S6-7614 S6-7616 DCM Works - F Area 2 - DCM S6-7562 S6-7563 S6-7564 S6-7565	6 Pond 9 & 11 Area 3 - Pre-CPT for DCM Area 3 - Set up the DCM Rig 2 and Mixer Plant Area 3 - DCM6 Pond 9 & Pond 11 (303nrs, 4mr/d/rig, 1 rig, R2) Area 3 - Post-DCM Coring Rig 3 I at Pond 5,6,7 & 10 Area 2 - Pre-CPT for DCM Area 2 - Set up the DCM Rig 3 and Mixer Plant Area 2 - Set up the DCM Rig 3 and Mixer Plant Area 2 - Tree Transplanting (near Pond 10) Area 2 - DCM6 Pond 5 & DCM7 Pond 10 (223nrs, 5mr/d/rig, 1 rig, R3)	14 76 71 184 184 12 12	01-Mar-23 17-Mar-23 15-Apr-23 01-Mar-23 01-Mar-23 01-Mar-23 01-Mar-23 20-Mar-23	20-Jun-23 11-Jul-23 12-Oct-23 12-Oct-23 14-Mar-23 14-Mar-23 14-Mar-23 16-May-23	14-May-21 02-Apr-22 17-Jul-21 17-Jul-21 17-Jul-21 17-Jul-21	13-Aug-21 02-Jul-22 27-Aug-22 30-Jul-21 30-Jul-21 30-Jul-21 21-Sep-21	-544 -206 -236 -236 -287 -287	
S6-5174 S6-5180 Area 3 - DCM S6-7610 S6-7614 S6-7616 DCM Works - F Area 2 - DCM S6-7562 S6-7563 S6-7564 S6-7565 S6-7565 S6-9017	6 Pond 9 & 11 Area 3 - Pre-CPT for DCM Area 3 - Set up the DCM Rig 2 and Mixer Plant Area 3 - DCM6 Pond 9 & Pond 11 (303nrs, 4m/d/rig, 1 rig, R2) Area 3 - Post-DCM Coring Rig 3 I at Pond 5,6,7 & 10 Area 2 - Pre-CPT for DCM Area 2 - Set up the DCM Rig 3 and Mixer Plant Area 2 - Set up the DCM Rig 3 and Mixer Plant Area 2 - Tree Transplanting (near Pond 10) Area 2 - DCM6 Pond 5 & DCM7 Pond 10 (223nrs, 5m/d/rig, 1 rig, R3) Area 2 - Post-DCM Coring	14 76 71 184 184 12 12 12 12 45 147	01-Mar-23 17-Mar-23 15-Apr-23 01-Mar-23 01-Mar-23 01-Mar-23 01-Mar-23 20-Mar-23 18-Apr-23	20-Jun-23 11-Jul-23 12-Oct-23 12-Oct-23 14-Mar-23 14-Mar-23 14-Mar-23 16-May-23 12-Oct-23	14-May-21 02-Apr-22 17-Jul-21 17-Jul-21 17-Jul-21 17-Jul-21 17-Jul-21 31-Jul-21 01-Mar-22	13-Aug-21 02-Jul-22 27-Aug-22 30-Jul-21 30-Jul-21 30-Jul-21 21-Sep-21 27-Aug-22	-544 -206 -236 -236 -287 -287 -287 -287 -281 -291 -236	
S8-5174 S6-5180 Area 3 - DCM S6-7610 S6-7612 S6-7614 S6-7616 DCM Works - F Area 2 - DCM S6-7562 S6-7563 S6-7564 S6-7565 S6-9017 DCM Works - F	6 Pond 9 & 11 Area 3 - Pre-CPT for DCM Area 3 - Set up the DCM Rig 2 and Mixer Plant Area 3 - DCM6 Pond 9 & Pond 11 (303nrs, 4nr/d/rig, 1 rig, R2) Area 3 - Post-DCM Coring Rig 3 I at Pond 5,6,7 & 10 Area 2 - Pre-CPT for DCM Area 2 - Set up the DCM Rig 3 and Mixer Plant Area 2 - Set up the DCM Rig 3 and Mixer Plant Area 2 - Tree Transplanting (near Pond 10) Area 2 - DCM6 Pond 5 & DCM7 Pond 10 (223nrs, 5nr/d/rig, 1 rig, R3) Area 2 - Post-DCM Coring	14 76 71 184 184 12 12 12 12 12 12 12 12 12 12 12 12 73	01-Mar-23 17-Mar-23 15-Apr-23 01-Mar-23 01-Mar-23 01-Mar-23 01-Mar-23 20-Mar-23 18-Apr-23 13-Feb-23	20-Jun-23 11-Jul-23 12-Oct-23 14-Mar-23 14-Mar-23 14-Mar-23 14-Mar-23 16-May-23 12-Oct-23 13-May-23	14-May-21 02-Apr-22 17-Jul-21 17-Jul-21 17-Jul-21 17-Jul-21 17-Jul-21 31-Jul-21 01-Mar-22 22-Oct-21	13-Aug-21 02-Jul-22 27-Aug-22 30-Jul-21 30-Jul-21 30-Jul-21 21-Sep-21 27-Aug-22 29-Jan-22	-544 -206 -236 -236 -287 -287 -287 -287 -287 -287 -291 -291 -236 -236 -374	
S8-5174 S6-5180 Area 3 - DCM S6-7610 S6-7612 S6-7614 S6-7616 DCM Works - F Area 2 - DCM S6-7562 S6-7563 S6-7564 S6-7565 S6-9017 DCM Works - F	6 Pond 9 & 11 Area 3 - Pre-CPT for DCM Area 3 - Set up the DCM Rig 2 and Mixer Plant Area 3 - DCM6 Pond 9 & Pond 11 (303nrs, 4m/d/rig, 1 rig, R2) Area 3 - Post-DCM Coring Rig 3 I at Pond 5,6,7 & 10 Area 2 - Pre-CPT for DCM Area 2 - Set up the DCM Rig 3 and Mixer Plant Area 2 - Set up the DCM Rig 3 and Mixer Plant Area 2 - Tree Transplanting (near Pond 10) Area 2 - DCM6 Pond 5 & DCM7 Pond 10 (223nrs, 5m/d/rig, 1 rig, R3) Area 2 - Post-DCM Coring	14 76 71 184 184 12 12 12 12 45 147	01-Mar-23 17-Mar-23 15-Apr-23 01-Mar-23 01-Mar-23 01-Mar-23 01-Mar-23 20-Mar-23 18-Apr-23	20-Jun-23 11-Jul-23 12-Oct-23 12-Oct-23 14-Mar-23 14-Mar-23 14-Mar-23 16-May-23 12-Oct-23	14-May-21 02-Apr-22 17-Jul-21 17-Jul-21 17-Jul-21 17-Jul-21 17-Jul-21 31-Jul-21 01-Mar-22	13-Aug-21 02-Jul-22 27-Aug-22 30-Jul-21 30-Jul-21 30-Jul-21 21-Sep-21 27-Aug-22	-544 -206 -236 -236 -287 -287 -287 -287 -281 -291 -236	
S6-5174 S6-5180 Area 3 - DCM S6-7610 S6-7612 S6-7614 S6-7616 DCM Works - F Area 2 - DCM S6-7563 S6-7563 S6-7564 S6-7565 S6-9017 DCM Works - F Area 1 - DCM	6 Pond 9 & 11 Area 3 - Pre-CPT for DCM Area 3 - Set up the DCM Rig 2 and Mixer Plant Area 3 - DCM6 Pond 9 & Pond 11 (303nrs, 4nr/d/rig, 1 rig, R2) Area 3 - Post-DCM Coring Rig 3 I at Pond 5,6,7 & 10 Area 2 - Pre-CPT for DCM Area 2 - Set up the DCM Rig 3 and Mixer Plant Area 2 - Set up the DCM Rig 3 and Mixer Plant Area 2 - Set up the DCM Rig 3 and Mixer Plant Area 2 - Tree Transplanting (near Pond 10) Area 2 - DCM6 Pond 5 & DCM7 Pond 10 (223nrs, 5nr/d/rig, 1 rig, R3) Area 2 - Post-DCM Coring Rig 4 15, DCM7, DCM8	14 76 71 184 12 12 12 12 12 73 73	01-Mar-23 17-Mar-23 15-Apr-23 01-Mar-23 01-Mar-23 01-Mar-23 01-Mar-23 01-Mar-23 20-Mar-23 18-Apr-23 13-Feb-23	20-Jun-23 11-Jul-23 12-Oct-23 14-Mar-23 14-Mar-23 14-Mar-23 14-Mar-23 16-May-23 12-Oct-23 13-May-23	14-May-21 02-Apr-22 17-Jul-21 17-Jul-21 17-Jul-21 17-Jul-21 17-Jul-21 31-Jul-21 01-Mar-22 22-Oct-21 22-Oct-21	13-Aug-21 02-Jul-22 27-Aug-22 30-Jul-21 30-Jul-21 30-Jul-21 21-Sep-21 27-Aug-22 29-Jan-22	-544 -206 -236 -236 -287 -287 -287 -287 -287 -287 -291 -236 -374 -374	
S6-5174 S6-5180 Area 3 - DCM S6-7610 S6-7612 S6-7614 S6-7616 DCM Works - F Area 2 - DCM S6-7562 S6-7563 S6-7564 S6-7565 S6-9017 DCM Works - F Area 1 - DCM S6-4810	6 Pond 9 & 11 Area 3 - Pre-CPT for DCM Area 3 - Set up the DCM Rig 2 and Mixer Plant Area 3 - DCM6 Pond 9 & Pond 11 (303nrs, 4m/d/rig, 1 rig, R2) Area 3 - Post-DCM Coring Rig 3 I at Pond 5,6,7 & 10 Area 2 - Pre-CPT for DCM Area 2 - Set up the DCM Rig 3 and Mixer Plant Area 2 - Set up the DCM Rig 3 and Mixer Plant Area 2 - Set up the DCM Rig 3 and Mixer Plant Area 2 - Set up the DCM Rig 3 and Mixer Plant Area 2 - DCM6 Pond 5 & DCM7 Pond 10 (223nrs, 5m/d/rig, 1 rig, R3) Area 2 - DCM6 Pond 5 & DCM7 Pond 10 (223nrs, 5m/d/rig, 1 rig, R3) Area 2 - Post-DCM Coring Rig 4 VCR TTA (TAR1) - Shift Access Road to DCM4fcoprint	14 76 71 184 12 12 12 12 12 73 73 0	01-Mar-23 17-Mar-23 15-Apr-23 01-Mar-23 01-Mar-23 01-Mar-23 01-Mar-23 20-Mar-23 18-Apr-23 13-Feb-23 13-Feb-23	20-Jun-23 11-Jul-23 12-Oct-23 12-Oct-23 14-Mar-23 14-Mar-23 14-Mar-23 16-May-23 12-Oct-23 13-May-23	14-May-21 02-Apr-22 17-Jul-21 17-Jul-21 17-Jul-21 17-Jul-21 17-Jul-21 31-Jul-21 01-Mar-22 22-Oct-21 22-Oct-21 30-Oct-21	13-Aug-21 02-Jul-22 27-Aug-22 30-Jul-21 30-Jul-21 30-Jul-21 21-Sep-21 27-Aug-22 29-Jan-22	-544 -206 -236 -236 -287 -287 -287 -287 -287 -291 -236 -374 -374 -377	

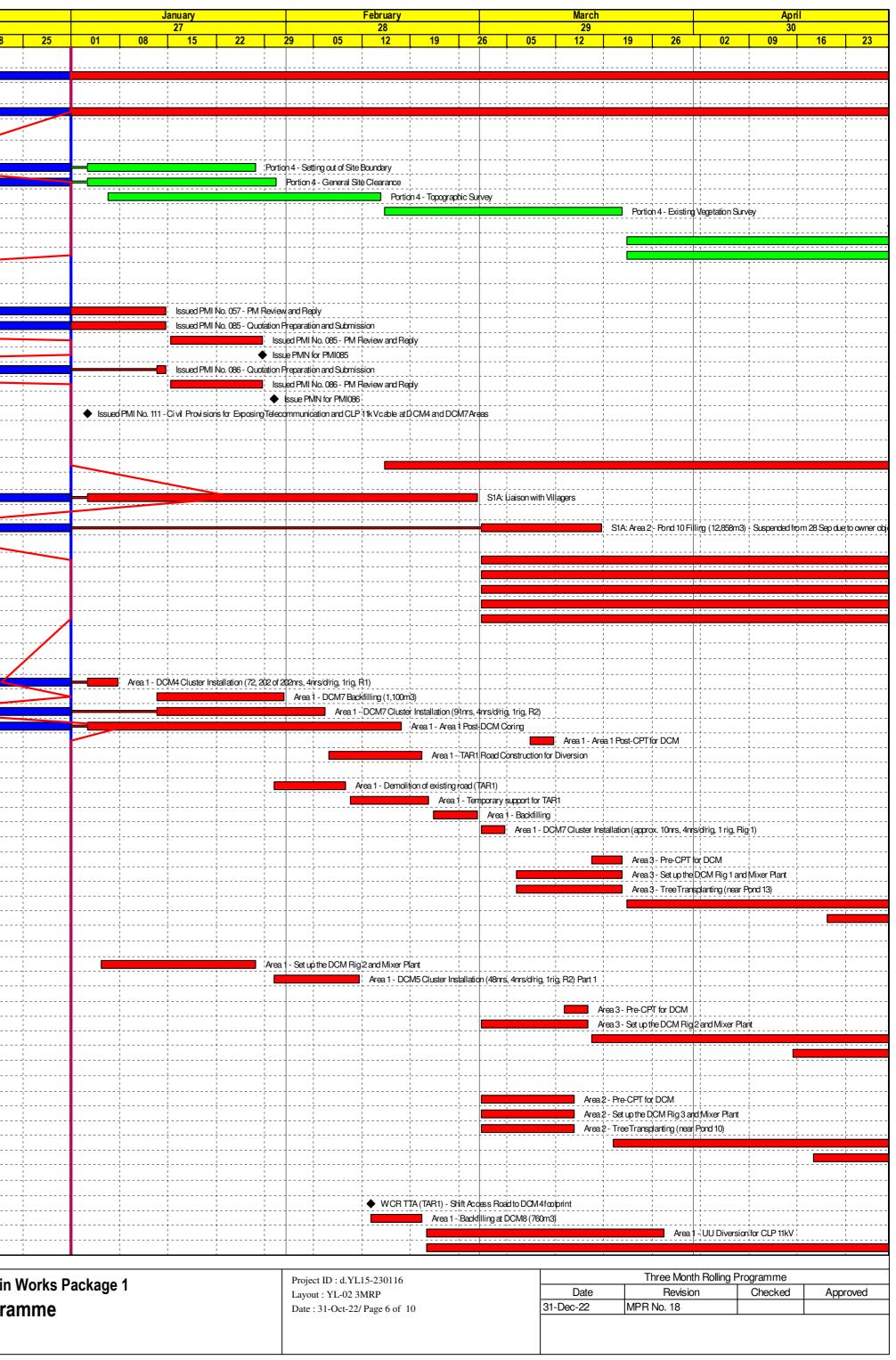


Actual Work

Remaining WorkCritical Remaining Work

♦ Milestone

Contract YL/2020/01 - Lok Ma Chau Loop Main Works Package 1 Three Month Rolling Programme



	Activity Name	Orig	Early Start	Early Finish	Late Start	Late Finish	Total		Decem 26	ber
		Dur					Float	04	11	
S6-7504	Area 1 - Set up the DCM Rig 4 and Mixer Plant	14	27-Apr-23	13-May-23	14-Jan-22	29-Jan-22	-374		• 	
Area 2 (CH 190	00 to CH 1650)	16	01-Mar-23	18-Mar-23	30-Jul-21	30-Jul-21	-291		- - -	
S6-6195	WCR TTA 41 - Road Closure	0	01-Mar-23*		30-Jul-21		-275			
S6-6315	Pond 10 Filling Complete	0		18-Mar-23		30-Jul-21	-291			
6 WCR Pai L	au	82	30-Sep-22 A	03-May-23	17-Dec-23	07-May-24	144			
6-5638	PL No. 1 - Precast Architectural Appearance Fabrication and Delivery to Site	189	30-Sep-22 A	06-Apr-23	17-Dec-23	21-Mar-24	350			
	Construction (Location 15, LMC Road)	86	05-Dec-22A	22-Mar-23	17-Jan-24	09-Apr-24	307			
	paration Works	11	09-Mar-23	21-Mar-23	22-Mar-24	08-Apr-24	307			
S6-5686	PL No. 1 - Construct Temporary Road for TTAScheme No. 7	11	09-Mar-23	21-Mar-23	22-Mar-24	08-Apr-24	307			
PL No.1 - Four		86	05-Dec-22A	22-Mar-23	17-Jan-24	09-Apr-24	307			
S6-3625	PL No. 1 - Erect TTAScheme No. 30	1	22-Mar-23	22-Mar-23	09-Apr-24	09-Apr-24	307			
S6-9207	PLNo. 1 (North) - Install ELS	74 45	05-Dec-22A 05-Dec-22A	08-Mar-23 28-Feb-23	17-Jan-24 17-Jan-24	21-Mar-24 13-Mar-24	307 307	- <u></u>		
S6-9397	PLNo. 1 (North) - Excavate to formation level	45	05-Dec-22A	28-Feb-23	17-Jan-24	13-Mar-24	307	· · · · · · · · · · · · · ·		
S6-9407	PLNo. 1 (North) - Place 500mm rock fill on final excavation level	3	06-Feb-23	08-Feb-23	20-Feb-24	22-Feb-24	307		·	-
S6-9417	PL No. 1 (North) - Construct the structural blinding	3	09-Feb-23	11-Feb-23	23-Feb-24	26-Feb-24	307			
S6-9427	PL No. 1 (North) - Erect formwork and fix reinforcement	4	13-Feb-23	16-Feb-23	27-Feb-24	01-Mar-24	307			
S6-9437	PL No. 1 (North) - Concreting for footing and columns to first CJ	1	17-Feb-23	17-Feb-23	02-Mar-24	02-Mar-24	307		· · · · · · · · · · · · · · · · · · ·	
S6-9447	PL No. 1 (North) - Curing and remove formwork	4	18-Feb-23	22-Feb-23	04-Mar-24	07-Mar-24	307		·	
S6-9457	PLNo. 1 (North) - Remove ELS	7	23-Feb-23	02-Mar-23	08-Mar-24	15-Mar-24	307]
S6-9467	PL No. 1 (North) - Backfill to existing ground level	5	03-Mar-23	08-Mar-23	16-Mar-24	21-Mar-24	307			
ai Lau No. 2	Construction (Location 11, HWT Road)	99	28-Dec-22A	03-May-23	08-Jan-24	07-May-24	299			
PL No.2 - Four	ndation	67	28-Dec-22A	21-Mar-23	08-Jan-24	25-Mar-24	299			
S6-5886	PL No. 2 - Place 500mm rock fill on final excavation level	3	28-Dec-22A	30-Dec-22A	08-Jan-24	08-Jan-24				
S6-5896	PL No. 2 - Erect formwork and fix reinforcement for footing	9	31-Dec-22A	10-Jan-23	08-Jan-24	15-Jan-24	299			
S6-5906	PL No. 2 - Correting for footing	1	16-Jan-23	16-Jan-23	20-Jan-24	20-Jan-24	299			
S6-5907	PL No. 2 - Erect formwork and fix reinforcement for column	6	06-Feb-23	11-Feb-23	06-Feb-24	16-Feb-24	299		; 	
S6-5908	PL No. 2 - Remove formwork, post concrete inspection	8	17-Feb-23	25-Feb-23	22-Feb-24	01-Mar-24	299			
S6-5912	PL No. 2 - Backfill to 500mm below 1st layer strut and waling	8	27-Feb-23	07-Mar-23	02-Mar-24	11-Mar-24	299			
S6-5916 S6-5926	PL No. 2 - Remove 1st layer strut and wailing PL No. 2 - Backfill to existing ground level	3	08-Mar-23 11-Mar-23	10-Mar-23 15-Mar-23	12-Mar-24 15-Mar-24	14-Mar-24 19-Mar-24	299 299		 	
S6-5926	PL No. 2 - Backlin to existing ground level PL No. 2 - Remove ELS	4 5	16-Mar-23	21-Mar-23	20-Mar-24	25-Mar-24	299			
PL No.2 - Supe		32	22-Mar-23	03-May-23	26-Mar-24	07-May-24	235			
S6-2100	PL No. 2 - Erect falsework by metal scaffold ng	5	22-Mar-23	27-Mar-23	26-Mar-24	03-Apr-24	299			
S6-5946	PLNo. 2 - Erect formwork and fix reinforcement for remaining column	5	28-Mar-23	01-Apr-23	05-Apr-24	10-Apr-24	299			
S6-5956	PLNo. 2 - Concreting for remaining column	1	03-Apr-23	03-Apr-23	11-Apr-24	11-Apr-24	299			
S6-5966	PLNo. 2 - Erect formwork and fix reinforcement for beam and roof	11	04-Apr-23	20-Apr-23	12-Apr-24	24-Apr-24	299		·	
S6-5976	PL No. 2 - Concreting for beam and roof	1	21-Apr-23	21-Apr-23	25-Apr-24	25-Apr-24	299		·	
S6-5986	PL No. 2 - Remove formwork and falsework	9	22-Apr-23	03-May-23	26-Apr-24	07-May-24	299			
ection 7 - G	Ground Treatment Works and Site Formation at Portion 7 (Area Oc	274	03-Jan-22 A	14-Jan-24	28-Dec-21	14-May-23	-95		1	
7 Civil Struct		161	22-Feb-22 A	15-May-23	02-Jun-22	12-Oct-22	-83			
S7-0001	Available area occupied by Temporary Office	372	22-Feb-22 A	28-Feb-23	02-Jun-22	30-Jul-22	-213			
57-3810	Issue PMI & PMN to commence works	0	2100227	28-Feb-23		30-Jul-22				
		U U		2010020			-1/2			i
	Preparation & Submissions	60	01-Mar-23	15-May-23	01-Aug-22		-172 -172			
7-3820	Preparation & Submissions	60 274	01-Mar-23 03-Jan-22 A	15-May-23 14-Jan-24	01-Aug-22 14-Jun-22	12-Oct-22	-1/2 -172 -95			
87-3820 7 Ground Im	provement - PVD/Surcharge (Area Occupied)	274	03-Jan-22 A	14-Jan-24	14-Jun-22	12-Oct-22 14-May-23	-172 -95	· · · · · · · · · · · · · · · · · · ·		
7-3820 7 Ground Im 7-1090	provement - PVD/Surcharge (Area Occupied) Portion 7 - PVD Installation (184,500m @ 2,000m/day/rig - 2 rig)	274 45	03-Jan-22 A 03-Jan-22 A	14-Jan-24 08-Mar-23	14-Jun-22 14-Jun-22	12-Oct-22 14-May-23 21-Jun-22	-172 -95 -212	· · · · · · · · · · · · · · · · · · ·		
7-3820 7 Ground Im 7-1090 7-1100	provement - PVD/Surcharge (Area Occupied) Portion 7 - PVD Installation (184,500m @ 2,000m/day/rig - 2 rig) Portion 7 - General Fill to Surcharge 2m High (23,780m3 @ 600m3/d)	274 45 28	03-Jan-22 A 03-Jan-22 A 24-Mar-23	14-Jan-24 08-Mar-23 29-Apr-23	14-Jun-22 14-Jun-22 23-Jul-22	12-Oct-22 14-May-23 21-Jun-22 24-Aug-22	-172 -95 -212 -199			
57-3820 7 Ground Im 57-1090 57-1100 57-1140	provement - PVD/Surcharge (Area Occupied) Portion 7 - PVD Installation (184,500m @ 2,000m/day/rig - 2 rig) Portion 7 - General Fill to Surcharge 2m High (23,780m3 @ 600m3/d) Portion 7 - Surcharge Period (9 months) (23,900m3)	274 45 28 270	03-Jan-22 A 03-Jan-22 A 24-Mar-23 20-Apr-23	14-Jan-24 08-Mar-23 29-Apr-23 14-Jan-24	14-Jun-22 14-Jun-22 23-Jul-22 18-Aug-22	12-Oct-22 14-May-23 21-Jun-22 24-Aug-22 14-May-23	-172 -95 -212 -199 -245			
57-3820 57 Ground Im 57-1090 57-1100 57-1140 57 Ground Im	provement - PVD/Surcharge (Area Occupied) Portion 7 - PVD Installation (184,500m @ 2,000m/day/rig - 2 rig) Portion 7 - General Fill to Surcharge 2m High (23,780m3 @ 600m3/d) Portion 7 - Surcharge Period (9 months) (23,900m3) provement - DCM (Area Occupied)	274 45 28 270 191	03-Jan-22 A 03-Jan-22 A 24-Mar-23 20-Apr-23 26-Jan-22 A	14-Jan-24 08-Mar-23 29-Apr-23 14-Jan-24 08-Jul-23	14-Jun-22 14-Jun-22 23-Jul-22 18-Aug-22 28-Dec-21	12-Oct-22 14-May-23 21-Jun-22 24-Aug-22 14-May-23 05-Jul-22	-172 -95 -212 -199 -245 -137			
57-3820 7 Ground Im 57-1090 57-1100 57-1140 7 Ground Im 57-1165	provement - PVD/Surcharge (Area Occupied) Portion 7 - PVD Installation (184,500m @ 2,000m/day/rig - 2 rig) Portion 7 - General Fill to Surcharge 2m High (23,780m3 @ 600m3/d) Portion 7 - Surcharge Period (9 months) (23,900m3) provement - DCM (Area Occupied) Area Occupied	274 45 28 270 191 370	03-Jan-22 A 03-Jan-22 A 24-Mar-23 20-Apr-23 26-Jan-22 A 24-Feb-22 A	14-Jan-24 08-Mar-23 29-Apr-23 14-Jan-24 08-Jul-23 28-Feb-23	14-Jun-22 14-Jun-22 23-Jul-22 18-Aug-22 28-Dec-21 28-Dec-21	12-Oct-22 14-May-23 21-Jun-22 24-Aug-22 14-May-23 05-Jul-22 24-Feb-22	-172 -95 -212 -199 -245 -137 -369			
7-3820 7 Ground Im 7-1090 7-1140 7 Ground Im 7-1165 7-1190	provement - PVD/Surcharge (Area Occupied) Portion 7 - PVD Installation (184,500m @ 2,000m/day/rig - 2 rig) Portion 7 - General Fill to Surcharge 2m High (23,780m3 @ 600m3/d) Portion 7 - Surcharge Period (9 months) (23,900m3) provement - DCM (Area Occupied) Area Occupied Portion 7 - Construct DCM Clusters Stage 1 (15.2, 15.2b, 200m) 28,790 of 194,330 @ 180m3/d/auger - 4 auger	274 45 28 270 191 370 52	03-Jan-22 A 03-Jan-22 A 24-Mar-23 20-Apr-23 26-Jan-22 A 24-Feb-22 A 26-Jan-22 A	14-Jan-24 08-Mar-23 29-Apr-23 14-Jan-24 08-Jul-23 28-Feb-23 12-Apr-23	14-Jun-22 14-Jun-22 23-Jul-22 18-Aug-22 28-Dec-21 28-Dec-21 25-Feb-22	12-Oct-22 14-May-23 21-Jun-22 24-Aug-22 14-May-23 05-Jul-22 24-Feb-22 04-Apr-22	-172 -95 -212 -199 -245 -137 -369 -298			
7-3820 7 Ground Im 7-1090 7-1100 7-1140 7 Ground Im 7-1165 7-1190 7-1191	provement - PVD/Surcharge (Area Occupied) Portion 7 - PVD Installation (184,500m @ 2,000m/day/rig - 2 rig) Portion 7 - General Fill to Surcharge 2m High (23,780m3 @ 600m3/d) Portion 7 - General Fill to Surcharge 2m High (23,780m3 @ 600m3/d) Portion 7 - Surcharge Period (9 months) (23,900m3) provement - DCM (Area Occupied) Area Occupied Portion 7 - Construct DCM Clusters Stage 1 (15.2, 15.2b, 200m) 28,790 of 194,330 @ 180m3/d/auger - 4 auger Portion 7 - Construct DCM Clusters Stage 2 (18D, 15.5, 15.4, 350m) 50,382 of 194,330 @ 180m3/d/auger - 4 auger	274 45 28 270 191 370	03-Jan-22 A 03-Jan-22 A 24-Mar-23 20-Apr-23 26-Jan-22 A 24-Feb-22 A 26-Jan-22 A 13-Apr-23	14-Jan-24 08-Mar-23 29-Apr-23 14-Jan-24 08-Jul-23 28-Feb-23 12-Apr-23 08-Jul-23	14-Jun-22 14-Jun-22 23-Jul-22 18-Aug-22 28-Dec-21 28-Dec-21 25-Feb-22 06-Apr-22	12-Oct-22 14-May-23 21-Jun-22 24-Aug-22 14-May-23 05-Jul-22 24-Feb-22 04-Apr-22 05-Jul-22	-172 -95 -212 -199 -245 -137 -369 -298 -298			
7-3820 7 Ground Im 7-1090 7-1100 7-1140 7 Ground Im 7-1165 7-1190 7-1191 7 Civil Struct	provement - PVD/Surcharge (Area Occupied) Portion 7 - PVD Installation (184,500m @ 2,000m/day/rig - 2 rig) Portion 7 - General Fill to Surcharge 2m High (23,780m3 @ 600m3/d) Portion 7 - General Fill to Surcharge 2m High (23,780m3 @ 600m3/d) Portion 7 - Surcharge Period (9 months) (23,900m3) provement - DCM (Area Occupied) Area Occupied Portion 7 - Construct DCM Clusters Stage 1 (15.2, 15.2b, 200m) 28,790 of 194,330 @ 180m3/d/auger - 4 auger Portion 7 - Construct DCM Clusters Stage 2 (18D, 15.5, 15.4, 350m) 50,382 of 194,330 @ 180m3/d/auger - 4 auger tures (Area Occupied)	274 45 28 270 191 370 52 71 0	03-Jan-22 A 03-Jan-22 A 24-Mar-23 20-Apr-23 26-Jan-22 A 26-Jan-22 A 13-Apr-23 30-Apr-23	14-Jan-24 08-Mar-23 29-Apr-23 14-Jan-24 08-Jul-23 28-Feb-23 12-Apr-23 08-Jul-23 30-Apr-23	14-Jun-22 14-Jun-22 23-Jul-22 18-Aug-22 28-Dec-21 28-Dec-21 25-Feb-22 06-Apr-22 23-Dec-22	12-Oct-22 14-May-23 21-Jun-22 24-Aug-22 14-May-23 05-Jul-22 24-Feb-22 04-Apr-22 05-Jul-22 23-Dec-22	-172 -95 -212 -199 -245 -137 -369 -298 -298 -298 -128			
- 3820 2 Ground Im - 1090 - 1100 2 1140 2 Ground Im - 1165 - 1165 - 1190 2 Civil Struct 7 - Public Tra	provement - PVD/Surcharge (Area Occupied) Portion 7 - PVD Installation (184,500m @ 2,000m/day/rig - 2 rig) Portion 7 - General Fill to Surcharge 2m High (23,780m3 @ 600m3/d) Portion 7 - Surcharge Period (9 months) (23,900m3) provement - DCM (Area Occupied) Area Occupied Portion 7 - Construct DCM Clusters Stage 1 (152,15.2b, 200m) 28,790 of 194,330 @ 180m3/d/auger - 4 auger Portion 7 - Construct DCM Clusters Stage 2 (18D,155,15.4, 350m) 50,382 of 194,330 @ 180m3/d/auger - 4 auger tures (Area Occupied) ansport Interchange (PTI) (Area Occupied)	274 45 28 270 191 370 52 71 0 0	03-Jan-22 A 03-Jan-22 A 24-Mar-23 20-Apr-23 26-Jan-22 A 24-Feb-22 A 26-Jan-22 A 13-Apr-23 30-Apr-23	14-Jan-24 08-Mar-23 29-Apr-23 14-Jan-24 08-Jul-23 28-Feb-23 12-Apr-23 08-Jul-23 30-Apr-23 30-Apr-23	14-Jun-22 14-Jun-22 23-Jul-22 18-Aug-22 28-Dec-21 28-Dec-21 25-Feb-22 06-Apr-22 23-Dec-22 23-Dec-22	12-Oct-22 14-May-23 21-Jun-22 24-Aug-22 14-May-23 05-Jul-22 24-Feb-22 05-Jul-22 23-Dec-22 23-Dec-22	-172 -95 -212 -199 -245 -137 -369 -298 -298 -298 -298 -128			
-3820 Ground Im -1090 -1100 -1140 Ground Im -1165 -1190 -1191 Civil Struct 7 - Public Tra 57 - PTI Prelin	provement - PVD/Surcharge (Area Occupied) Portion 7 - PVD Installation (184,500m @ 2,000m/day/rig - 2 rig) Portion 7 - General Fill to Surcharge 2m High (23,780m3 @ 600m3/d) Portion 7 - General Fill to Surcharge 2m High (23,780m3 @ 600m3/d) Portion 7 - Surcharge Period (9 months) (23,900m3) provement - DCM (Area Occupied) Area Occupied Portion 7 - Construct DCM Clusters Stage 1 (152,15.2b, 200m) 28,790 of 194,330 @ 180m3/d/auger - 4 auger Portion 7 - Construct DCM Clusters Stage 2 (18D,15.5,15.4, 350m) 50,382 of 194,330 @ 180m3/d/auger - 4 auger tures (Area Occupied) ansport Interchange (PTI) (Area Occupied) minary Submissions	274 45 28 270 191 370 52 71 0 0 0 0	03-Jan-22 A 03-Jan-22 A 24-Mar-23 20-Apr-23 26-Jan-22 A 24-Feb-22 A 26-Jan-22 A 13-Apr-23 30-Apr-23 30-Apr-23 30-Apr-23	14-Jan-24 08-Mar-23 29-Apr-23 14-Jan-24 08-Jul-23 28-Feb-23 12-Apr-23 08-Jul-23 30-Apr-23	14-Jun-22 14-Jun-22 23-Jul-22 18-Aug-22 28-Dec-21 28-Dec-21 25-Feb-22 06-Apr-22 23-Dec-22 23-Dec-22 23-Dec-22	12-Oct-22 14-May-23 21-Jun-22 24-Aug-22 14-May-23 05-Jul-22 24-Feb-22 04-Apr-22 05-Jul-22 23-Dec-22	-172 -95 -212 -199 -245 -137 -369 -238 -238 -238 -128 -128 -128 -128			
7-3820 7 Ground Im 7-1090 7-1100 7-1140 7 Ground Im 7-1165 7-1190 7-1191 7 Civil Struct 7 - Public Tra 87 - PTI Prelin PRE-700	provement - PVD/Surcharge (Area Occupied) Portion 7 - PVD Installation (184,500m @ 2,000m/day/rig - 2 rig) Portion 7 - General Fill to Surcharge 2m High (23,780m3 @ 600m3/d) Portion 7 - General Fill to Surcharge 2m High (23,780m3 @ 600m3/d) Portion 7 - Surcharge Period (9 months) (23,900m3) provement - DCM (Area Occupied) Area Occupied Portion 7 - Construct DCM Clusters Stage 1 (15.2, 15.2b, 200m) 28,790 of 194,330 @ 180m3/d/auger - 4 auger Portion 7 - Construct DCM Clusters Stage 2 (18D, 15.5, 15.4, 350m) 50,382 of 194,330 @ 180m3/d/auger - 4 auger tures (Area Occupied) ansport Interchange (PTI) (Area Occupied) minary Submissions Confirmation of Specialist Steelworks Subcontractor	274 45 28 270 191 370 52 71 0 0 0 0 0 0 0	03-Jan-22 A 03-Jan-22 A 24-Mar-23 20-Apr-23 26-Jan-22 A 26-Jan-22 A 13-Apr-23 30-Apr-23 30-Apr-23 30-Apr-23 30-Apr-23	14-Jan-24 08-Mar-23 29-Apr-23 14-Jan-24 08-Jul-23 28-Feb-23 12-Apr-23 08-Jul-23 30-Apr-23 30-Apr-23 30-Apr-23	14-Jun-22 14-Jun-22 23-Jul-22 18-Aug-22 28-Dec-21 28-Dec-21 25-Feb-22 06-Apr-22 23-Dec-22 23-Dec-22 23-Dec-22 23-Dec-22	12-Oct-22 14-May-23 21-Jun-22 24-Aug-22 14-May-23 05-Jul-22 05-Jul-22 05-Jul-22 23-Dec-22 23-Dec-22	-172 -95 -212 -199 -245 -137 -369 -238 -238 -238 -128 -128 -128 -128 -128			
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Actual Level of Effort

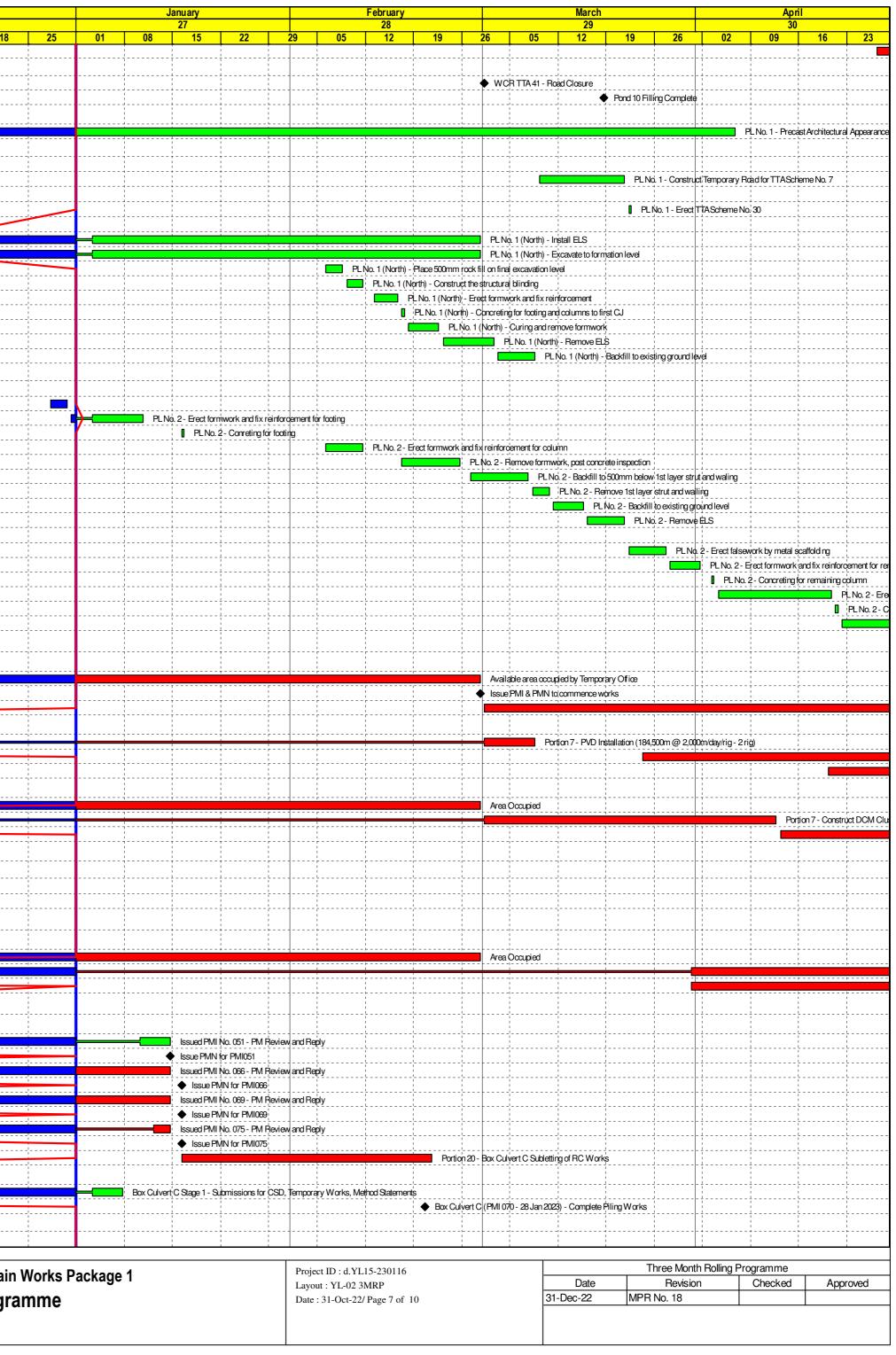
Actual Work

Remaining Work

Critical Remaining Work

♦♦ Milestone

Contract YL/2020/01 - Lok Ma Chau Loop Main Works Package 1 Three Month Rolling Programme



	Activity Name	Orig Dur	Early Start	Early Finish	Late Start	Late Finish	Total Float	Dec
Box C - Pilin	g Rig 1	36	02-Dec-22A	30-Jan-23	07-Jun-22	12-Nov-26	1120	
S9-5815	Construction Pile P15-a (ave. 2.5d/nr/rig, 1 rig) Rig 1	3	02-Dec-22A	14-Dec-22A	07-Jun-22	07-Jun-22		
S9-5816	Construction Pile P15-b (ave. 2.5d/nr/rig, 1 rig) Rig 1	3	05-Dec-22A	14-Dec-22A	07-Jun-22	07-Jun-22		
S9-5820	Construction Pile P14-a (ave. 2.5d/m/r/rig, 1 rig) Rig 1	3	06-Dec-22A	16-Dec-22A	07-Jun-22	07-Jun-22		
S9-5830	Construction Pile P14-b (ave. 2.5d/nr/rig, 1 rig) Rig 1	3	08-Dec-22A	16-Dec-22A	07-Jun-22	07-Jun-22	170	
S9-5840 S9-5850	Construction Pile P19-a (ave. 2.5d/nr/rig, 1 rig) Rig 1 Construction Pile P19-b (ave. 2.5d/nr/rig, 1 rig) Rig 1	3	21-Dec-22A	04-Jan-23	07-Jun-22	08-Jun-22 08-Jun-22	-173 -173	
S9-5860	Construction File F19-b (ave. 2.5d/nr/rig, 1 rig) Rig 1 Construction File P18-a (ave. 2.5d/nr/rig, 1 rig) Rig 1	3	22-Dec-22A 23-Dec-22A	04-Jan-23 06-Jan-23	07-Jun-22 28-Jun-22	29-Jun-22	-173	
S9-5870	Construction Pile P18-a (ave. 2.5d/nr/rig, 1 rig) Rig 1	3	28-Dec-22A	06-Jan-23	29-Jun-22	29-Jun-22	-157	·
S9-5910	Construction Pile P11-a (ave. 2.5d/m//rig, 1 rig) Rig 1	3	19-Dec-22A	30-Dec-22A	12-Nov-26	12-Nov-26	-107	
S9-5960	Construction Pile P11-b (ave. 2.5d/m/rig, 1 rig) Rig 1	3	20-Dec-22A	30-Dec-22A	12-Nov-26	12-Nov-26		
S9-6170	Construction Pile P9-a (ave. 25d/nr/rig, 1 rig) Rig 1	3	12-Dec-22A	20-Dec-22A	09-Jun-22	09-Jun-22		
S9-6180	Construction Pile P9-b (ave. 2.5d/nr/rig, 1 rig) Rig 1	3	13-Dec-22A	20-Dec-22A	09-Jun-22	09-Jun-22		
S9-6190	Construction Pile P17-a (ave. 2.5d/nr/rig, 1 rig) Rig 1	3	05-Jan-23	07-Jan-23	09-Jun-22	11-Jun-22	-173	· · · · · · · · · · · · · · · · · · ·
S9-6220	Construction Pile P17-b (ave. 2.5d/nr/rig, 1 rig) Rig 1	3	07-Jan-23	10-Jan-23	11-Jun-22	14-Jun-22	-173	
S9-6230	Construction Pile P13-a (ave. 2.5d/nr/rig, 1 rig) Rig 1	3	11-Jan-23	13-Jan-23	15-Jun-22	17-Jun-22	-173	
S9-6240	Construction Pile P13-b (ave. 2.5d/nr/rig, 1 rig) Rig 1	3	12-Jan-23	14-Jan-23	16-Jun-22	18-Jun-22	-173	
S9-6250	Construction Pile P12-a (ave. 2.5d/nr/rig, 1 rig) Rig 1	3	14-Jan-23	17-Jan-23	18-Jun-22	21-Jun-22	-173	·
S9-6260	Construction Pile P12-b (ave. 2.5d/nr/rig, 1 rig) Rig 1	3	17-Jan-23	19-Jan-23	21-Jun-22	23-Jun-22	-173	·
S9-6270	Construction Pile P10-a (ave. 2.5d/nr/rig, 1 rig) Rig 1	3	20-Jan-23	27-Jan-23	24-Jun-22	27-Jun-22	-173	
S9-6280	Construction Pile P10-b (ave. 2.5d/nr/rig, 1 rig) Rig 1	3	27-Jan-23	30-Jan-23	27-Jun-22	29-Jun-22	-173	· · · · · · · · · · · · · · · · · · ·
Box C - Piling	g Rig 2	42	01-Dec-22A	26-Jan-23	24-Jun-22	29-Jun-22	-170	·
S9-5995	Construction Pile P7-a (ave. 2.5d/m/rig, 1 rig) Rig 2	3	06-Dec-22A	19-Dec-22A	24-Jun-22	24-Jun-22		
S9-6020	Construction Pile P06-a (ave. 2.5d/nr/rig, 1 rig) Rig 2	3	01-Dec-22A	22-Dec-22A	24-Jun-22	24-Jun-22		
S9-6030	Construction Pile P06-b (ave. 2.5d/nr/rig, 1 rig) Rig 2	3	05-Dec-22A	22-Dec-22A	24-Jun-22	24-Jun-22		
S9-6040	Construction Pile P08-a (ave. 2.5d/nr/rig, 1 rig) Rig 2	3	16-Jan-23	18-Jan-23	24-Jun-22	27-Jun-22	-170	
S9-6080	Construction Pile P08-b (ave. 2.5d/nr/rig, 1 rig) Rig 2	3	19-Jan-23	26-Jan-23	27-Jun-22	29-Jun-22	-170	
Box C - Piles	P1-P4 (Footprint inside Road L1)	5	10-Jan-23	16-Jan-23	20-Jun-22	29-Jun-22	-165	
Box C - Piling		5	10-Jan-23	16-Jan-23	20-Jun-22	29-Jun-22	-165	·
S9-6090	Construction Pile P02-a (ave. 2.5d/nr/rig, 1 rig) Rig 2	3	12-Jan-23	14-Jan-23	20-Jun-22	22-Jun-22	-170	·
S9-6160	Construction Pile P02-b (ave. 2.5d/nr/rig, 1 rig) Rig 2	3	13-Jan-23	16-Jan-23	21-Jun-22	23-Jun-22	-170	·
S9-6200	Construction Pile P01-a (ave. 2.5d/m/rig, 1 rig) Rig 2	3	10-Jan-23	12-Jan-23	25-Jun-22	28-Jun-22	-163	
S9-6210	Construction Pile P01-b (ave. 2.5d/nr/rig, 1 rig) Rig 2	3	11-Jan-23	13-Jan-23	27-Jun-22	29-Jun-22	-163	
Box C - Loadir	ng Test	24	31-Jan-23	27-Feb-23	30-Jun-22	28-Jul-22	-173	
S9-5550	Loading Test with Reaction Pile System Setup and Testing	18	31-Jan-23	20-Feb-23	30-Jun-22	21-Jul-22	-173	
S9-5560	Demobilization Plant and Equipment	6	21-Feb-23	27-Feb-23	22-Jul-22	28-Jul-22	-173	
S9-5570	Remove Loading Test Equipment	6	21-Feb-23	27-Feb-23	22-Jul-22	28-Jul-22	-173	
Box Culve	rt C - ELS Installation & Structure Construction	85	16-Jan-23	04-May-23	21-Apr-22	03-Sep-22	-193	
9-5580	Delivery Plants and Equipments (2 sets)	7	16-Jan-23	27-Jan-23	21-Apr-22	28-Apr-22	-221	
9-5590	Sheet Pile Construction	46	28-Jan-23	22-Mar-23	04-Jun-22	28-Jul-22	-193	
9-5600	Excavation and Install Structure to FEL at CH 16-64 (48m)	32	23-Mar-23	04-May-23	29-Jul-22	03-Sep-22	-193	
ction 12A -	Construction	54	22-Mar-23	30-May-23	15-Mar-22			
ection 12A -	Box Culvert A1 (Portion 18A, CH 191-247) 56m (Area Occupied)	54	22-Mar-23	30-May-23	15-Mar-22	23-May-22 23-May-22 28-Mar-22	-301 -301 -301	
	Box Culvert A1 (Portion 18A, CH 191-247) 56m (Area Occupied) Portion 18A - Box Culvert A1 (P15.1 at L1, 56m) - Pre-drilling	54 12 42	22-Mar-23	30-May-23 04-Apr-23		23-May-22 28-Mar-22	-301 -301	
ection 12A - 112A-1040 112A-1050	Box Culvert A1 (Portion 18A, CH 191-247) 56m (Area Occupied) Portion 18A - Box CulvertA1 (P15.1 at L1, 56m) - Pre-drilling Portion 18A - Box CulvertA1 (P15.1 at L1, 56m) - Pre-bored H-pile (56 nrs @ ave 3d/nr/rig, 4 rigs)	12	22-Mar-23 06-Apr-23	30-May-23 04-Apr-23 30-May-23	15-Mar-22 15-Mar-22 29-Mar-22	23-May-22 28-Mar-22 23-May-22	-301	
ection 12A - 12A-1040 112A-1050 ction 12B	Box Culvert A1 (Portion 18A, CH 191-247) 56m (Area Occupied) Portion 18A - Box CulvertA1 (P15.1 at L1, 56m) - Pre-drilling Portion 18A - Box CulvertA1 (P15.1 at L1, 56m) - Pre-bored H-pile (56 nrs @ ave 3d/nr/rig, 4 rigs) - Box Culvert A3 at Portion 18B (Over Underpass of HSITP)	12 42 28	22-Mar-23 06-Apr-23 24-Apr-23	30-May-23 04-Apr-23 30-May-23 27-May-23	15-Mar-22 15-Mar-22 29-Mar-22 11-Apr-22	23-May-22 28-Mar-22 23-May-22 18-May-22	-301 -301 -301 -303	
ection 12A - 12A-1040 12A-1050 ction 12B	Box Culvert A1 (Portion 18A, CH 191-247) 56m (Area Occupied) Portion 18A - Box CulvertA1 (P15.1 at L1, 56m) - Pre-drilling Portion 18A - Box CulvertA1 (P15.1 at L1, 56m) - Pre-bored H-pile (56 nrs @ ave 3d/nr/rig, 4 rigs)	12 42	22-Mar-23 06-Apr-23	30-May-23 04-Apr-23 30-May-23	15-Mar-22 15-Mar-22 29-Mar-22	23-May-22 28-Mar-22 23-May-22	-301 -301 -301	
ection 12A - 12A 1040 12A 1050 Ction 12B ction 12B -	Box Culvert A1 (Portion 18A, CH 191-247) 56m (Area Occupied) Portion 18A - Box CulvertA1 (P15.1 at L1, 56m) - Pre-drilling Portion 18A - Box CulvertA1 (P15.1 at L1, 56m) - Pre-bored H-pile (56 nrs @ ave 3d/nr/rig, 4 rigs) - Box Culvert A3 at Portion 18B (Over Underpass of HSITP)	12 42 28	22-Mar-23 06-Apr-23 24-Apr-23	30-May-23 04-Apr-23 30-May-23 27-May-23	15-Mar-22 15-Mar-22 29-Mar-22 11-Apr-22	23-May-22 28-Mar-22 23-May-22 18-May-22	-301 -301 -301 -303	
ection 12A - 12A-1040 12A-1050 Ction 12B ction 12B - ection 12B -	Box Culvert A1 (Portion 18A, CH 191-247) 56m (Area Occupied) Portion 18A - Box CulvertA1 (P15.1 at L1, 56m) - Pre-drilling Portion 18A - Box CulvertA1 (P15.1 at L1, 56m) - Pre-bored H-pile (56 nrs @ ave 3d/nr/rig, 4 rigs) - Box Culvert A3 at Portion 18B (Over Underpass of HSITP) Construction	12 42 28 28	22-Mar-23 06-Apr-23 24-Apr-23 24-Apr-23	30-May-23 04-Apr-23 30-May-23 27-May-23 27-May-23	15-Mar-22 15-Mar-22 29-Mar-22 11-Apr-22 11-Apr-22	23-May-22 28-Mar-22 23-May-22 18-May-22 18-May-22	-301 -301 -301 -303 -303	
ection 12A - 12A-1040 12A-1050 Ction 12B Ction 12B - ection 12B - 12B-1060	Box Culvert A1 (Portion 18A, CH 191-247) 56m (Area Occupied) Portion 18A - Box CulvertA1 (P15.1 at L1, 56m) - Pre-drilling Portion 18A - Box CulvertA1 (P15.1 at L1, 56m) - Pre-bored H-pile (56 nrs @ ave 3d/nr/rig, 4 rigs) - Box Culvert A3 at Portion 18B (Over Underpass of HSITP) Construction Box Culvert A3 (Portion 18B, CH 158-191) 33m (Area Occupied) Portion 18B - MS Box Culvert A3 Preparation & Submit (14d), PM Review (28d), Resubmit (14d), Approval (28d)	12 42 28 28 28 28	22-Mar-23 06-Apr-23 24-Apr-23 24-Apr-23 24-Apr-23	30-May-23 04-Apr-23 30-May-23 27-May-23 27-May-23	15-Mar-22 15-Mar-22 29-Mar-22 11-Apr-22 11-Apr-22 11-Apr-22	23-May-22 28-Mar-22 23-May-22 18-May-22 18-May-22 18-May-22	-301 -301 -301 -303 -303 -303	
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ection 12A - 12A 1040 12A 1050 Ction 12B ction 12B - ection 12B - 12B 1060 Ction 12C ction 12C -	Box Culvert A1 (Portion 18A, CH 191-247) 56m (Area Occupied) Portion 18A - Box CulvertA1 (P15.1 at L1, 56m) - Pre-drilling Portion 18A - Box CulvertA1 (P15.1 at L1, 56m) - Pre-bored H-pile (56 nrs @ ave 3d/nr/rig, 4 rigs) - Box Culvert A3 at Portion 18B (Over Underpass of HSITP) Construction Box Culvert A3 (Portion 18B, CH 158-191) 33m (Area Occupied) Portion 18B - MS Box Culvert A3 Preparation & Submit (14d), PM Review (28d), Resubmit (14d), Approval (28d) - Road L1 and Box Culvert A1 at Portion 18C Construction	12 42 28 28 28 28 28 28 28 116	22-Mar-23 06-Apr-23 24-Apr-23 24-Apr-23 24-Apr-23 24-Apr-23 20-Jul-22 A	30-May-23 04-Apr-23 30-May-23 27-May-23 27-May-23 27-May-23 27-May-23 27-May-23 27-May-23	15-Mar-22 15-Mar-22 29-Mar-22 11-Apr-22 11-Apr-22 11-Apr-22 11-Apr-22 25-Dec-21 25-Dec-21	23-May-22 28-May-22 23-May-22 18-May-22 18-May-22 18-May-22 18-May-22 18-May-22 11-Nov-26	-301 -301 -303 -303 -303 -303 -303 492 492	
ection 12A - 12A 1040 12A 1050 Ction 12B ction 12B - ection 12B - 12B 1060 Ction 12C ction 12C -	Box Culvert A1 (Portion 18A, CH 191-247) 56m (Area Occupied) Portion 18A - Box CulvertA1 (P15.1 at L1, 56m) - Pre-drilling Portion 18A - Box CulvertA1 (P15.1 at L1, 56m) - Pre-bored H-pile (56 nrs @ ave 3d/nr/rig, 4 rigs) - Box Culvert A3 at Portion 18B (Over Underpass of HSITP) Construction Box Culvert A3 (Portion 18B, CH 158-191) 33m (Area Occupied) Portion 18B - MS Box Culvert A3 Preparation & Submit (14d), PM Review (28d), Resubmit (14d), Approval (28d) - Road L1 and Box Culvert A1 at Portion 18C	12 42 28 28 28 28 28 28 28 116	22-Mar-23 06-Apr-23 24-Apr-23 24-Apr-23 24-Apr-23 24-Apr-23 24-Apr-23 20-Jul-22 A	30-May-23 04-Apr-23 30-May-23 27-May-23 27-May-23 27-May-23 27-May-23 27-May-23	15-Mar-22 15-Mar-22 29-Mar-22 11-Apr-22 11-Apr-22 11-Apr-22 11-Apr-22 25-Dec-21	23-May-22 28-Mar-22 23-May-22 18-May-22 18-May-22 18-May-22 18-May-22 18-May-22	-301 -301 -301 -303 -303 -303 -303 492	
ection 12A - 12A 1040 12A 1050 Ction 12B - ection 12B - 12B 1060 Ction 12C - ection 12C - ection 12C - ection 12C -	Box Culvert A1 (Portion 18A, CH 191-247) 56m (Area Occupied) Portion 18A - Box CulvertA1 (P15.1 at L1, 56m) - Pre-drilling Portion 18A - Box CulvertA1 (P15.1 at L1, 56m) - Pre-bored H-pile (56 nrs @ ave 3d/nr/rig, 4 rigs) - Box Culvert A3 at Portion 18B (Over Underpass of HSITP) Construction Box Culvert A3 (Portion 18B, CH 158-191) 33m (Area Occupied) Portion 18B - MS Box Culvert A3 Preparation & Submit (14d), PM Review (28d), Resubmit (14d), Approval (28d) - Road L1 and Box Culvert A1 at Portion 18C Construction Road L1 - Portion18C (CH 1170 to 1430) 260m - Submissions	12 42 28 28 28 28 28 28 28 116	22-Mar-23 06-Apr-23 24-Apr-23 24-Apr-23 24-Apr-23 24-Apr-23 20-Jul-22 A	30-May-23 04-Apr-23 30-May-23 27-May-23 27-May-23 27-May-23 27-May-23 27-May-23 27-May-23	15-Mar-22 15-Mar-22 29-Mar-22 11-Apr-22 11-Apr-22 11-Apr-22 11-Apr-22 25-Dec-21 25-Dec-21	23-May-22 28-May-22 23-May-22 18-May-22 18-May-22 18-May-22 18-May-22 18-May-22 11-Nov-26	-301 -301 -303 -303 -303 -303 -303 492 492 492 492 492	
action 12A - 12A - 1040 12A - 1050 action 12B - action 12C -	Box Culvert A1 (Portion 18A, CH 191-247) 56m (Area Occupied) Portion 18A - Box CulvertA1 (P15.1 at L1, 56m) - Pre-drilling Portion 18A - Box CulvertA1 (P15.1 at L1, 56m) - Pre-bored H-pile (56 nrs @ ave 3d/nr/rig, 4 rigs) - Box Culvert A3 at Portion 18B (Over Underpass of HSITP) Construction Box Culvert A3 (Portion 18B, CH 158-191) 33m (Area Occupied) Portion 18B - MS Box Culvert A3 Preparation & Submit (14d), PM Review (28d), Resubmit (14d), Approval (28d) - Road L1 and Box Culvert A1 at Portion 18C Construction Road L1 - Portion18C (CH 1170 to 1430) 260m - Submissions	12 42 28 28 28 28 116 116	22-Mar-23 06-Apr-23 24-Apr-23 24-Apr-23 24-Apr-23 24-Apr-23 20-Jul-22 A 20-Jul-22 A	30-May-23 04-Apr-23 30-May-23 27-May-23 27-May-23 27-May-23 27-May-23 27-May-23 27-May-23	15-Mar-22 15-Mar-22 29-Mar-22 11-Apr-22 11-Apr-22 11-Apr-22 11-Apr-22 25-Dec-21 25-Dec-21	23-May-22 28-Mar-22 23-May-22 18-May-22 18-May-22 18-May-22 18-May-22 11-Nov-26 11-Nov-26	-301 -301 -301 -303 -303 -303 -303 492 492 492	
ection 12A - 12A 1040 12A 1050 Ction 12B Ction 12B - 12B 1060 Ction 12C - 12B 1060 Ction 12C - Ction 12B - Ction 12C - Ction 1	Box Culvert A1 (Portion 18A, CH 191-247) 56m (Area Occupied) Portion 18A - Box CulvertA1 (P15.1 at L1, 56m) - Pre-drilling Portion 18A - Box CulvertA1 (P15.1 at L1, 56m) - Pre-bored H-pile (56 nrs @ ave 3d/nr/rig, 4 rigs) - Box Culvert A3 at Portion 18B (Over Underpass of HSITP) Construction Box Culvert A3 (Portion 18B, CH 158-191) 33m (Area Occupied) Portion 18B - MS Box Culvert A3 Preparation & Submit (14d), PM Review (28d), Resubmit (14d), Approval (28d) - Road L1 and Box Culvert A1 at Portion 18C Construction Road L1 - Portion18C (CH 1170 to 1430) 260m - Submissions	12 42 28 28 28 28 116 116 96	22-Mar-23 (06-Apr-23 24-Apr-23 24-Apr-23 24-Apr-23 24-Apr-23 20-Jul-22 A 20-Jul-22 A 20-Jul-22 A 20-Jul-22 A	30-May-23 04-Apr-23 30-May-23 27-May-23 27-May-23 27-May-23 27-May-23 27-May-23 27-May-23 27-May-23 27-May-23 06-Apr-23	15-Mar-22 15-Mar-22 29-Mar-22 11-Apr-22 11-Apr-22 11-Apr-22 25-Dec-21 25-Dec-21 25-Dec-21 25-Dec-21	23-May-22 28-May-22 23-May-22 18-May-22 18-May-22 18-May-22 18-May-22 11-Nov-26 11-Nov-26 11-Nov-26	-301 -301 -303 -303 -303 -303 -303 492 492 492 492 492 -	
ection 12A - 12A 1040 12A 1050 Ction 12B - ection 12B - 12B 1060 Ction 12C - ction 12C - ection 12C - ection 12C - f12C Road L1 Road L1 - PW S12C-1013 S12C-1014	Box Culvert A1 (Portion 18A, CH 191-247) 56m (Area Occupied) Portion 18A - Box Culvert A1 (P15.1 at L1, 56m) - Pre-drilling Portion 18A - Box Culvert A1 (P15.1 at L1, 56m) - Pre-bored H-pile (56 nrs @ ave 3d/nr/rig, 4 rigs) - Box Culvert A3 at Portion 18B (Over Underpass of HSITP) Construction Box Culvert A3 (Portion 18B, CH 158-191) 33m (Area Occupied) Portion 18B - MS Box Culvert A3 Preparation & Submit (14d), PM Review (28d), Resubmit (14d), Approval (28d) - Road L1 and Box Culvert A1 at Portion 18C Construction Road L1 - Portion18C (CH 1170 to 1430) 260m - Submissions Is Isued PMI No. 052 - PM Review and Reply Isue PMN for PMI052	12 42 28 28 28 28 28 12 28 12 28 116 116 116 96 96	22-Mar-23 06-Apr-23 24-Apr-23 24-Apr-23 24-Apr-23 24-Apr-23 20-Jul-22 A 20-Jul-22 A 20-Jul-22 A 20-Jul-22 A	30-May-23 04-Apr-23 30-May-23 27-May-23 27-May-23 27-May-23 27-May-23 27-May-23 27-May-23 27-May-23 06-Apr-23 06-Apr-23	15-Mar-22 15-Mar-22 29-Mar-22 11-Apr-22 11-Apr-22 11-Apr-22 11-Apr-22 25-Dec-21 25-Dec-21 25-Dec-21 25-Dec-21 06-Jan-22	23-May-22 28-May-22 23-May-22 18-May-26 11-Nov-26	-301 -301 -303 -303 -303 -303 -303 -303	
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Quatation Preparation and Submission Issued PMI No. 067 - PM Review and Repty Issued PMI No. 068 - PM Review and Repty Issued PMI No. 068 - PM Review and Repty Issued PMI No. 068 - PM Review and Repty Issued PMI No. 068 - PM Review and Repty Issued PMI No. 068 - PM Review and Acceptance (Precast Concrete Pipe and Fittings) Temporary Works Design PM Review andAcceptance (Road L1 Trench Excavation 2m,3m depth) Temporary Works Design PM Review andAcceptance (Road L1 Trench Excavation 4m,5m depth) Temporary Works Design PM Review andAcceptance (Road L1 Trench Excavation 4m,5m depth)</td> <td>12 42 28 21 21 21 21 21 21 21 21 21 15 18 6 14 21 21 22 23 24 25 26 21 22 23 24</td> <td>22-Mar-23 06-Apr-23 24-Apr-23 24-Apr-23 24-Apr-23 24-Apr-23 20-Jul-22A 20-Jul-22A 20-Jul-22A 20-Jul-22A 20-Jul-22A 17-Sep-22A 15-Jan-23 19-Sap-22A 03-Oct-22A 19-Sap-22A 03-Oct-22A 19-Sap-22A 03-Oct-22A 19-Sap-22A 03-Oct-22A 19-Sap-22A 03-Oct-22A 19-Sap-22A 03-Oct-22A 19-Sap-22A 03-Oct-22A 19-Sap-22A 03-Oct-22A 19-Sap-22A 03-Oct-22A 19-Sap-22A 03-Oct-22A 19-Sap-22A 03-Oct-22A 19-Sap-22A 19-Sap-22A 03-Oct-22A 19-Sap-22A 03-Oct-22A 19-Sap-22A 03-Oct-22A 19-Sap-22A 19-Sap-22A 19-Sap-22A 19-Sap-22A 19-Sap-22A 19-Sap-22A 19-Sap-22A 19-Sap-22A 19-Sap-22A 19-Sap-22A 19-Sap-22A 19-Jan-23 10-Feb-23 10-Feb-24</td> <td>30-May-23 04-Apr-23 30-May-23 27-May-23 28-Jan-23 06-Apr-23 06-Apr-23 06-Jan-23 06-Jan-23</td> <td>15-Mar-22 15-Mar-22 23-Mar-22 11-Apr-22 11-Apr-22 11-Apr-22 25-Dec-21 26-Oct-26 28-Oct-26 25-Dec-21 06-Jan-22 07-Feb-21 08-Jan-22 15-Jan-22 15-Jan-22 20-Jan-22 20-Jan-22 10-Feb-22 21-Jan-22 11-Jan-22 12-Jan-22 13-Jan-22</td> <td>23-May-22 23-May-22 23-May-22 18-May-22 18-May-22 18-May-22 18-May-22 18-May-22 18-May-22 18-May-22 18-May-22 18-May-22 11-Nov-26 11-Nov-26 11-Nov-26 11-Nov-26 10-Jan-22 10-Jan-22 27-Oct-26 10-Jan-22 27-Dec-21 10-Jan-22 11+Ajan-22 11+Ajan-22 11+Ajan-22 11+Ajan-22 11+Ajan-22 10+Feb-22 <</td> <td>-301 -301 -303 -303 -303 -303 -303 -303</td> <td></td>	Box Culvert A1 (Portion 18A, CH 191-247) 56m (Area Occupied) Portion 18A - Box Culvert A1 (P151 at L1, 56m) - Pre-bored H-pile (56 ms @ ave 3dm/rig, 4 rigs) - Box Culvert A3 at Portion 18B (Over Underpass of HSITP) Construction Box Culvert A3 (Portion 18B, CH 158-191) 33m (Area Occupied) Portion 18B - MS Box Culvert A3 Preparation & Submit (14d), PM Review (28d), Resubmit (14d), Approval (28d) - Road L1 and Box Culvert A1 at Portion 18C Construction Road L1 - Portion18C (CH 1170 to 1430) 260m - Submissions Its Issued PMI No. 052 - PM Review and Repty Issued PMI No. 056 - PM Review and Repty Issued PMI No. 066 - Quatation Preparation and Submission Issued PMI No. 067 - PM Review and Repty Issued PMI No. 068 - PM Review and Repty Issued PMI No. 068 - PM Review and Repty Issued PMI No. 068 - PM Review and Repty Issued PMI No. 068 - PM Review and Repty Issued PMI No. 068 - PM Review and Acceptance (Precast Concrete Pipe and Fittings) Temporary Works Design PM Review andAcceptance (Road L1 Trench Excavation 2m,3m depth) Temporary Works Design PM Review andAcceptance (Road L1 Trench Excavation 4m,5m depth) Temporary Works Design PM Review andAcceptance (Road L1 Trench Excavation 4m,5m depth)	12 42 28 21 21 21 21 21 21 21 21 21 15 18 6 14 21 21 22 23 24 25 26 21 22 23 24	22-Mar-23 06-Apr-23 24-Apr-23 24-Apr-23 24-Apr-23 24-Apr-23 20-Jul-22A 20-Jul-22A 20-Jul-22A 20-Jul-22A 20-Jul-22A 17-Sep-22A 15-Jan-23 19-Sap-22A 03-Oct-22A 19-Sap-22A 03-Oct-22A 19-Sap-22A 03-Oct-22A 19-Sap-22A 03-Oct-22A 19-Sap-22A 03-Oct-22A 19-Sap-22A 03-Oct-22A 19-Sap-22A 03-Oct-22A 19-Sap-22A 03-Oct-22A 19-Sap-22A 03-Oct-22A 19-Sap-22A 03-Oct-22A 19-Sap-22A 03-Oct-22A 19-Sap-22A 19-Sap-22A 03-Oct-22A 19-Sap-22A 03-Oct-22A 19-Sap-22A 03-Oct-22A 19-Sap-22A 19-Sap-22A 19-Sap-22A 19-Sap-22A 19-Sap-22A 19-Sap-22A 19-Sap-22A 19-Sap-22A 19-Sap-22A 19-Sap-22A 19-Sap-22A 19-Jan-23 10-Feb-23 10-Feb-24	30-May-23 04-Apr-23 30-May-23 27-May-23 28-Jan-23 06-Apr-23 06-Apr-23 06-Jan-23	15-Mar-22 15-Mar-22 23-Mar-22 11-Apr-22 11-Apr-22 11-Apr-22 25-Dec-21 26-Oct-26 28-Oct-26 25-Dec-21 06-Jan-22 07-Feb-21 08-Jan-22 15-Jan-22 15-Jan-22 20-Jan-22 20-Jan-22 10-Feb-22 21-Jan-22 11-Jan-22 12-Jan-22 13-Jan-22	23-May-22 23-May-22 23-May-22 18-May-22 18-May-22 18-May-22 18-May-22 18-May-22 18-May-22 18-May-22 18-May-22 18-May-22 11-Nov-26 11-Nov-26 11-Nov-26 11-Nov-26 10-Jan-22 10-Jan-22 27-Oct-26 10-Jan-22 27-Dec-21 10-Jan-22 11+Ajan-22 11+Ajan-22 11+Ajan-22 11+Ajan-22 11+Ajan-22 10+Feb-22 <	-301 -301 -303 -303 -303 -303 -303 -303	

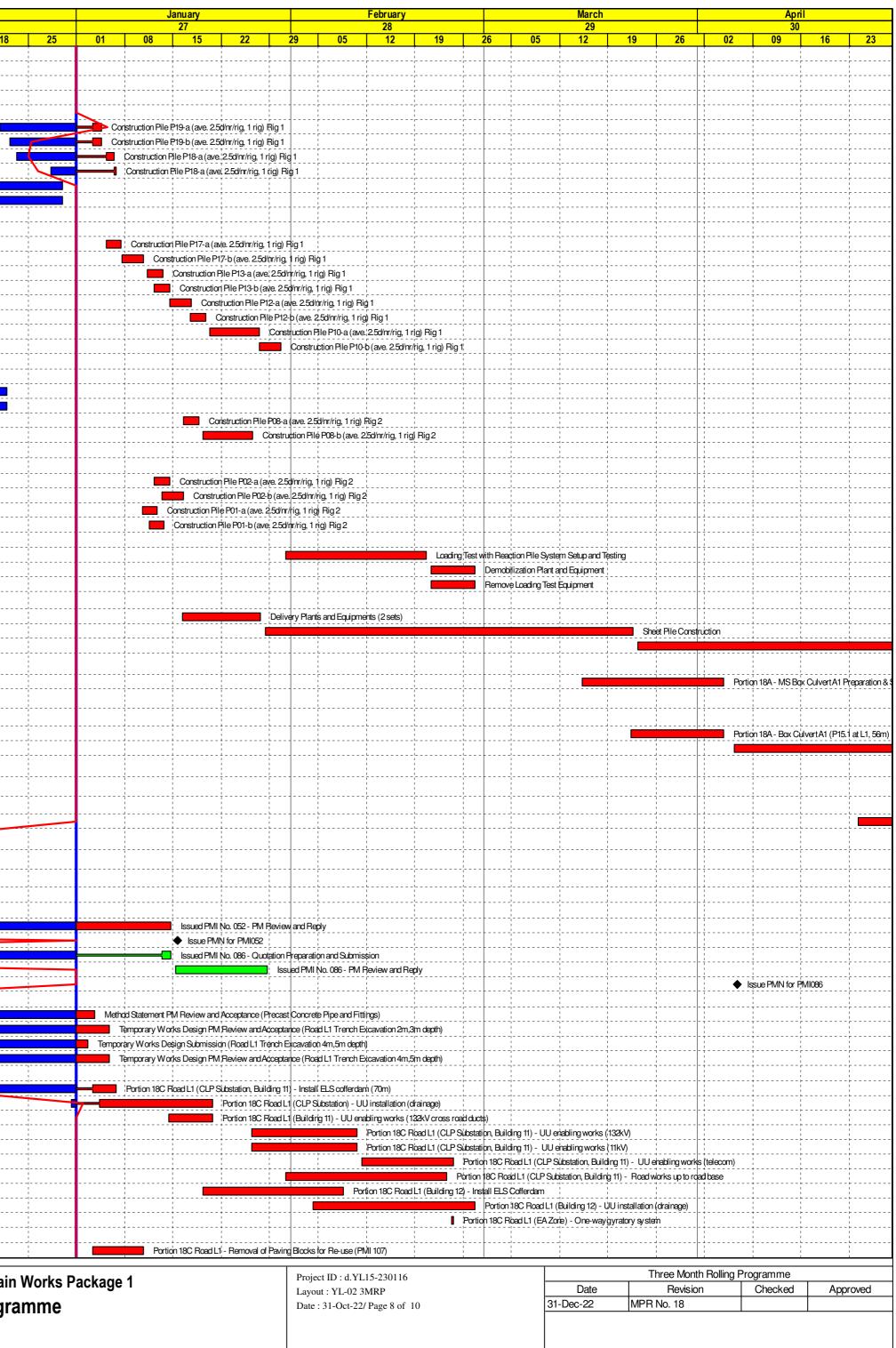


Remaining Work

Critical Remaining Work

♦♦ Milestone

Three Month Rolling Programme



Activity ID	Activity Name	Orig	Early Start	Early Finish	Late Start	Late Finish	Total Float	December January 26 27	February March April 28 29 30
S12C-5760	Portion 18C Road L1 (Bldg 8) - UU enabling works (towngas)	12	11-Feb-23	24-Feb-23	07-Feb-22	19-Feb-22	-299		29 05 12 19 26 05 12 19 26 02 09 16 23 Portion 18C Road L1 (Bldg 8) - UU enabling works (townges)
S12C-5770	Portion 18C Road L1 - TTA Diversion	12	28-Feb-23	24-Feb-23 28-Feb-23	21-Feb-22	21-Feb-22	-299		Portion 18C Read L1 (Blog 8) - UU enabling works (towngas)
S12C-5790	Portion 18C Road L1 (Bldg 8) - UU installation (drainage, sewerage)	20	01-Mar-23	23-Mar-23	22-Feb-22	16-Mar-22	-301		Portion 18C Road L1 (Bldg 8) - UU installation (drainage, sewerage
S12C-5800	Portion 18C Road L1 (Bldg 8) - UU enabling works (132kV cross road ducts)	12	13-Mar-23	25-Mar-23	17-Mar-22	30-Mar-22	-291		Portion 18C; Road L1 (Bldg/8) - UU enabling works (132kV cros
S12C-5810 S12C-5815	Portion 18C Road L1 (Bldg 8) - UU enabling works (11kV) Portion 18C Road L1 (Bldg 9) - UU enabling works (towngas)	12	13-Mar-23 13-Mar-23	25-Mar-23 25-Mar-23	31-Mar-22 31-Mar-22	14-Apr-22 14-Apr-22	-279 -279		Portion 18C Road L1 (Bldg/8) - UU enabling works (11kγ) Portion 18C Road L1 (Bldg/9) - UU enabling works (towngas)
S12C-5850	Portion 18C Road L1 (Bldg 8 & 9) - UU installation (fresh watermain)	57	11-Feb-23	22-Apr-23	07-Feb-22	14-Apr-22	-299		
S12C-5880	Portion 18C Road L1 (Bldg 8 & 9) - UU installation (drainage, sewerage)	24	24-Mar-23	25-Apr-23	17-Mar-22	14-Apr-22	-301		
S12C-5890 S12C-5900	Portion 18C Road L1 (Bldg 8 & 9) - UU enabling works (132kV cross road ducts)	12	12-Apr-23 26-Apr-23	25-Apr-23 27-May-23	31-Mar-22 19-Apr-22	14-Apr-22 20-May-22	-301		
S12C-5930	Portion 18C Road L1 (Bldg 8 & 9) - UU enabling works (132kV and 11kV) Portion 18C Road L1 - Construction of Deck (over Box A1 at Road L1)	6	20-Apr-23	27-11/1ay-23 14-Apr-23	19-Api-22 14-Jul-22	20-1viay-22 20-Jul-22	-216		Portion 18C Read L1
	ce with HSITP Contractor	60	01-Mar-23	15-May-23	21-Oct-22	31-Dec-22	-105		
S12C-3355	Interface Portion 17B - Excavation Works (Depth at 10m from Existing Level)	60	01-Mar-23	15-May-23*	21-Oct-22	31-Dec-22	-105		
S12C-3365	Interface Portion 17C & 17D - Excavation Works (Depth at 2m from Existing Level)	60	01-Mar-23	15-May-23*	21-Oct-22	31-Dec-22	-105		
Section 12D	- Ground Treatment Works and Site Formation at Portion 18D (Are	176	13-Dec-21 A	18-Apr-23	30-Jan-22	22-Sep-22	-79		
S12D-1086	Area Occupied	370	24-Feb-22 A	28-Feb-23	30-Jan-22	29-Mar-22			Area Occupied
S12D-1090 S12D-1100	Portion 18D - Level Ground (8,970m3) Portion 18D - Instrumentation Installation Type C1 (MPX 6 nrs @ ave 3d/nr/rig, 4 rigs)	9	31-Mar-23 13-Dec-21 A	14-Apr-23 14-Apr-23	29-Apr-22 13-Sep-22	11-May-22 19-Sep-22	-274 -165		Portion 18D - Level G
S12D-1100	Portion 18D - Instrumentation Installation Type C1 (WIP 12 nrs @ ave 6d/nr/rig, 4 rigs)	58	15-Dec-21A 15-Dec-21A	14-Apr-23	13-Sep-22 10-Sep-22	19-Sep-22 19-Sep-22	-165		Portion 18D - Instrum
S12D-1120	Portion 18D - Instrumentation Installation Type C1 (SP 6 nrs @ ave 3d/nr/rig, 4 rigs)	56	16-Dec-21 A	14-Apr-23	13-Sep-22	19-Sep-22	-165		Portion 18D - Instrum
S12D-1130	Portion 18D - Instrumentation Installation Type C1 (SSM 6 nrs)	4	11-Apr-23	14-Apr-23	15-Sep-22	19-Sep-22	-165		Portion 18D - Instrum
S12D-1135	Portion 18D - Formation (6,732m3 @ ave 900m3/d)	6	04-Apr-23	14-Apr-23	13-Sep-22	19-Sep-22	-165		Portion 18D - Format
S12D-1140	Portion 18D - Granular Fill (8,980m3 @ 1,500m3/d)	45	11-Apr-23 27-Oct-22 A	18-Apr-23	15-Sep-22 06-Feb-21	22-Sep-22 26-Oct-22	-165 -53		Portion 18D -
	Ground Treatment Works and Site Formation at Portion 21								
S13-1060 S13-1070	Portion 21 - Construct DCM Clusters (DCM4, DCM7, DCM5 see Section 6) Portion 21 - General Fill (6,520m3 @ 300m3/d)	88	27-Oct-22 A 03-Mar-23	11-Feb-23 11-Mar-23	06-Feb-21 17-Oct-22	10-Apr-21 26-Oct-22	-543		Portion 21 - General Fill (6.520m3 @ 300m3(d)
	1 - Ground Treatment Works and Site Formation at Portion 15.1 (An		13-Dec-21 A	14-Jun-23	28-Dec-21	11-Jun-22	-135		
SI5.1-1105	Area Occupied	370	24-Feb-22 A	28-Feb-23	28-Dec-21	25-Feb-22			
S15.1-110	Portion 15.1 - PVD Installation (286,807m @ 2,000m/day/rig - 2 rigs)	84	13-Dec-21 A	31-Mar-23	25-Feb-22	23-1 e0-22 28-Mar-22	-368		Area Occupied Portion 15.1 - PVD Installation (286.807m @ 2.000
S15.1-1120	Portion 15.1 - General Fill to Surcharge 2m High (39,140m3 @ 600m3/d)	58	01-Apr-23	14-Jun-23	28-Mar-22	11-Jun-22	-298		
Section 15.	2 - Ground Treatment Works and Site Formation at Portion 15.2 (An	185	24-Feb-22 A	15-Jul-23	28-Dec-21	15-Jul-23	0		
S15.2-1030	Portion 15.2 - MS Earthwork Preparation, Submission, & Approval	78	24-Mar-23	30-Jun-23	22-Mar-22	28-Jun-22	-297		
S15.2-1138	Area Occupied	370	24-Feb-22 A	28-Feb-23	28-Dec-21	24-Feb-22	-369		Area Occupied
S15.2-1380	Portion 15.2 - Stockpile Re-use of Material (PS 1.129 (2l)) (200,000 m3@ 1,800m3/d)	120	17-Feb-23	15-Jul-23	17-Feb-23	15-Jul-23	0		
Section 15.2	2a - Ground Treatment Works and Site Formation at Portion 15.2a (139	29-Jan-22 A	29-Jun-23	07-Mar-22	25-Jul-22	-127		
S15.2a-1085	Area Occupied	370	24-Feb-22 A	28-Feb-23	07-Mar-22	04-May-22			Area Occupied
S15.2a-1090	Portion 15.2a - Instrumentation Installation Type C1 (SSM 7 nrs)	34 370	29-Jan-22 A 11-Feb-22 A	29-Jun-23 27-May-23	04-Jul-22 15-Feb-22	25-Jul-22 11-Jul-22	-274 -320		
	2b - Ground Treatment Works and Site Formation at Portion 15.2b (<u></u>
S15.2b-1105 S15.2b-1110	Area Occupied Portion 15.2b - PVD Installation (206,250m @ 2,000m/day/rig - 2 rigs)	370	24-Feb-22 A 11-Feb-22 A	28-Feb-23 27-May-23	15-Feb-22 14-Jun-22	14-Apr-22 11-Jul-22	-320 -320		Area Occupied
	3 - Ground Treatment Works and Site Formation at Portion 15.3 (An		13-Dec-21A	27-May-23 24-May-23	14-Jun-22 23-May-22	11-Jul-22 28-Nov-22	-320		
Section 15.	Area Occupied	370		28-Feb-23	23-May-22	20-Jul-22	-223		
S15.3-1035 S15.3-1060	Area Occupied Portion 15.3 - Instrumentation Installation Type C1 (MPX 7 nrs @ ave 3d/nr/rig, 4 rigs)	370	24-Feb-22 A 31-Dec-21 A	28-Fe0-23 11-Apr-23	23-May-22 19-Sep-22	20-Jul-22 24-Sep-22	-223		Area Occupied
S15.3-1070	Portion 15.3 - Instrumentation Installation Type C1 (VMP 14 nrs @ ave 6d/nr/rig, 4 rigs)	95	13-Dec-21 A	24-May-23	11-Oct-22	28-Nov-22	-140		
S15.3-1080	Portion 15.3 - Instrumentation Installation Type C1 (SP 7 nrs @ ave 3d/nr/rig, 4 rigs)	58	14-Dec-21 A	11-Apr-23	11-Oct-22	17-Oct-22	-140		Portion 15.3 - Instrumentation
S15.3-1090	Portion 15.3 - Instrumentation Installation Type C1 (SSM 7 nrs)	6	12-Apr-23	18-Apr-23	18-Oct-22	24-Oct-22	-140		Portion 15.3
S15.3-1100 S15.3-1110	Portion 15.3 - Instrumentation Installation Type C3 (Inc 7 nrs @ ave 3d/nr/rig, 4 rigs) Portion 15.3 - Instrumentation Installation Type C3 (SM182-7nrs, SMM-7nrs)	4	14-Apr-23 14-Apr-23	18-Apr-23 18-Apr-23	20-Oct-22 20-Oct-22	24-Oct-22 24-Oct-22	-140		Portion 15.3
S15.3-1115	Portion 15.3 - Formation (6,732m3 @ ave 900m3/d)	7	19-Apr-23	26-Apr-23	25-Oct-22	01-Nov-22	-140		
Section 15.4	4 - Ground Treatment Works and Site Formation at Portion 15.4 (An	187	20-Dec-21A	24-May-23	21-Dec-21	02-Jul-22	-120		
S15.4-1035	AreaOccupied	370	22-Feb-22 A	28-Feb-23	21-Dec-21	17-Feb-22	-376		Area Occupied
S15.4-1040	Portion 15.4 - Level Ground (13,260m3)	42	31-Mar-23	24-May-23	13-May-22	02-Jul-22	-264		
S15.4-1050	Portion 15.4 - CPT (7 nrs @ ave 10nrs/d/rig, 1 rig)	48	28-Dec-21 A	11-Apr-23	13-May-22	19-May-22	-264		Portion 15.4 - CPT (7 nrs @
S15.4-1060	Portion 15.4 - Instrumentation Installation Type C1 (MPX 30 nrs @ ave 3d/nr/rig, 12 rigs)	68	23-Dec-21A	26-Apr-23	14-Mar-22	11-Apr-22	-305	· · · · · · · · · · · · · · · · · · ·	
S15.4-1070 S15.4-1080	Portion 15.4 - Instrumentation Installation Type C1 (VMP 60 nrs @ ave 6d/nr/rig, 12 rigs) Portion 15.4 - Instrumentation Installation Type C1 (SP 30 nrs @ ave 3d/nr/rig, 12 rigs)	71	20-Dec-21A 22-Dec-21A	26-Apr-23 09-May-23	14-Mar-22 14-Mar-22	11-Apr-22 26-Apr-22	-305	······	
	5 - Ground Treatment Works and Site Formation at Portion 15.5 (An	197	23-Dec-21A	21-Jun-23	22-Dec-21	16-Jun-22	-136		
S15.5-1025	Area Occupied	370	24-Feb-22 A	28-Feb-23	22-Dec-21	18-Feb-22	-375		Area Occupied
S15.5-1030	Portion 15.5 - MS Earthwork Preparation, Submission, & Approval	60	11-Apr-23	21-Jun-23	31-Mar-22	16-Jun-22	-375		
S15.5-1080	Portion 15.5 - Instrumentation Installation Type C1 (SP 13nrs @ ave 3d/nr/rig, 8 rigs)	49	23-Dec-21A	03-Apr-23	05-Mar-22	24-Mar-22	-303		Portion 15.5 - Instrumentation Installation Typ
S15.5-1090	Portion 15.5 - Instrumentation Installation Type C1 (SSM 13nrs)	5	29-Mar-23	03-Apr-23	19-Mar-22	24-Mar-22	-303		Portion 15.5 - Instrumentation Installation Typ
S15.5-1095	Portion 15.5 - Formation (40,356 m3 @ ave 900m3/d) Portion 15.5 - Granular Fill (17,400m3 @ 1,800m3/d)	10	04-Apr-23	19-Apr-23	25-Mar-22	06-Apr-22	-303		Portion 15.
S15.5-1100		12 370	20-Apr-23 24-Feb-22 A	04-May-23 28-Feb-23	07-Apr-22 20-Sep-22	23-Apr-22 17-Nov-22	-303 -103		{
	6a - Ground Treatment Works and Site Formation at Portion 15.6a (
S15.6a-0900	Area Occupied	370	24-Feb-22 A 24-Feb-22 A	28-Feb-23 30-May-23	20-Sep-22 18-Nov-22	17-Nov-22 10-May-23	-103		Area Occupied
	7a - Ground Treatment Works and Site Formation at Portion 15.7a (070					4		
S15.7a-0900 S15.7a-1000	Area Occupied Portion 15.7a - Site Clearance and Preparation Works (Ecological survey, Tree Survey)	370	24-Feb-22 A 31-Mar-23	28-Feb-23 11-Apr-23	18-Nov-22 15-Feb-23	15-Jan-23 21-Feb-23	-44		Area Occupied
S15.7a-1040	Portion 15.7a - Level Ground (64,890m3)	40	12-Apr-23	30-May-23	20-Mar-23	10-May-23	-30		
S15.7a-1050	Portion 15.7a - CPT (4 nrs @ ave 10nrs/d/rig, 1 rig)	1	12-Apr-23	12-Apr-23	20-Mar-23	20-Mar-23	-16		Portion 15.7a - CPT (4 ms
S15.7a-1060	Portion 15.7a - Instrumentation Installation Type C1 (MPX 16 nrs @ ave 3d/nr/rig, 8 rigs)	6	12-Apr-23	18-Apr-23	22-Feb-23	28-Feb-23	-38		Portion 15.7a
S15.7a-1070	Portion 15.7a - Instrumentation Installation Type C1 (VMP 32 nrs @ ave 6d/nr/rig, 8 rigs)	24	12-Apr-23	10-May-23	22-Feb-23	21-Mar-23	-38		
	7b - Ground Treatment Works and Site Formation at Portion 15.7b (24-Feb-22 A	28-Feb-23	22-Nov-22	19-Jan-23	-40		
S15.7b-0900	Area Occupied		24-Feb-22 A	28-Feb-23	22-Nov-22	19-Jan-23	-40		Area Occupied
	8 - Reed Bed Area (Area Occupied)	370	24-Feb-22 A	28-Feb-23	15-Feb-22	14-Apr-22	-320		
S15.8-1000	Area Occupied	370	24-Feb-22 A	28-Feb-23	15-Feb-22	14-Apr-22	-320		Area Occupied
	Ι	1							
	PaulY Actual Level of Effort			(Contract	YL/2020/0	1 - Lok	Ma Chau Loop Main Works Package 1	Project ID : d.YL15-230116 Three Month Rolling Programme Layout : YL-02 3MRP Date Revision Checked Approved
H	Actual Work Demoining Work							h Rolling Programme	Layout : YL-02 3MRP Date Revision Checked Approved Date : 31-Oct-22/ Page 9 of 10 31-Dec-22 MPR No. 18 Image: MPR No. 18 Image: MPR No. 18
中国领	Bendly IV Image: Critical Remaining Work Image: Critical Remaining Work					111166			
CRCC	- Kwan Lee - Pall Y JV								
	◆ Milestone								



ctivity ID	Activity Name	Orig	Early Start	Early Finish	Late Start	Late Finish	Total		Decem	nber				anuary				February				Marc	h			Apri	l
		Dur					Float		26					27				28				29				30	
								04	11	18	25	01	08	15	22	29	05	12	19	26	05	12	19	26	02	09	16 2
Section 16 -	Works Not Covered by Other Sections of the Works (Area Occupie	171	09-Nov-21 A	20-May-23	25-Oct-23	08-Mar-25	256					\										- - -				1	1
S16 Portion 9) of the Site - North Meander	171	09-Nov-21 A	20-May-23	25-Oct-23	11-Mar-24	115							1			1		 		1						1
S16-1035	AreaOccupied	372	22-Feb-22 A	28-Feb-23	25-Oct-23	22-Dec-23	297		-		-			+	+ +		+	+	.	Are	a Occupied	- 	1	;	· · · · · · · · · · · · · · · · · · ·		 I I
S16-1050	Portion 9 - Instrumentation Installation Type C2 (INC 9 nrs @ 3d/nr/rig, 1 rig)	99	09-Nov-21 A	20-May-23	21-Feb-24	11-Mar-24	240								+		+								++		
S16 Portion 1	5.6b of the Site	370	24-Feb-22 A	28-Feb-23	08-Jan-25	08-Mar-25	738											 				-					
S16-1011	Area Occupied	370	24-Feb-22 A	28-Feb-23	08-Jan-25	08-Mar-25	738													<u> </u>	a Occupied	1				1	
Section 20 -	Ground Treatment Works and Site Formation at Portion 15.6b (Are	155	24-Feb-22 A	02-May-23	01-Apr-23	27-Jul-23	34																			1	1
Section 20 - 0	Ground Treatment Works at Portion 15.6b	155	24-Feb-22 A	02-May-23	01-Apr-23	27-Jul-23	34						 				 - - - - - - - - - - - - - - - -		 			 					
S20-0900	AreaOccupied	370	24-Feb-22 A	28-Feb-23	01-Apr-23	29-May-23	90			_										Are	a Occupied						
S20-1000	Portion 15.6b - Site Clearance and Preparation Works (Ecological survey, Tree Survey)	6	01-Mar-23	07-Mar-23	30-May-23	05-Jun-23	71			1	1		 	1			 - -		 		Portio	on 15.6b - Site	e ¢learance and	Preparation W	orks (Ecological s	survey, Tree	Survey)
S20-1010	Portion 15.6b - Level Ground (7,780m3)	36	08-Mar-23	22-Apr-23	06-Jun-23	19-Jul-23	71																				Por
S20-1020	Portion 15.6b - CPT (5 nrs @ ave 10nrs/d/rig, 1 rig)	1	08-Mar-23	08-Mar-23	06-Jun-23	06-Jun-23	71								· · · · · · · · · · · · · · · · · · ·						Por	rțion 15.6b - C	CPT (5 nrs @ av	ę 10nrs/d/rig, 1	rig)		
S20-1030	Portion 15.6b - Instrumentation Installation Type C1 (MPX 14 nrs @ ave 3d/nr/rig, 8 rigs)	7	08-Mar-23	15-Mar-23	06-Jun-23	13-Jun-23	71]	1								 			P	Portion 15.6b - Ins	trumentation Ir	stallation Type C1	(MPX 14 nr	s@ave3d/nr/rig,8
S20-1040	Portion 15.6b - Instrumentation Installation Type C1 (VMP 28 nrs @ ave 6d/nr/rig, 8 rigs)	23	16-Mar-23	15-Apr-23	14-Jun-23	12-Jul-23	71				1										1				·		Portion 15.6b - Inst
S20-1050	Portion 15.6b - Instrumentation Installation Type C1 (SP 14 nrs @ ave 3d/nr/rig, 8 rigs)	7	04-Apr-23	15-Apr-23	05-Jul-23	12-Jul-23	71				1			1	· · · · · · · · · · · · · · · · · · ·						1						Portion 15.60 - Ins
S20-1060	Portion 15.6b - Instrumentation Installation Type C1 (SSM 14 nrs)	7	04-Apr-23	15-Apr-23	05-Jul-23	12-Jul-23	71				1			1	·				·		1						Portion 15.60 - Ins
S20-1070	Portion 15.6b - Granular Fill (19,010m3 @ 1,500m3/d)	13	17-Apr-23	02-May-23	13-Jul-23	27-Jul-23	71	1					 	 I I	· · · · · · · · · · · · · · · · · · ·		 		 		1		1		<u>-</u> <u>+</u>		





Actual Work

Remaining Work

Critical Remaining Work

♦♦ Milestone

Contract YL/2020/01 - Lok Ma Chau Loop Mair Three Month Rolling Progra

n Warka Daakaga 1	Project ID : d.YL15-230116		Three Month Rolling	g Programme	
n Works Package 1	Layout : YL-02 3MRP	Date	Revision	Checked	Approved
ramme	Date : 31-Oct-22/ Page 10 of 10	31-Dec-22	MPR No. 18		

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/2020/02 Western Connection Road Phase 2, Connection Roads to Fanling/San Tin Highway and DRL

ID Activity Name	Actual Duration			Finish	Total Float	2022	2023 January February C
tern Connection Road Phase 2, Connection Roads to Fanling/San Tin Highway and DRL Ph	158			A 31-May-23		25 01	us 15 22 29 05 12 19 26
tion 1 of the Works- Completion of the Works within Portion 1,2A,2B,3,5,7,8,9&10 of the Site	37		7 23-Nov-22 A		-65		
ting Cycle Track Subway Modification	0	7	7 09-Jan-23	17-Apr-23	-251		
nolition Works	0	7	7 09-Jan-23	17-Apr-23	-251		
4670 Implementation of TTA - Close Cycle Track / Divert to Temp Cycle Track	0		1 09-Jan-23	10-Jan-23	-251		Implementation of TTA - Close Cycle Track / Divert to Temp Cycle Track
4675.10 UU Detection	0		2 10-Jan-23	12-Jan-23	-250		UU Detection
4675.20 Excavate Trial Pit to locate 132KV Alignment	0		6 12-Jan-23	19-Jan-23	-250		Excavate Trial Pit to locate 132KV Alignment
4675.30 Protection Measures to 132kv line (Mark & Protect 132kv Line)	0		4 19-Jan-23	27-Jan-23	-250		Protection Measures to 132kv line (Mark & Protect 132kv Line)
4675.40 Install Sheet Piling to Temporary Cofferdam	0	1	2 27-Jan-23	10-Feb-23	-250		Install Sheet Piling to Temporary Cofferdam
4680.10 Demolition of top portion of cycle track ramp walls (Bay ST12)	0	1	0 09-Feb-23	21-Feb-23	-250		Demolition of top portion of
4680.20 Demolition of top portion of cycle track ramp walls (Bay ST13)	0	1	0 20-Feb-23	03-Mar-23	-250		
4680.30 Demolition of top portion of cycle track ramp walls (Bay ST14)	0	1	0 02-Mar-23	14-Mar-23	-250		
4680-10 Demolition of lower portion of cycle track ramp walls (Bay ST12 to Bay ST14)	0	2	4 15-Mar-23	17-Apr-23	-251		
ining Walls	37		7 23-Nov-22 A	A 27-Apr-23	-65		
ining Wall RW9	37		7 23-Nov-22 A	A 27-Apr-23	-65		
paration Works Stage 1 - Bay 9-16	37		9 23-Nov-22 A		-57		
14730.10 Excavate Bay 16-9	37		5 23-Nov-22 A		-53		Excavate Bay 16-9
14730.20 Excavate Bay 8-1	0		0 19-Jan-23		-57		Excavate Bay
9 Bay 9-16	1		7 07-Jan-23 A		-65		
se Slab	1		8 07-Jan-23 A		-72		
114735.30.10 Formworks, Rebar fixing and Cast Base Slab - Bay 16	1		6 07-Jan-23 A		-90		Formworks, Rebar fixing and Cast Base Slab - Bay 16
114735.40 Formworks, Rebar fixing and Cast Base Slab - Bay 14	0		6 16-Jan-23		-90		Formworks, Rebar fixing and Cast Base Slab - Bay 14
114735.50 Formworks, Rebar fixing and Cast Base Slab - Bay 15	0		6 26-Jan-23		-90		Formworks, Rebar fixing and Cast Base Slab - Bay 15
114735.60 Formworks, Rebar fixing and Cast Base Slab - Bay 13	0		6 02-Feb-23		-90		Formworks, Rebar fixing and Cast Base Slab - Bay 13
114735.70 Formworks, Rebar fixing and Cast Base Slab - Bay 12	0		6 09-Feb-23		-72		Formworks, Rebar fixing and Cast Base Slab -
114735.80 Formworks, Rebar fixing and Cast Base Slab - Bay 11	0		6 16-Feb-23	22-Feb-23	-72		Formworks, Rebarition
114735.100 Formworks, Rebar fixing and Cast Base Slab - Bay 10	0		6 23-Feb-23		-72		
114735.90 Formworks, Rebar fixing and Cast Base Slab - Bay 9	0		6 02-Mar-23		-72		
II Stem	0		8 09-Feb-23		-90 -90		Formworks, Rebar fixing and Cast Wall Stem B
114735.130 Formworks, Rebar fixing and Cast Wall Stem Bay 16	0		6 09-Feb-23				Formworks, Rebar form
114735.140 Formworks, Rebar fixing and Cast Wall Stem Bay 15	0		6 16-Feb-23		-90		
1/14735.150 Formworks, Rebar fixing and Cast Wall Stem Bay 14	0		6 23-Feb-23 6 02-Mar-23		-90 -90		
Formworks, Rebar fixing and Cast Wall Stem Bay 13 1/14735.170 Formworks, Rebar fixing and Cast Wall Stem Bay 12	0		6 02-Mar-23 6 09-Mar-23		-90		
14735.170 Formworks, Rebar fixing and Cast Wall Stern Bay 12 14735.180 Formworks, Rebar fixing and Cast Wall Stern Bay 11	0		6 16-Mar-23	22-Mar-23	-90		
114735.190 Formworks, Rebar fixing and Cast Wall Stern Bay 11	0		6 23-Mar-23		-90		
114735.200 Formworks, Rebar fixing and Cast Wall Stern Bay 9	0		6 30-Mar-23		-90		
ckfilling	0		5 14-Mar-23		-65		
114745.10 Backfilling and removal of sheetpile Bay 16-9	0		5 14-Mar-23		-65		
tion 2A of the Works-Completion of the Works at Lok Ma Chau Road within Portion 1,5 and 8	158		6 03-Aug-22 A		-123		
e 1: North-Eastside of LMC along CS1 & CS2 Slope (SB Side Ch.0 to Ch.170 from North Border)	10		1 23-Dec-22 A		-87		
ining Wall BP1	10	6	1 23-Dec-22 A	A 14-Apr-23	-87		
allation of Bored Piles (BPW1)	10	6	1 23-Dec-22 A	A 14-Apr-23	-87		
red Piles Ch.23 to Ch.48 (17 Nos)	10	6	1 23-Dec-22 A	A 14-Apr-23	-87		
A.Z1.1060.16 Excavate, Rebar Cage & fixing Bored Pile 16	3		0 23-Dec-22 A	A 29-Dec-22 A	\	Excavaté, Rebar Cage & fixir	Pored Pile 16
A.Z1.1060.17 Excavate, Rebar Cage & fixing Bored Pile 17	5		0 24-Dec-22 A	A 31-Dec-22 A	\	Excavate, Rebar Ca	ge & fixing Bored Pile 17
A.Z1.1060.18 Excavate, Rebar Cage & fixing Bored Pile 18	6		0 28-Dec-22 A	A 05-Jan-23 A	۱	Excav	ate, Rebar Cage & fixing Bored Pile 18
A.Z1.1060.19 Excavate, Rebar Cage & fixing Bored Pile 19	5		0 30-Dec-22 A	A 06-Jan-23 A	1	Ex	ayate, Rebar Cage & fixing Bored Pile 19
A.Z1.1060.20 Excavate, Rebar Cage & fixing Bored Pile 20	4		0 02-Jan-23 A	A 07-Jan-23 A	1		Encavate, Rebar Cage & fixing Bored Pile 20
A.Z1.1060.50 Concreting of Bored Pile 16-20 (5 nos)	0		0 07-Jan-23 A	A 07-Jan-23 A	\		Concreting of Bored Pile 16-20 (5 nos)
A.Z1.1060.21 Excavate, Rebar Cage & fixing Bored Pile 21	0		6 30-Jan-23	04-Feb-23	-87		Excavate, Rebar Cage & fixing Bored Pile 21
A.Z1.1060.22 Excavate, Rebar Cage & fixing Bored Pile 22	0		6 02-Feb-23	08-Feb-23	-87		Excavate, Rebar Cage & fixing Bored Pile 22
A.Z1.1060.23 Excavate, Rebar Cage & fixing Bored Pile 23	0		6 06-Feb-23	11-Feb-23	-87		Excavate, Rebar Cage & fixing Bored Pile 23
A.Z1.1060.24 Excavate, Rebar Cage & fixing Bored Pile 24	0		6 09-Feb-23	15-Feb-23	-87		Excavate, Rebar Cage & fixing Bored Pile 24
A.Z1.1060.25 Excavate, Rebar Cage & fixing Bored Pile 25	0		6 13-Feb-23	18-Feb-23	-87		Excavate, Rebar Cage & fixing Bored
2A.Z1.1060.55 Concreting of Bored Pile 20-25 (5 nos)	0		1 20-Feb-23	20-Feb-23	-87		Concreting of Bored Pile 20-2
2A.Z1.1060.26 Excavate, Rebar Cage & fixing Bored Pile 26	0		6 01-Mar-23	07-Mar-23	-87		
A.Z1.1060.27 Excavate, Rebar Cage & fixing Bored Pile 27	0		6 04-Mar-23		-87		
A.Z1.1060.28 Excavate, Rebar Cage & fixing Bored Pile 28	0		6 08-Mar-23		-87		
A.Z1.1060.29 Excavate, Rebar Cage & fixing Bored Pile 29	0		6 11-Mar-23		-87		
A.Z1.1060.30 Excavate, Rebar Cage & fixing Bored Pile 30	0		6 15-Mar-23		-87		
A.Z1.1060.60 Concreting of Bored Pile 25-30 (5 nos)	0		1 22-Mar-23		-87		
2A.Z1.1060.31 Excavate, Rebar Cage & fixing Bored Pile 31	0		6 31-Mar-23		-87		
2A.Z1.1060.32 Excavate, Rebar Cage & fixing Bored Pile 32	0		6 04-Apr-23		-87		
e 5: Cycle Track South-Eastside of LMC (approx. 580m) (Ch.+340 to Ch.+920)	130		4 03-Aug-22 A		-176		
paration Works	130			A 31-Jan-23		T	
-							
							Site Clearance in Zone 5
AZ5.5140 Tree Felling/ Tree Protection AZ5.5150 Site Clearance in Zone 5 ting of U/G Utilities		123	123 80 1	123 0 03-Aug-22 / 80 17 03-Oct-22 /	123 0 03-Aug-22 A 30-Dec-22 A 80 17 03-Oct-22 A 31-Jan-23	123 0 03-Aug-22 A 30-Dec-22 A 80 17 03-Oct-22 A 31-Jan-23 -176	123 0 03-Aug-22 A 30-Dec-22 A Tree Felling/ Tree Protection 80 17 03-Oct-22 A 31-Jan-23 -176

CEDD CEDD Civil Engineering and Development Department



Three Month Rolling Programme (Data Date : 08-Jan-23) Period: 09 Jan 23 to 08 Apr 23 Page : 1 of 3



L Phase	1				
	•				
		March			April
05		12 19		26	02
	(Day 0742)				
cycle track ramp walls		k ramp walls (Bay ST13)			
Berneinsen er top		Demolition of top portion of	f cycle track ramp w	alls (Bay	ST14)
			· ·		<i>.</i>
8-1					
Bay 12					
and Cast Base Slab -					
ormworks, Rebar fixin					
	Formworks, Rebar 1	ixing and Cast Base Slab ·	- Bay 9		
ay 16					
and Cast Wall Stem I	Bay 15				
ormworks, Rebar fixin		m Bay 14			
	Formworks, Rebar f	ixing and Cast Wall Stem I	Bay 13		
		Formworks, Rebar fixin	g and Cast Wall Ste	m Bay 12	
					Cast Wall Stem Bay 11
				Formv	vorks, Rebar fixing and
				_	For
	_				
Pile 25					
Pile 25 5 (5 nos)					
	avate, Rebar Cage	& fixing Bored Pile 26			
	Excavate, Re	bar Cage & fixing Bored P	ie 27		
		Excavate, Rebar Cage & f			
		Excavate, Reba	r Cage & fixing Bore	d Pile 29	
			avate, Rebar Cage		
		-	Concreting of Bored	1 Pile 25-3	U (5 nos)
				-	
		3 Months Ro	olling Progra	mme	
	Date	Revision	Chec		Approved
		Rev.2.1k	DML		RP/RS
Work	30-Jan-23	1.00.2.11			

Contract No. YL/2020/02 Western Connection Road Phase 2, Connection Roads to Fanling/San Tin Highway and DRI

ctivity ID	Activity Name	Actual Duration			Finish	Total Float		January	2023 February
S2A.Z5.5120.10	Implement TTA on Footpath	0		1 09-Feb-23	09-Feb-23	-176	25 01	08 15 22	29 05 12 19 26 Implement TTA on Footpath
S2A.Z5.5120.10 S2A.Z5.5120.20	Trial Pit to expose existing utilities	0		09-Feb-23	16-Feb-23	-176			Trial Pit to expose existing utilities
S2A.Z5.5120.20	Trench excavation	0		8 17-Feb-23	09-Mar-23	-176			
	Liaise and Coordinate with Utility Co. and Shift existing utilities clashing with RW6	0		5 10-Mar-23	24-Apr-23	-176			
	South of NB16 at LMC Rd. (approx. 580m) (NB & SB Ch.+340 to Ch.+920)	0		5 09-Mar-23	02-Apr-23	-152			
CLP Cable Shifting (alo		0		5 09-Mar-23	02-Apr-23	-152			
S2A.Z6.6620	Implement TTA	0		1 09-Mar-23	02-Apr-23	-152			
S2A.Z6.6680	Expose Cable alignment	0		4 10-Mar-23	03-Mai-23	-152			
		17		6 16-Dec-22 A		127			
	Norks- Completion of Substructure and Piling Works of ST01 and CTFB ing Works for Bridge ST01	17		4 16-Dec-22 A		127			
G.I and Pre-drilling	ing works for bridge STUT	12							
Pre-drilling				0 16-Dec-22 A		-21			
	Deside FID CDD (Deside to secondaria surellà cand target foundies laure)	12		0 16-Dec-22 A		-21	Prodrilling Elf	-PD2 (Pre-boring to ascertain quality and target founding level)	
S02CP3260	Predrilling EIBC-PD2 (Pre-boring to ascertain quality and target founding level)	12		0 16-Dec-22 A				Predrilling EIBC-PD4 (Pre-boring to ascertain quality and target founding lever)	ality and target founding level.
S02CP3280	Predrilling EIBC-PD4 (Pre-boring to ascertain quality and target founding level)	0		6 09-Jan-23	14-Jan-23	-21			
S02CP3290	Predrilling EIBC-PD5 (Pre-boring to ascertain quality and target founding level)	0		6 16-Jan-23	25-Jan-23	-21		Predning E	BC-PD5 (Pre-boring to ascertain quality and target founding level)
S02CP3310	Predrilling EIBC-PD3 (Pre-boring to ascertain quality and target founding level)	0		6 26-Jan-23	01-Feb-23	-21			Predrilling EIBC-PD3 (Pre-boring to ascertain quality and target founding level)
S02CP3330	Predrilling EIBC-PD7 (Pre-boring to ascertain quality and target founding level)	0		6 02-Feb-23	08-Feb-23	-21			Predrilling EIBC-PD7 (Pre-boring to ascertain quality and target foundi
S02CP3350	Predrilling EIBC-PD8	0		6 09-Feb-23	15-Feb-23	-21			Predrilling EIBC-PD8
Piling Works		1	6	6 07-Jan-23 A	29-Mar-23	157			
Installation of bored pi	viles for Pier ST01-P06	1	3	7 07-Jan-23 A	23-Feb-23	186			
S02CP3580.1	Pile Excavation (Drilling) / Casings	1	1	5 07-Jan-23 A	28-Jan-23	173	•	Pi	e Excavation (Drilling) / Casings
S02CP3580.2	Rebar Cage lowering and fixing	0		6 02-Feb-23	08-Feb-23	173			Rebar Cage lowering and fixing
S02CP3580.3	Inspection & Concreting	0		2 09-Feb-23	10-Feb-23	173			Inspection & Concreting
S02CP3600	Sonic test and interface core	0		3 21-Feb-23	23-Feb-23	186			Sonic test and interfa
Installation of bored pi	iles for Pier DK-01	0	3	6 16-Feb-23	29-Mar-23	-21			
S02CP3790	Mobilisation and Set-up of Plant	0	1	2 16-Feb-23	01-Mar-23	-21			•••••••••••••••••••••••••••••••••••••••
S02CP3780	Installation of bored piles for Pier DK-01 (2 nos) (subject to change based on proposed EIBC)	0	2	4 02-Mar-23	29-Mar-23	-21			
Pilehead Treatment, Pile	le Cap and Pier/Abutment Construction	14	8	4 20-Dec-22 A	24-Apr-23	73			
At Pier ST01-P02		11	6	6 22-Dec-22 A	29-Mar-23	73			
S02CP3810	Installation of ELS (Sheet Piling)	11		0 22-Dec-22 A	07-Jan-23 A			stallation of ELS (Sheet Piling)	
S02CP3820	Excavation and pilehead treatment	0	1	2 09-Jan-23	25-Jan-23	-144		Excavation a	and pilehead treatment
S02CP3830	Construction of pile cap	0	1	4 28-Jan-23	13-Feb-23	-144			Construction of pile cap
S02CP3840	Construction of pier	0	1	8 09-Mar-23	29-Mar-23	73			
At Pier ST01-P03		14	7	2 20-Dec-22 A	24-Apr-23	73			
S02CP3850	Installation of ELS (sheet piling)	14		0 20-Dec-22 A				Installation of ELS (sheet piling)	
S02CP3855	Excavation and pilehead treatment	0		2 26-Jan-23	08-Feb-23	-140			Excavation and pilehead treatment
S02CP3860	Construction of pile cap	0		4 14-Feb-23	01-Mar-23	-144			
S02CP3870	Construction of pier	0		8 30-Mar-23	24-Apr-23	73			
Substructure and Pilir		0		5 06-Feb-23	09-May-23	-31			
Piling Works		0		5 06-Feb-23	26-Apr-23	-21			
	Pile for Abutment FBA-01 (Change to 8 nos H-Pile) (Subject to MTR Acceptance)	0	-	1 06-Feb-23	06-Apr-23	-34			
S02C802	Loading Test of Trial Pile (FBA-01-P4)	0	-	4 06-Feb-23*	21-Feb-23	-34			Loading Test of Trial Pile (F
S02C692	Installation/Construction of Socket H-Pile FBA-01-P1	0	-	6 22-Feb-23	28-Feb-23	-34			
S02C702	Installation/Construction of Socket H-Pile FBA-01-P2	0		6 28-Feb-23	06-Mar-23	-34			
S02C702	Installation/Construction of Socket H-Pile FBA-01-P3	0		6 06-Mar-23	11-Mar-23	-34			
		-							
S02C742	Installation/Construction of Socket H-Pile FBA-01-P5	0			18-Mar-23	-34			
S02C772	Installation/Construction of Socket H-Pile FBA-01-P6	0		6 18-Mar-23	24-Mar-23	-34			
S02C782	Installation/Construction of Socket H-Pile FBA-01-P7	0		6 24-Mar-23	30-Mar-23	-34			
S02C792	Installation/Construction of Socket H-Pile FBA-01-P8	0		6 30-Mar-23	06-Apr-23	-34			
Installation of Bored P		0		0 30-Mar-23	26-Apr-23	-21			
S02C720	Installation of bored piles for Pier FBP-04 (2 nos) (subject to change based on proposed EIBC)	0		0 30-Mar-23	26-Apr-23	-21			
	le Cap and Pier/Abutment Construction	0	5	4 02-Mar-23	09-May-23	-117			
At Pier FBP-06		0	5	4 02-Mar-23	09-May-23	-117			
S02C748	Installation of ELS	0	1	4 02-Mar-23	17-Mar-23	-144			
S02C749	Excavation and pilehead treatment	0	1	2 18-Mar-23	31-Mar-23	-117			
S02C750	Construction of pile cap	0	2	8 01-Apr-23	09-May-23	-117			
Section 3 of the Wo	orks- Completion of the works of Direct Road Link within Portion 1,2A,2B, 5 a	107	11	4 30-Aug-22 A	31-May-23	181			
Preparation Works		107	11	4 30-Aug-22 A	31-May-23	4			
S031190	Preparation Works - DSD Approval. Temp. Works Design & Approval - (working platform in nullah	107		9 30-Aug-22 A	18-Jan-23	-23		Preparation Works - DSD Approval	Temp Works Design & Approval - (working platform in nullah - DRL-P07)
S031570	Construction of a working platform in Nullah for DRL-P07 (Subject to proposed change and overa	0	3	0 19-Jan-23	25-Feb-23	-23			Construction of
S031270	Site Access formation at LMC PTI and Backfilling of Reedbed No. 3	0	7	5 27-Feb-23	31-May-23	4			
G.I and Pre-drilling		0	6	0 27-Feb-23	12-May-23	-23			
Pre-drilling Works		0		0 27-Feb-23	12-May-23	-23			
S031070	Pre-drilling works for Pier DRL-P07 (Subject to proposed change and overall design review of DR	0		4 27-Feb-23	14-Mar-23	3			
S031180	Installation of working platform and Pre-drilling works for Pier DRL-P06 (PD01)	0		4 27-Feb-23	25-Mar-23	-23			
S031130	Installation of working platform and Pre-drilling works for Pier DRL-P08	0		6 27-Mar-23	12-May-23	-23			
	tto Overall DRL Design Review)	0		3 09-Jan-23	22-Apr-23	212			
	viles for Pier DRL-P11 (Subject to Overall DRL Design Review)	0		0 09-Jan-23	19-Apr-23	-126			
		0	0	00 001-20	10 Apr-20	120			
S031520	Excavate, Rebar Cage & Concreting DRL-P11-P1	0	^	0 09-Jan-23	03-Feb-23	-126	:		Excavate, Rebar Cage & Concreting DRL-P11-P1





Three Month Rolling Programme (Data Date : 08-Jan-23) Period: 09 Jan 23 to 08 Apr 23 Page: 2 of 3



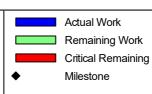
_ Phase	1				
LFIIdSe	·				
05		March 12	19	26	April 02
	Trench excavation	on			
	Implement TTA				
					Expose Cable a
ng level)					
ace core					
4-6-8	of Dire 1				
Mobilisation and Set-up	o of Plant			Instal	ation of bored piles for F
				Cons	truction of pier
Construction of pile cap					
Jonstruction of pile cap)				
BA-01-P4)					
allation/Construction of			EBA 04 B2		
Installa	ition/Construction of		FBA-01-P2 of Socket H-Pile	FBA-01-P3	
		ln:	stallation/Constr	uction of Socket H-Pile I	BA-01-P5
			_		n of Socket H-Pile FBA stallation/Construction of
					Ins
		Instal	lation of ELS		Excavation and pilehe
of a working platform ir	Nullah for DRL-P0	7 (Subject to pr	oposed change	and overall design revie	w of DRL)
		Pre-drilling worl	ks for Pier DRL-I		d change and overall d
					o procession and the diff
					<u> </u>
		3 Mor	nths Rollin	ig Programme	
	Date		vision	Checked	Approved
Work	08-Jan-23	Rev.2.1k	(DML	RP/RS

Contract No. YL/2020/02 Western Connection Road Phase 2, Connection Roads to Fanling/San Tin Highway and DRI

tivity ID	Activity Name	Actual			Finish	Total	2022			2023	
		Duration	Duration			Float	25	01	January 08 15 22	29 05 12 19	26
S031540	Excavate, Rebar Cage & Concreting DRL-P11-P2	0	20	04-Feb-23	27-Feb-23	-126					Excavate, I
S031550	Excavate, Rebar Cage & Concreting DRL-P11-P3	0	20	28-Feb-23	22-Mar-23	-126					
S031560	Excavate, Rebar Cage & Concreting DRL-P11-P4	0	20	23-Mar-23	19-Apr-23	-126					
Installation of Bo	red Piles for Pier DRL-P10	0	21	02-Mar-23	25-Mar-23	-121					
S031250	Implementation of TTA	0	1	02-Mar-23	02-Mar-23	-121					• k
S031280	Installation of bored piles for Pier DRL-P10 (2 nos)	0	20	03-Mar-23	25-Mar-23	-121					
Installation of Bo	red Piles for Pier DRL-P09	0	22	24-Mar-23	22-Apr-23	-121					
S031300	Implementation of TTA	0	1	24-Mar-23	24-Mar-23	-100					
S031310	Installation of bored piles for Pier DRL-P9 (2 nos)	0	20	27-Mar-23	22-Apr-23	-121					
Installation of Bo	ed Piles for Pier DRL-P04	0	3	09-Jan-23	11-Jan-23	53					
S031360	Interface core and sonic test	0	3	09-Jan-23	11-Jan-23	53			Interface core and sonic test		
	red Piles for Abutment DRL-A01 (6 nos) (Change to Socket H-Piles 12 nos)	0	21		04-Feb-23	172					
S031470.10	Installation of Socket H-Pile A01-W-P01	0	6		14-Jan-23	172			Installation of Socket H-Pile A01-W-P01		
S031470.20	Installation of Socket H-Pile A01-W-P03	0	6		18-Jan-23	172			Installation of Socket H-Pile A01-W-P0	3	
S031470.30	Installation of Socket H-Pile A01-M-P02	0		17-Jan-23	26-Jan-23	172				of Socket H-Pile A01-M-P02	
S031470.40	Installation of Socket H-Pile A01-E-P01	0		25-Jan-23	31-Jan-23	172				Installation of Socket H-Pile A01-E-P01	
S031470.50	Installation of Socket H-Pile A01-W-P05	0	6		04-Feb-23	172				Installation of Socket H-Pile A01-W-P05	
	red Piles for Approach ramp AP04 (9 nos) (Change to Socket H-Piles 11 nos)	0	12		18-Feb-23	226					
S03100.10	Installation of Socket H-Pile AP04-M-P1	0	6		11-Feb-23	220				Installation of Socket H-Pile AP04-M-P1	
S03100.10	Installation of Socket H-Pile AP04-M-P1	0	6		18-Feb-23	220				Installation of Socket H-Pile	
	red Piles for Approach Ramp at U-Through(12 nos) (Change to Socket H-Piles 17 nos)	0			01-Apr-23	226					C /4 04 WH 2
	Installation of Socket H-Pile AP00- E-P1	0		20-Feb-23		220				hat	stallation of Soc
S03100.30		0	6		25-Feb-23					III III III III III III III III III II	taliation of Soc
S03100.40	Installation of Socket H-Pile AP00- E-P2	0	-		04-Mar-23	226					
S03100.50	Installation of Socket H-Pile AP00- E-P3	0	6		11-Mar-23	226					
S03100.60	Installation of Socket H-Pile AP00- E-P4	0	6		18-Mar-23	226					
S03100.70	Installation of Socket H-Pile AP00- E-P5	0	6		25-Mar-23	226					
S03100.80	Installation of Socket H-Pile AP00- E-P6	0	6		01-Apr-23	226					
	ent and Construction of Pile Cap	0	24		19-Apr-23	-144					
At Pier DRL P-13		0	24		19-Apr-23	-144					
S031600	Installation of ELS	0	10	18-Mar-23	29-Mar-23	-144					
S031610	Excavation and pilehead treatment	0	14	30-Mar-23	19-Apr-23	-144					
	e Works- Completion of the works within Portion 6 of the Site	0	72	09-Jan-23	06-Apr-23	-56					
S050100-75	Implement TTA Stage 1	0	1	09-Jan-23	09-Jan-23	-56			Implement TTA Stage 1		
S050100-30	Construction of Pai Lau Columns - South	0	12	10-Jan-23	26-Jan-23	-56			Construction	n of Pai Lau Columns - South	
S050100-80	Backfill and Reinstae Concrete Paving -South	0	6	27-Jan-23	02-Feb-23	-56				Backfill and Reinstae Concrete Paving -South	
S050100-90	Asphalt Paving to Carriageway (Middle)	0	2	03-Feb-23	04-Feb-23	-56				Asphalt Paving to Carriageway (Middle)	
S050100-40	Implement TTA Stage 3	0	1	06-Feb-23	06-Feb-23	-56				Implement TTA Stage 3	
S050100-45	Construction of Pai Lau Columns - North	0	12	07-Feb-23	20-Feb-23	-56				Construction of Pail	Lau Columns
S050100-50	Backfill and road reinstate Concrete Paving - North	0	6	21-Feb-23	27-Feb-23	-56					Backfill an
S050100-100	Asphalt to Carriageway	0	2	28-Feb-23	01-Mar-23	-56					📥 Asp
S050100-55	Implement TTA Stage 4	0	1	02-Mar-23	02-Mar-23	-56					-
S050100-85	Erect Portal Falsework Support	0	7	03-Mar-23	10-Mar-23	-56					ŕ
S050100-60	Construction of Pai Lau - cantilever structure above columns under TTA Stage 4	0	22	11-Mar-23	06-Apr-23	-56					







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05	· · ·	March 12	19	26	April 02
te, Rebar Cage & Con	creting DRL-P11-P2	2	_		
			Excav	rate, Rebar Cage & Co	ncreting DRL-P11-P3
Implementation of T	ТА				
Implementation of t				Installation of borer	t piles for Pier DRL-P10
				_	
			-	Implementation of TTA	
				-	
D 2					
P2					
Socket H-Pile AP00- E	_P1				
	Socket H-Pile AP00	- E-P2			
		of Socket H-Pile AF	P00- E-P3		
				et H-Pile AP00- E-P4	
				Installation of Sock	et H-Pile AP00- E-P5
					 Installation of Socket
				Install	ation of ELS
ins - North					
and road reinstate Co	ncrete Paving - Nort	h			
Asphalt to Carriageway					
 Implement TTA Stag 					
		alsework Support			
					Co
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				g Programme	
	Date	Revisio	on	Checked	Approved
		Rev.2.1k		DML	RP/RS
Work				· ·	

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

)	Activity Name	Orig Dur	Early Start	Early Finish	Late Start	Late Finish	Total er Float					January 27			February 28	March 29	40		April 30	
ntract No	. YL/2021/01 - Contract 3 - Updated Programme (De	497	01-Apr-22 A	29-Sep-25	28-Feb-22	26-Aug-26	129	18	25	01	08	15	22	29 05		5 12	19 26	02	09	16
itract Data		341	11-Jun-22 A	04-Feb-23	28-Feb-22	09-Feb-23	5													
	o Part of the Site	0	01-Jan-23	01-Jan-23	28-Feb-22	28-Feb-22	-307													
r	AD3 - Portion 3 Access Date (sd+0)	0	01-Jan-23*		28-Feb-22		-307			AD3 - Por	tion 3 Acces	s Date (sd+0))							
	AD4 - Portion 4 Access Date (sd+0)	0	01-Jan-23*		28-Feb-22		-307			AD4 - Por	tion 4 Acces	s Date (sd+0))							,
nned Comple		0	01-Jan-23 01-Jan-23	01-Jan-23 01-Jan-23	28-Feb-22 28-Feb-22	28-Feb-22 28-Feb-22	-307													
	Part of the Site AD3 - Portion 3 Access Date (sd+0)	0	01-Jan-23*	01-Jan-23	28-Feb-22	28-FeD-22	-307			AD3 - Por	tion 3 Acces	s Date (sd+0))							
	AD4 - Portion 4 Access Date (sd+0)	0	01-Jan-23*		28-Feb-22		-307					s Date (sd+0								
ned Section	Completions	341	11-Jun-22 A	04-Feb-23	26-Jul-22	09-Feb-23	5										1			
· · · · · ·	r's Instruction (PMI)	341	11-Jun-22 A	04-Feb-23	26-Jul-22	09-Feb-23	5													,
	evised Drawings for MTRC Station Modification	320	11-Jun-22 A 11-Jun-22 A	14-Jan-23	26-Jul-22 26-Jul-22	09-Aug-22	-158				0E Ouetet		on and Submissio							
	PMI No. 005 - Quotation Preparation and Submission PMI No. 005 - PM Review and Reply	21	01-Jan-23	01-Jan-23 14-Jan-23	26-Jul-22 27-Jul-22	26-Jul-22 09-Aug-22	-158						05 - PM Review a				·			
	evised Drawings for EPTI & DDFB	320	11-Jun-22 A	14-Jan-23	07-Sep-22	21-Sep-22	-115													
	PMI No. 006 - Quotation Preparation and Submission	21	11-Jun-22 A	01-Jan-23	07-Sep-22	07-Sep-22	-115			I PMI No. 0			on and Submissio							,
	PMI No. 006 - PM Review and Reply evised Drawings for MTRC Station Structural	14 320	01-Jan-23 11-Jun-22 A	14-Jan-23 14-Jan-23	08-Sep-22 07-Nov-22	21-Sep-22 21-Nov-22	-115					PMI No. 0	06 - PM Review a	nd Reply						
	PMI No. 007 - Quotation Preparation and Submission	21	11-Jun-22 A	01-Jan-23	07-Nov-22	07-Nov-22	-54			PMI No. 0) 07 - Quotat	ion Preparati	on and Submissio	n						
	PMI No. 007 - PM Review and Reply	14	01-Jan-23	14-Jan-23	08-Nov-22	21-Nov-22	-54			;			07 - PM Review a							
	onstruction of Drawpits and Ducts for Telecom Cable Diversion	193	27-Jul-22 A	04-Feb-23	10-Nov-22	14-Dec-22	-52													,
	PMI No. 009 - Quotation Preparation and Submission PMI No. 009 - PM Review and Reply	21	27-Jul-22 A 22-Jan-23	21-Jan-23 04-Feb-23	10-Nov-22 01-Dec-22	30-Nov-22 14-Dec-22	-52						PMI No. 009 - 0		ion and Submission 009 - PM Review and Reply					
	emoval of Existing VE Panels, turnstiles & Steel Railing and Reinstatement	320	22-Jul-23	14-Jan-23	26-Jan-23	09-Feb-23	26					4								
1011-110	PMI No. 011 - Quotation Preparation and Submission	21	29-Jul-22 A	01-Jan-23	26-Jan-23	26-Jan-23	26		- j	I PMI No. 0			on and Submissio				·	+		
	PMI No. 011 - PM Review and Reply	14	01-Jan-23	14-Jan-23	27-Jan-23	09-Feb-23	26					PMI No. 0	11 - PM Review a	nd Reply						
	onstruction of Trench for Underground Utilities Diversion PMI No. 011 - Quotation Preparation and Submission	152 21	16-Aug-22 A 16-Aug-22 A	14-Jan-23 01-Jan-23	27-Oct-22 27-Oct-22	10-Nov-22 27-Oct-22	-65					on Prenarati	on and Submissio	h						
	PMI No. 011 - Quotation Preparation and Submission PMI No. 012 - PM Review and Reply	14	01-Jan-23	14-Jan-23	27-Oct-22 28-Oct-22	10-Nov-22	-65						12 - PM Review a							
	esign and Construct of Valve Pits, and Diversion of Incoming Watermain	152	16-Aug-22 A	14-Jan-23	12-Nov-22	26-Nov-22	-49													
	PMI No. 014 - Quotation Preparation and Submission	21	16-Aug-22 A	01-Jan-23	12-Nov-22	12-Nov-22	-49			I PMI No. 0)14 - Quotat		on and Submissic							,
	PMI No. 014 - PM Review and Reply strumentation for Construction Impact Monitoring	14	01-Jan-23 27-Aug-22 A	14-Jan-23 14-Jan-23	13-Nov-22 21-Nov-22	26-Nov-22 05-Dec-22	-49					PMI No. 0	14 - PM Review a	nd Reply						
	PMI No. 015 - Quotation Preparation and Submission	21	27-Aug-22 A	01-Jan-23	21-Nov-22	21-Nov-22	-40			PMI No. 0) 15 - Quotat	ion Preparati	on and Submissio	n						
1015-120	PMI No. 015 - PM Review and Reply	14	01-Jan-23	14-Jan-23	21-Nov-22	05-Dec-22	-40						15 - PM Review a							
	onstruction of Trench for Underground Incoming Watermain Diversion	152	20-Aug-22 A	14-Jan-23	16-Nov-22	30-Nov-22	-45													;
	PMI No. 016 - Quotation Preparation and Submission PMI No. 016 - PM Review and Reply	21	20-Aug-22 A 01-Jan-23	01-Jan-23 14-Jan-23	16-Nov-22 17-Nov-22	16-Nov-22 30-Nov-22	-45			PMI No. 0			on and Submission 16 - PM Review a							
	rainage Diversion at EPTI B10	152	06-Sep-22 A	14-Jan-23	22-Nov-22	06-Dec-22	-45				L									
	PMI No. 018 - Quotation Preparation and Submission	0	06-Sep-22 A	01-Jan-23	22-Nov-22	22-Nov-22	-39			PMI No. 0)18 - Quotat	ion Preparati	on and Submissio	n						
	PMI No. 018 - PM Review and Reply	14	01-Jan-23	14-Jan-23	23-Nov-22	06-Dec-22	-39			;		PMI No. 0	18 - PM Review a	nd Reply						;
	rainage Diversion at DDFB BP1 PMI No. 019 - Quotation Preparation and Submission	152 21	06-Sep-22 A 06-Sep-22 A	14-Jan-23 01-Jan-23	27-Sep-22 27-Sep-22	11-Oct-22 27-Sep-22	-95					bo Proporati	on and Submissio							
	PMI No. 019 - PM Review and Reply	14	01-Jan-23	14-Jan-23	27-Sep-22 28-Sep-22	11-Oct-22	-95					-	19 - PM Review a							
	onstruction of Drawpits and Ducts for Telcom Cable Diversion	152	16-Sep-22 A	14-Jan-23	30-Nov-22	14-Dec-22	-31						÷							
	PMI No. 020 - Quotation Preparation and Submission	21	16-Sep-22 A	01-Jan-23	30-Nov-22	30-Nov-22	-31						on and Submissio				1			,
	PMI No. 020 - PM Review and Reply onstruction of Trench for Underground Utilities Diversion	14	01-Jan-23 16-Sep-22 A	14-Jan-23 14-Jan-23	01-Dec-22 27-Oct-22	14-Dec-22 10-Nov-22	-31					PMI No. 0	20 - PM Review a	nd Reply						
	PMI No. 021 - Quotation Preparation and Submission	21	16-Sep-22 A	01-Jan-23	27-Oct-22 27-Oct-22	27-Oct-22	-65			PMI No. 0) 21 - Quotat	ion Preparati	on and Submissio	n						
1021-120	PMI No. 021 - PM Review and Reply	14	01-Jan-23	14-Jan-23	28-Oct-22	10-Nov-22	-65			;		PMI No. 0	21 - PM Review a	nd Reply						
	ccavation of a Trench for Underground Utilities Diversion along Grid B	152	16-Sep-22 A	14-Jan-23	27-Oct-22	10-Nov-22	-65													;
	PMI No. 022 - Quotation Preparation and Submission PMI No. 022 - PM Review and Reply	21	16-Sep-22 A 01-Jan-23	01-Jan-23 14-Jan-23	27-Oct-22 28-Oct-22	27-Oct-22 10-Nov-22	-65			I PMI No. 0)22 - Quotat		on and Submissio 22 - PM Review a							,
	re-construction Condition Survey (by CCTV) for Existing Drainage System	152	16-Sep-22 A	14-Jan-23	27-Oct-22	10-Nov-22	-65								-++++++++					
	PMI No. 027 - Quotation Preparation and Submission	21	16-Sep-22 A	01-Jan-23	27-Oct-22	27-Oct-22	-65			I PMI No. 0)27 - Quotat	ion Preparati	on and Submissio	n						
	PMI No. 027 - PM Review and Reply	14	01-Jan-23	14-Jan-23	28-Oct-22	10-Nov-22	-65					PMI No. 0	27 - PM Review a	nd Reply						,
	strumentation for Construction Impact Monitoring	152	12-Nov-22 A	14-Jan-23	21-Nov-22	05-Dec-22	-40					hn Pronorati	on and Submissio							
	PMI No. 028 - Quotation Preparation and Submission PMI No. 028 - PM Review and Reply	21 14	12-Nov-22 A 01-Jan-23	01-Jan-23 14-Jan-23	21-Nov-22 21-Nov-22	21-Nov-22 05-Dec-22	-40			i i ivii ino. 0			on and Submissic 28 - PM Review a							
	re-drilling Works for Revised DDFB Foundation	152	11-Oct-22 A	14-Jan-23	07-Sep-22	21-Sep-22	-115							· · · · · · · · · · · · · · · · · · ·			1 1 1	+		
	PMI No. 029 - Quotation Preparation and Submission	21	11-Oct-22 A	01-Jan-23	07-Sep-22	07-Sep-22	-115			I PMI No. 0)29 - Quotat		on and Submissio				1			
	PMI No. 029 - PM Review and Reply ermanent Reinstatement of Concrete Carriageway for Excavated Trench along Grid G	14	01-Jan-23 08-Oct-22 A	14-Jan-23 14-Jan-23	08-Sep-22 27-Oct-22	21-Sep-22 10-Nov-22	-115					PMI No. 0	29 - PM Review a	nd Reply						
	PMI No. 030 - Quotation Preparation and Submission	21	08-Oct-22 A	01-Jan-23	27-Oct-22 27-Oct-22	27-Oct-22	-65			PMI No. 0	30 - Quotat	ion Preparati	on and Submissio	μ η			1 			
	PMI No. 030 - PM Review and Reply	14	01-Jan-23	14-Jan-23	28-Oct-22	10-Nov-22	-65						30 - PM Review a				· · · · · · · · · · · · · · · · · · ·	+		
	ermanent Reinstatement of Concrete Carriageway for Excavated Trench along Grid G	152	20-Oct-22 A	14-Jan-23	27-Oct-22	10-Nov-22	-65													
	PMI No. 031 - Quotation Preparation and Submission PMI No. 031 - PM Review and Reply	21	20-Oct-22 A 01-Jan-23	01-Jan-23 14-Jan-23	27-Oct-22 28-Oct-22	27-Oct-22 10-Nov-22	-65			PMI No. 0	131 - Quotat		on and Submissic 31 - PM Review a							
	PMI No. 031 - PM Review and Reply elocation of Refrigerant Pipes with Insulation	14	18-Oct-22 A	14-Jan-23	28-Oct-22 21-Dec-22	10-Nov-22 04-Jan-23	-00					FIVILINO. U	ייי - רועו הeview a							
032-110	PMI No. 032 - Quotation Preparation and Submission	21	18-Oct-22 A	01-Jan-23	21-Dec-22	21-Dec-22	-10			I PMI No. 0)32 - Quotat	ion Preparati	on and Submissio	n			1 1 1	+-;		
	PMI No. 032 - PM Review and Reply	14	01-Jan-23	14-Jan-23	22-Dec-22	04-Jan-23	-10			}		PMI No. 0	32 - PM Review a	nd Reply						
	construction of Trench for Underground Incoming Watermain Diversion PMI No. 034 - Quotation Preparation and Submission	152 21	12-Nov-22 A	14-Jan-23	16-Nov-22	30-Nov-22	-45				34 0	on Prono	on and Submissio							
	PMI No. 034 - Quotation Preparation and Submission PMI No. 034 - PM Review and Reply	21 14	12-Nov-22 A 01-Jan-23	01-Jan-23 14-Jan-23	16-Nov-22 17-Nov-22	16-Nov-22 30-Nov-22	-45					4	on and Submissio				1 			
	construction of Trench for Underground Utilities Diversion along Grid B (CLP)	152	26-Oct-22 A	14-Jan-23	30-Nov-22	14-Dec-22	-31											+-¦		
	PMI No. 035 - Quotation Preparation and Submission	21	26-Oct-22 A	01-Jan-23	30-Nov-22	30-Nov-22	-31			PMI No. 0			on and Submissic				 			
	PMI No. 035 - PM Review and Reply rainage Diversion at DDFB BP1	14	01-Jan-23	14-Jan-23	01-Dec-22	14-Dec-22	-31					PMI No. 0	35 - PM Review a	nd Reply						
	PMI No. 036 - Quotation Preparation and Submission	152 21	05-Nov-22 A 05-Nov-22 A	14-Jan-23 01-Jan-23	27-Sep-22 27-Sep-22	11-Oct-22 27-Sep-22	-95			PMI No. 0) 36 - Quotat	ion Preparati	on and Submissic	 n						
												- parati				· · · · · ·	1	<u> </u>		
Paul Y	Remaining Level of Effort	• •	Milesto	Contra	act YL/2021/0)1 - Lok Ma C	hau Loc	op Mai	in Works	Packan	e 1 - Co	ontract 3			ID : YLC3-DP3-UPD11			onth Rolling Pro	0	
	Remaining Level of Effort 中国铁建							•		•					: YL202101 C3 MPR App B-3MRP 81-Dec-22 / Page 1 of 4	Date 31-Dec-22	MPR No. 11	sion	Checked	Ap
	中国铁建 Actual Work Remaining Work					Three Mon		my	rivyral	mille				Date:	1-200-22 / Fage I OL 4			I		
	- Chun Wo – CRCC JV Critical Remaining Work		1													1				



	Activity Name	Orig Dur	Early Sta	rt Early Finish	Late Start	Late Finish	Total Float	er 18
PMI036-120	PMI No. 036 - PM Review and Reply	14	01-Jan-2	3 14-Jan-23	28-Sep-22	11-Oct-22	-95	
PMI No. 038 - F	Revised Drawings for Lok Ma Chau Station Modification	152	15-Nov-22	2 A 14-Jan-23	24-Oct-22	07-Nov-22	-68	
PMI038-110	PMI No. 038 - Quotation Preparation and Submission	21	15-Nov-22		24-Oct-22	24-Oct-22	-68	
	PMI No. 038 - PM Review and Reply	14	01-Jan-2		25-Oct-22	07-Nov-22	-68	
	Revised Drawings for Lok Ma Chau Station Structural Modification	152	15-Nov-22		24-Oct-22	07-Nov-22	-68	
	PMI No. 039 - Quotation Preparation and Submission	21	15-Nov-22		24-Oct-22	24-Oct-22	-68	
	PMI No. 039 - PM Review and Reply	14	01-Jan-2		25-Oct-22	07-Nov-22	-68	
	Design Updates of Double-deck Footbridge	152	24-Nov-22		07-Sep-22	21-Sep-22	-115	
	PMI No. 044 - Quotation Preparation and Submission	21	24-Nov-22		07-Sep-22	07-Sep-22	-115	
PMI044-120	PMI No. 044 - PM Review and Reply	14	01-Jan-2		08-Sep-22	21-Sep-22	-115	
bmissions	s and Preparation	135	01-Apr-22	2 A 02-Jun-23	07-Mar-22	26-Aug-26	460	
eliminary Sul	Ibmissions	0	01-Jan-2	3 01-Jan-23	07-Mar-22	14-Mar-22	-292	[
RE-340	PS 1.16C - Submit Traffic Impact Assessment (TIA)	0		01-Jan-23*		07-Mar-22	-299	
RE-460	PS 1.111 - Submit Emergency Unit and Supporting Machinery and Equipment	0		01-Jan-23*		14-Mar-22	-292	
		251	16-May-22		31-Aug-22	10-May-25	571	
Ibletting								
RE-770	Subletting for Contractor Office (Cannot Proceed, AD3/AD4 not available)	30	03-Jan-2		24-Sep-22	31-Oct-22	-81	
RE-900	Subletting for Other Sub-contractors, Consultants, Service Providers	120	16-May-22		07-Dec-24	10-May-25	571	
	Vorks at MTR Lok Ma Chau Station	40	03-Jan-2		09-Sep-22	28-Oct-22	-93	
PRE-255	Subletting for ABWF Modification Works at MTR Lok Ma Chau Station	40	03-Jan-2		09-Sep-22	28-Oct-22	-93	
levated PTI		161	31-Aug-22	2A 17-Mar-23	31-Aug-22	10-Jul-23	90	
PRE-270	Subletting for Elevated PTI ELS Works	30	03-Jan-2	3 10-Feb-23	21-Feb-23	27-Mar-23	38	
PRE-280	Subletting for Elevated PTI RC Structure	30	03-Jan-2	3 10-Feb-23	27-Apr-23	02-Jun-23	90	
PRE-285	Subletting for Elevated PTI Structure Precast Units (Fabrication and Installation)	30	03-Jan-2	3 10-Feb-23	15-Nov-22	19-Dec-22	-39	
PRE-295	Subletting for Elevated PTI Lift and Escalator Installation	30	11-Feb-2	3 17-Mar-23	03-Jun-23	10-Jul-23	90	
PRE-950	Subletting for Elevated PTI Lighting System	30	31-Aug-22	2 A 10-Feb-23*	31-Aug-22	07-Oct-22	-101	·
ouble Deck Fo		44	08-Sep-22	2A 10-Feb-23	30-Sep-22	05-Nov-22	-76	
PRE-310	Subletting for Double Deck Footbridge Bored Piling Works	30	08-Sep-22		30-Sep-22	05-Nov-22	-76	
PRE-320	Subletting for Double Deck Footbridge ELS Works	30	17-Sep-22		30-Sep-22	05-Nov-22	-76	
PRE-330	Subletting for Double Deck Footbridge Structure	30	26-Sep-22		30-Sep-22	05-Nov-22	-76	
	emporary Works Submissions	303	01-Apr-22		16-Sep-22	26-Aug-26	997	
	_ • • •			· · ·	-			
	Vorks at MTR Lok Ma Chau Station	170	09-Sep-22		03-Oct-22	26-Aug-26	1000	
PRE-220	Prepare, Submit, Processing & Approval for Modification Works at MTR Lok Ma Chau Static	22	09-Sep-22		03-Oct-22	28-Oct-22	-93	
E&M Diversion	n (CWP, SWP, lighting & power socket) near Wall Opening at L1	85	15-Sep-22		13-Oct-22	26-Aug-26	1027	
Design Submis		17	06-Dec-22		26-Aug-26	26-Aug-26		
PRE-0806	Approval from MTR and others on Design Drawing Submissions for E&M Diversion near Wi	17	06-Dec-22	2 A 24-Dec-22 A	26-Aug-26	26-Aug-26		
Material Subm	nission	18	07-Nov-22	2 A 27-Jan-23	07-Nov-22	26-Nov-22	-46	
PRE-0810	Approval from MTR and others on Material Submissions for E&M Diversion near Wall Open	18	07-Nov-22	2A 27-Jan-23	07-Nov-22	26-Nov-22	-46	
Method Statem	ment Submission	73	15-Sep-22	2A 06-Mar-23	13-Oct-22	10-Dec-22	-66	
PRE-0811	Preparation & Submission of Method Statement for E&M Diversion (CWP, SWP, Lighting &	23	15-Sep-22	2 A 03-Jan-23	13-Oct-22	13-Oct-22	-66	
PRE-0812	Comment from MTR and others on Method Submissions for E&M Diversion near Wall Ope	19	14-Oct-22	A 28-Jan-23	14-Oct-22	04-Nov-22	-66	·
PRE-0813	Resubmission of Method Submissions for E&M Diversion near Wall Opening at L1	13	05-Nov-22	2A 13-Feb-23	05-Nov-22	19-Nov-22	-66	
PRE-0814	Approval from MTR and others on Method Submissions for E&M Diversion near Wall Open	18	21-Nov-22	2A 06-Mar-23	21-Nov-22	10-Dec-22	-66	
	E&M Modification of AHU-018 at L1	42	11-Nov-22		03-Dec-22	26-Aug-26	1064	
Design Submis		42	11-Nov-22		03-Dec-22	26-Aug-26	1064	
PRE-0819	Resubmission of Design Drawings for Relocation & E&M Modification of AHU-018 at L1	13	11-Nov-22		03-Dec-22	17-Dec-22	-23	
PRE-0821	Approval from MTR and others on Material Submissions for E&M Diversion near Wall Open	16	12-Dec-22		26-Aug-26	26-Aug-26		
Material Subm		9	06-Dec-22		19-Dec-22	19-Dec-22		
PRE-0825	Approval from MTR and others on Material Submissions for Relocation & E&M Modification	9	06-Dec-22		19-Dec-22	19-Dec-22		
	n for Existing Block Wall at L1	69	01-Dec-22		06-Jan-23	27-Feb-23	0	·
		69	01-Dec-22		07-Jan-23	27-Feb-23	0	¦
Design Submis							0	
PRE-0832	ICE Certification for Design Drawings of E&M Diversion for Existing Block Wal at L1	13	01-Dec-22		07-Jan-23	07-Jan-23		
PRE-0833	Comment from MTR & others on Design Drawings for E&M Diversion for Existing Block Wa	7	01-Dec-22		07-Jan-23	07-Jan-23	_	·
PRE-0834	Resubmission of Design Drawings for E&M Diversion for Existing Block Wall at L1	12	09-Dec-22		07-Jan-23	20-Jan-23	4	·
PRE-0835	ICE Certification for Design Drawing Resubmissions of E&M Diversion for Existing Block Wa	9	17-Jan-2		26-Jan-23	04-Feb-23	4	
PRE-0836	Approval from MTR and others on Design Drawing Submissions for E&M Diversion for Exist	19	06-Feb-2		06-Feb-23	27-Feb-23	0	
Material Subm	nission	44	01-Dec-22	2 A 19-Jan-23	07-Jan-23	28-Jan-23	4	
PRE-0838	Comment from MTR and others on Material Submissions for E&M Diversion for Existing Blc	19	01-Dec-22	2 A 22-Dec-22 A	07-Jan-23	07-Jan-23		
PRE-0839	Resubmission of Material Submissions for E&M Diversion for Existing Block Wall at L1	10	23-Dec-22	2 A 06-Jan-23 A	07-Jan-23	07-Jan-23		
PRE-0840	Approval from MTR and others on Material Submissions of E&M Diversion for Existing Blod	15	07-Jan-23	A 19-Jan-23	07-Jan-23	28-Jan-23	4	
Method Staten	ment Submission	41	15-Dec-22		06-Jan-23	11-Feb-23	3	
PRE-0842	Comment from MTR and others on Method Submissions for E&M Diversion for Existing Blc	16	15-Dec-22		06-Jan-23	06-Jan-23		
PRE-0843	Resubmission on Method Submissions for E&M Diversion for Existing Block Wall at L1	13	06-Jan-23		06-Jan-23	20-Jan-23	3	
PRE-0844	Approval from MTR and others on Method Submissions of E&M Diversion for Existing Block	15	18-Jan-2		26-Jan-23	11-Feb-23	3	
	n near Wall Opening at L2 (PCU-186, PCU-187, Air ducts, Refigerant Pipes, Lighting, etc.	136	18-Oct-22		18-Oct-22	28-Jan-23	-54	·
Design Submis		55	09-Dec-22		08-Dec-22	28-Jan-23	-18	[
PRE-0848	Comment from MTR & others on Design Drawings for E&M Diversion near Wall Opening at	39	09-Dec-22		08-Dec-22	08-Dec-22	-18	·
PRE-0646 PRE-0849	Resubmission of Design Drawings for E&M Diversion near Wall Opening at L2	13	09-Dec-22 03-Jan-2		08-Dec-22	23-Dec-22	-10	·
PRE-0849 PRE-0850	ICE Certification for Design Drawing Resubmissions for E&M Diversion near Wall Opening at L2				24-Dec-22		-18	
		10	18-Jan-2			07-Jan-23		
PRE-0851	Approval from MTR and others on Design Drawing Submissions for E&M Diversion near Wa	14	03-Feb-2		09-Jan-23	28-Jan-23	-18	·
Material Subm		62	03-Jan-2		18-Oct-22	30-Dec-22	-63	·
PRE-0852	Preparation & Submission of Materials for E&M Diversion near Wall Opening at L2	13	03-Jan-2		18-Oct-22	01-Nov-22	-63	
PRE-0853	Comment from MTR and others on Material Submissions for E&M Diversion near Wal Ope	19	18-Jan-2		02-Nov-22	23-Nov-22	-63	
PRE-0854	Resubmission of Material Submissions for E&M Diversion near Wall Opening at L2	13	14-Feb-2		24-Nov-22	08-Dec-22	-63	·
PRE-0855	Approval from MTR and others on Material Submissions for E&M Diversion near Wall Open	17	01-Mar-2		09-Dec-22	30-Dec-22	-63	
-	ment Submission	136	18-Oct-22		15-Nov-22	13-Jan-23	-63	
PRE-0856	Preparation & Submission of Method Statement for E&M Diversion near Wall Opening at L:	72	18-Oct-22	2 A 03-Jan-23	15-Nov-22	15-Nov-22	-38	· · · · · · · · · · · · · · · · · · ·
PRE-0857	Comment from MTR and others on Method Submissions for E&M Diversion near Wall Ope	19	03-Jan-2	3 28-Jan-23	16-Nov-22	07-Dec-22	-38	
PRE-0858	Resubmission of Method Submissions for E&M Diversion near Wall Opening at L2	13	30-Jan-2	3 13-Feb-23	08-Dec-22	22-Dec-22	-38	
	Approval from MTR and others on Method Submissions for E&M Diversion near Wall Open	16	15-Mar-2	3 01-Apr-23	23-Dec-22	13-Jan-23	-63	
PRE-0859				·	12-Dec-22	31-Jan-23	-16	
	tion for AHU-025 at L2	58	06-Dec-22	-A 1010020	TE DOULE	01 0411 20	-10	•
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Paul Y. – Chun Wo – CRCC JV

Critical Remaining Work

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-	PMI No.	039 - Quotati	on Preparatio	on and Subr	ission														
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-	PMI No	044 - Quotati	n Prenaratio	on and Subr	ission														
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-	• PS 1.111	- Submit Em	ergency Unit	and Suppon	ing Mac	ninery	y and Equip	ment									 		
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-	l Prepa	aration & Sub	mission of M	ethod Staten								near Wall Ope E&M Diversib			11		 		
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-						CE Çe	ertification f	or Design Dr	awing Resu			E&M Diversion							
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-	I Com	ment from MT		on Design Dr bmission of L							atl2	 							
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-			Prena	aration & Sub	mission	of Ma	aterials for F	&M Diversio	n near Wall	Open	ing at I	2		 			 		
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-											Resu	omission of M	laterial Subi			ion near Wall	*		
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-	l Prepa	aration & Sub	mission of M	ethod Staten								 			· · · · · · · · · · · · · · · · · · ·			 	
-					Comm	nent fr	om MTR ar	+		4		E&M Diversip			+				
-								Resubr	nission of M	ethod	Submi	ssions for E&I	VI DIVERSION	near Wall Op	pening at L		om MTR and	l others on N	lethod Su
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-	Packa	ge 1 - Co	ntract ?				Project II	D : YLC3-DP	3-UPD11					•		onth Rolling Pi	-		
		JC 1 - 00	maol J					YL202101 C		B-3M	RP		Dat 31-Dec-22		Revis PR No. 11	sion	Checked	Appro	oved
l	mme						Date : 31	-Dec-22 / Pa	ge 2 of 4				01-DeC-22		111NU. 11				
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	Activity Name	Orig Dur	Early Start	Early Finish	Late Start	Late Finish	Total Float	18
Design Submi	ission	55	09-Dec-22 A	18-Feb-23	12-Dec-22	31-Jan-23	-16	
PRE-0864	Resubmission of Design Drawings for E&M Modification of AHU-025 at L2	12	09-Dec-22 A	16-Jan-23	12-Dec-22	24-Dec-22	-16	
PRE-0865	ICE Certification for Design Drawing Resubmissions of E&M Modification of AHU-025 at L2	10	17-Jan-23	01-Feb-23	28-Dec-22	09-Jan-23	-16	·
PRE-0866	Approval from MTR and others on Design Drawing Submissions for E&M Modification of AF	15	02-Feb-23	18-Feb-23*	10-Jan-23	31-Jan-23	-16	
laterial Subn	nission	9	06-Dec-22 A	15-Dec-22 A	13-Jan-23	13-Jan-23		·
PRE-0870	Approval from MTR and others on Material Submissions for E&M Modification of AHU-025 ;	9	06-Dec-22 A	15-Dec-22 A	13-Jan-23	13-Jan-23		
	ment Submission	20	28-Dec-22 A	18-Jan-23	28-Dec-22	13-Jan-23	-4	
PRE-0873	Resubmission of Method Submissions for E&M Modification of AHU-025 at L2	7	28-Dec-22 A	05-Jan-23 A	28-Dec-22	28-Dec-22		·
PRE-0874	Approval from MTR and others on Method Submissions for E&M Modification of AHU-025 :	14	05-Jan-23 A	18-Jan-23	28-Dec-22	13-Jan-23	-4	
	n for Existing Block Wall at L2	78	06-Dec-22 A	14-Mar-23	20-Dec-22	04-Mar-23	-8	
esign Submi		78	06-Dec-22 A	14-Mar-23	21-Dec-22	04-Mar-23	-8	
PRE-0877 PRE-0878	Approval from MTR and others on Design Drawing Submissions for E&M Modification of Al-	13	06-Dec-22 A	20-Dec-22 A	21-Dec-22 21-Dec-22	21-Dec-22	0	
PRE-0878 PRE-0879	Preparation & Submission of Design Drawings for E&M Modification of AHU-025 at L2	16 9	21-Dec-22 A	20-Jan-23 04-Feb-23	12-Jan-23	11-Jan-23 26-Jan-23	-8 -8	
PRE-0879	ICE Certification for Design Drawings of E&M Modification of AHU-025 at L2 Comment from MTR & others on Design Drawings for E&M Modification of AHU-025 at L2	13	26-Jan-23 06-Feb-23	20-Feb-23	27-Jan-23	10-Feb-23	-0 -8	
PRE-0881	Resubmission of Design Drawings for E&M Modification of AHU-025 at L2	19	21-Feb-23	14-Mar-23*	11-Feb-23	04-Mar-23	-0	·
laterial Subn		48	06-Dec-22 A	07-Feb-23	28-Dec-22	02-Feb-23	-4	
PRE-0883	Comment from MTR and others on Material Submissions for E&M Modification of AHU-025	17	06-Dec-22 A	24-Dec-22 A	28-Dec-22	28-Dec-22	-	·
PRE-0884	Resubmission of Material Submissions for E&M Modification of AHU-025 at L2	12	28-Dec-22 A	16-Jan-23	28-Dec-22	11-Jan-23	-4	
PRE-0885	Approval from MTR and others on Material Submissions for E&M Modification of AHU-025	15	17-Jan-23	07-Feb-23	12-Jan-23	02-Feb-23	-4	
	nent Submission	53	20-Dec-22 A	27-Feb-23	20-Dec-22	16-Feb-23	-9	·
PRE-0887	Comment from MTR and others on Method Submissions for E&M Modification of AHU-025	16	20-Dec-22 A	20-Jan-23	20-Dec-22	10-Jan-23	-9	·
PRE-0888	Resubmission of Method Submissions for E&M Modification of AHU-025 at L2	9	26-Jan-23	04-Feb-23	11-Jan-23	20-Jan-23	-9	·
PRE-0889	Approval from MTR and others on Method Submissions for E&M Modification of AHU-025 (19	06-Feb-23	27-Feb-23	26-Jan-23	16-Feb-23	-9	
rengthening	••	78	17-Dec-22 A	25-Mar-23	03-Jan-23	25-Mar-23	-5	
	Shop Drawings Submission	54	17-Dec-22 A	25-Feb-23	03-Jan-23	25-Feb-23	0	
PRE-1005	Preparation & submission of materials and shop drawings for strenthening works	7	17-Dec-22 A	24-Dec-22 A	03-Jan-23	03-Jan-23		
PRE-1015	comment from MTR and others on materials and shop drawings to strengthering works	18	03-Jan-23	27-Jan-23	03-Jan-23	27-Jan-23	0	
PRE-1025	Resubmission of materials and shop drawings submission for strengthening works	7	28-Jan-23	04-Feb-23	28-Jan-23	04-Feb-23	0	·
PRE-1035	Approval from MTR and Others on materials and shop drawings submission for Strengther	18	06-Feb-23	25-Feb-23*	06-Feb-23	25-Feb-23	0	·
	nent Submission	67	03-Jan-23	25-Mar-23	03-Jan-23	25-Mar-23	0	
PRE-1045	Preparation & submission of method statement for Strengthening works	19	03-Jan-23	28-Jan-23	03-Jan-23	28-Jan-23	0	
PRE-1055	Comment from MTR and others on materials and shop drawings submission for Strengthe	18	30-Jan-23	18-Feb-23	30-Jan-23	18-Feb-23	0	
PRE-1065	Resubmission of materials and shop drawings submission for strenthening works	12	20-Feb-23	04-Mar-23	20-Feb-23	04-Mar-23	0	
PRE-1075	Approval from MTR and Others on materials and shop drawings submission for Strengther	18	06-Mar-23	25-Mar-23*	06-Mar-23	25-Mar-23	0	
zzanine Flo		81	17-Dec-22 A	29-Mar-23	13-Feb-23	10-May-23	31	
laterials and	Shop Drawings Submission	59	17-Dec-22 A	03-Mar-23	13-Feb-23	13-Apr-23	31	
PRE-1085	Preparation & submission of materials and shop drawings for Mezzanine Floor works	7	17-Dec-22 A	24-Dec-22 A	13-Feb-23	13-Feb-23		
PRE-1095	comment from MTR and others on materials and shop drawings submission for Mezzanine	18	03-Jan-23	27-Jan-23	13-Feb-23	04-Mar-23	31	·;-
PRE-1105	Resubmission of materials and shop drawings submission for Mezzanine Floor works	12	28-Jan-23	10-Feb-23	06-Mar-23	18-Mar-23	31	
PRE-1115	Approval from MTR and Others on materials and shop drawings submission for Mezzanine	18	11-Feb-23	03-Mar-23	20-Mar-23	13-Apr-23	31	·
ethod Stater	ment Submission	70	03-Jan-23	29-Mar-23	15-Feb-23	10-May-23	31	
PRE-1125	Preparation & submission of method statement for Mezzanine Floor works	24	03-Jan-23	03-Feb-23	15-Feb-23	14-Mar-23	33	
PRE-1135	Comment from MTR and others on materials and shop drawings submission for Mezzanine	18	04-Feb-23	24-Feb-23	15-Mar-23	04-Apr-23	33	
PRE-1145	Resubmission of materials and shop drawings submission for Mezzanine Floor works	12	25-Feb-23	10-Mar-23	06-Apr-23	22-Apr-23	33	
PRE-1155	Approval from MTR and Others on materials and shop drawings submission for Mezzanine	14	14-Mar-23	29-Mar-23	24-Apr-23	10-May-23	31	
arding Erect	tion (Stage 2)	77	03-Jan-23	11-Apr-23	22-Dec-22	29-Mar-23	-7	
esign Submi	ission	65	03-Jan-23	23-Mar-23	22-Dec-22	15-Mar-23	-7	1
PRE-1295	ICE Certification for Design Drawings for Hoarding Erection (Stage 2)	9	03-Jan-23	12-Jan-23	22-Dec-22	04-Jan-23	-7	
PRE-1305	Comment from MTR and Others on Design Drawings for Hoarding Erection (Stage 2)	14	13-Jan-23	02-Feb-23	05-Jan-23	20-Jan-23	-7	
PRE-1315	Resubmission of Design Drawings for Hoarding Erection (Stage 2)	12	03-Feb-23	16-Feb-23	26-Jan-23	08-Feb-23	-7	
PRE-1405	ICE Certification for resubmission Design Drawings for Hoarding Erection (Stage 2)	12	17-Feb-23	02-Mar-23	09-Feb-23	22-Feb-23	-7	
PRE-1415	Approval from MTR and Others on Desgin Drawings for Hoarding Erection (Stage 2)	18	03-Mar-23	23-Mar-23	23-Feb-23	15-Mar-23	-7	
laterials Sub	mission	44	13-Jan-23	09-Mar-23	19-Jan-23	15-Mar-23	5	
PRE-1375	Comment from MTR and others on materials submission for Hoarding Erection (Stage 2)	14	13-Jan-23	02-Feb-23	19-Jan-23	08-Feb-23	5	
PRE-1385	Resubmission of materials submission for Hoarding Erection (Stage 2)	12	03-Feb-23	16-Feb-23	09-Feb-23	22-Feb-23	5	
PRE-1395	Approval from MTR and Others on materials submission for Hoarding Erection (Stage 2)	18	17-Feb-23	09-Mar-23	23-Feb-23	15-Mar-23	5	
	nent Submission	68	13-Jan-23	11-Apr-23	05-Jan-23	29-Mar-23	-7	·
PRE-1325	Preparation & submission of method statement for Hoarding Erection (Stage 2)	20	13-Jan-23	09-Feb-23	05-Jan-23	01-Feb-23	-7	
PRE-1335	Comment from MTR and Others on method statement for Hoarding Erection (Stage 2)	18	10-Feb-23	02-Mar-23	02-Feb-23	22-Feb-23	-7	
PRE-1345	Resubmission of method statement for Hoarding Erection (Stage 2)	12	03-Mar-23	16-Mar-23	23-Feb-23	08-Mar-23	-7	
PRE-1355	Approval from MTR and Other on method statement for Hoarding Erection (Stage 2)	18	17-Mar-23	11-Apr-23	09-Mar-23	29-Mar-23	-7	
vated PTI		60	01-Apr-22 A	17-Mar-23	16-Sep-22	26-Nov-22	-88	
E-700	Prepare, Submit, & Approval for Modification Works at Existing Spur Line PTI	60	01-Apr-22 A	17-Mar-23	16-Sep-22	26-Nov-22	-88	
uble Deck F		50	11-Feb-23	14-Apr-23	07-Nov-22	06-Jan-23	-76	
E-515	Method Statement Prepare, Submit, & Approval for Double Deck Footbridge Bored Piling V	50	11-Feb-23	14-Apr-23	07-Nov-22	06-Jan-23	-76	
struction		229	22-Jun-22 A	16-Feb-24	22-Jun-22	07-Jun-24	44	
lification W	/orks at MTR Lok Ma Chau Station	122	22-Jun-22 A	19-May-23	22-Jun-22	21-Apr-23	-11	
paration		122	22-Jun-22 A	19-May-23	22-Jun-22	27-Feb-23	-32	
IC-108	ABWF Submission of Shop Drawings for Approval	52	28-Jan-23	29-Mar-23	03-Oct-22	02-Dec-22	-93	
IC-109	ABWF Submission of Method Statement for Approval	52	28-Jan-23	29-Mar-23	07-Oct-22	06-Dec-22	-90	
IC-120	Submission of FSI 314	69	23-Feb-23	19-May-23*	01-Dec-22	27-Feb-23	-65	·
1C-125	Safety Induction Training (RSI) and CP (NT) Training by the Employer	96	22-Jun-22 A	04-May-23*	22-Jun-22	15-Oct-22	-160	
1C-135	Training for Fire Marshal by Employer	53	24-Aug-22 A	04-May-23*	09-Oct-22	30-Nov-22	-155	
1C-150	Erection of External Scaffold and Platform for Delivery of Materials to Station	20	03-Jan-23	30-Jan-23	07-Dec-22	31-Dec-22	-20	·
rel 1 + 1M (N		111	03-Jan-23	19-May-23	08-Nov-22	14-Apr-23	-29	
1C-255	LMC L1 - E&M Diversion (CWP, SWP, Lighting & Power Socket) near Wall Opening at L1	12	07-Mar-23	20-Mar-23*	12-Dec-22	24-Dec-22	-68	
1C-270	LMC L1 - Installation of Support for Leaky Cables	15	03-Jan-23*	19-Jan-23	12-Dec-22	30-Dec-22	-16	
1C-275	LMC L1 – Diversion of leaky cables (by MTR's contractor)	12	20-Jan-23	07-Feb-23*	03-Jan-23	16-Jan-23	-16	
IC-280	LMC L1 - Removal works for Louvres opening	12	04-Mar-23	17-Mar-23	08-Nov-22	21-Nov-22	-95	
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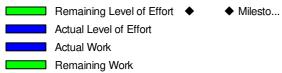
Critical Remaining Work

Paul Y. – Chun Wo – CRCC JV

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						ICE Certific	ation for De					HU-025 at L2					
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						Appro	val from MT	R and others	s on N	Material	Submissions	for E&M Modification of	AHU-025 a	t L2			
				Comment from M	TR and	others on M	ethod Subrr	issions for E	&M N	/lodificat	ion of AHU-02	25 at L2					
		L				! !			!			f AHU-025 at L2	1 1 1				
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		L	 , , , , , , , , , , , , ,									nission for Mezzanine F	*				
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		L	<u> </u> <u> </u>						!			Prepare, Su	ipmit, & App	roval for Modif	ication Work	s at Existing	Spur Line
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		·			Erection	n of External	Scaffold and	Platform fo	r Deliv	very of I	Materials to St	tation	÷				
					of C	nort for l '	ny Cables	, ,					1 _¦ - E&M Div	ersion (CWP, §	SWP, Lighting	g & Power So	pcket) nea
		L		C L1 - Installation	01 5Up	/		h of leaky ca	bles	(bv MT	R's contractor))					
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orks	Packag	je 1 - Co	ntract 3			-) : YLC3-DF YL202101 C	'3-UPD11 3 MPR App l	B-3M	RP		Date	Revis		Checked	Appr	oved
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	14 04-Feb-23	20-Feb-23	22-Sep-22	10-Oct-22	-107					Stage 1	- Pavement Works f	or Stage 2 Implementatio	n	
	57 21-Feb-23	03-May-23	11-Oct-22	15-Dec-22	-107									
5	57 21-Feb-23	03-May-23	11-Oct-22	15-Dec-22	-107					 				
	1 21-Feb-23	21-Feb-23	11-Oct-22	11-Oct-22	-107					Stage	2 - 1st TTA Traffic D	version		
Stage 2) 5	56 22-Feb-23	03-May-23	12-Oct-22	15-Dec-22	-107									
9	90 11-Feb-23	02-Jun-23	07-Dec-24	29-Mar-25	541									
9	90 11-Feb-23	02-Jun-23	07-Dec-24	29-Mar-25	541	······	I I I I		·····					<u>4</u> <u>4</u>
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78	80 11-Feb-23	29-Sep-25	06-Apr-22	23-Nov-24	-250									· · ·
	8	90 11-Feb-23 90 11-Feb-23 810 03-Jan-23 30 03-Jan-23 780 11-Feb-23	90 11-Feb-23 02-Jun-23 810 03-Jan-23 29-Sep-25 30 03-Jan-23 10-Feb-23	90 11-Feb-23 02-Jun-23 07-Dec-24 810 03-Jan-23 29-Sep-25 01-Mar-22 30 03-Jan-23 10-Feb-23 01-Mar-22	90 11-Feb-23 02-Jun-23 07-Dec-24 29-Mar-25 810 03-Jan-23 29-Sep-25 01-Mar-22 23-Nov-24 30 03-Jan-23 10-Feb-23 01-Mar-22 04-Apr-22	90 11-Feb-23 02-Jun-23 07-Dec-24 29-Mar-25 541 810 03-Jan-23 29-Sep-25 01-Mar-22 23-Nov-24 -250 30 03-Jan-23 10-Feb-23 01-Mar-22 04-Apr-22 -250	90 11-Feb-23 02-Jun-23 07-Dec-24 29-Mar-25 541 810 03-Jan-23 29-Sep-25 01-Mar-22 23-Nov-24 -250 30 03-Jan-23 10-Feb-23 01-Mar-22 04-Apr-22 -250	90 11-Feb-23 02-Jun-23 07-Dec-24 29-Mar-25 541 641 </td <td>90 11-Feb-23 02-Jun-23 07-Dec-24 29-Mar-25 541 810 03-Jan-23 29-Sep-25 01-Mar-22 23-Nov-24 -250 30 03-Jan-23 10-Feb-23 01-Mar-22 04-Apr-22 -250</td> <td>90 11-Feb-23 02-Jun-23 07-Dec-24 29-Mar-25 541 810 03-Jan-23 29-Sep-25 01-Mar-22 23-Nov-24 -250</td> <td>90 11-Feb-23 02-Jun-23 07-Dec-24 29-Mar-25 541 <th1< th=""> <th1< th=""> 1</th1<></th1<></td> <td>90 11-Feb-23 02-Jun-23 07-Dec-24 29-Mar-25 541 810 03-Jan-23 29-Sep-25 01-Mar-22 23-Nov-24 -250 30 03-Jan-23 10-Feb-23 01-Mar-22 04-Apr-22 -250</td> <td>90 11-Feb-23 02-Jun-23 07-Dec-24 29-Mar-25 541 810 03-Jan-23 29-Sep-25 01-Mar-22 23-Nov-24 -250 30 03-Jan-23 10-Feb-23 01-Mar-22 04-Apr-22 -250</td> <td>90 11-Feb-23 02-Jun-23 07-Dec-24 29-Mar-25 541 1000000000000000000000000000000000000</td>	90 11-Feb-23 02-Jun-23 07-Dec-24 29-Mar-25 541 810 03-Jan-23 29-Sep-25 01-Mar-22 23-Nov-24 -250 30 03-Jan-23 10-Feb-23 01-Mar-22 04-Apr-22 -250	90 11-Feb-23 02-Jun-23 07-Dec-24 29-Mar-25 541 810 03-Jan-23 29-Sep-25 01-Mar-22 23-Nov-24 -250	90 11-Feb-23 02-Jun-23 07-Dec-24 29-Mar-25 541 1 <th1< th=""> <th1< th=""> 1</th1<></th1<>	90 11-Feb-23 02-Jun-23 07-Dec-24 29-Mar-25 541 810 03-Jan-23 29-Sep-25 01-Mar-22 23-Nov-24 -250 30 03-Jan-23 10-Feb-23 01-Mar-22 04-Apr-22 -250	90 11-Feb-23 02-Jun-23 07-Dec-24 29-Mar-25 541 810 03-Jan-23 29-Sep-25 01-Mar-22 23-Nov-24 -250 30 03-Jan-23 10-Feb-23 01-Mar-22 04-Apr-22 -250	90 11-Feb-23 02-Jun-23 07-Dec-24 29-Mar-25 541 1000000000000000000000000000000000000





Critical Remaining Work

Contract YL/2021/01 - Lok Ma Chau Loop Main Works Three Month Rolling Progra

ks Package	1 - Contract 3
amme	

	Three Month Rolling	g Programme	
Date	Revision	Checked	Approved
31-Dec-22	MPR No. 11		

APPENDIX B ACTION AND LIMIT LEVELS

Appendix B - Action and Limit Levels

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

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

Location	Action Level, μg/m ³	Limit Level, µg/m ³
DMS – 1	184	
DMS-2A	166	200
DMS-3	166	- 260
DMS-4A	152	

Table B-3 Action and Limit Levels for Construction Noise

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

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

(*) reduce to 70 dB(A) for schools and 65 dB(A) during school examination periods.

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

Table B-4Action and Limit Levels for Water Quality

Note:

(1) Depth-averaged was calculated by taking the arithmetic means of reading of all three depths

(2) For DO, non-compliance of the water quality limit would occur when monitoring result at impact stations was lower that the limit.

(3) For SS & turbidity, non-compliance of the water quality limits would occur when monitoring result at impact stations was higher than the limits.

(4) The proposal of adopting 4 mg/L as the Limit Level of DO for the period from April to September due to seasonal change of DO was accepted by EPD via email on 10 Dec 2019.

APPENDIX C COPIES OF CALIBRATION CERTIFCATES

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High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET

						File No.	WMA21009/04/0	010	
Station	DMS-2A - Village Ho	use along Lok Ma Cha	u Road			Operator:	~ ~ ~		
Date:	10-Nov-22				Next	Due Date:	9-Jan-23		
Equipment No.:	WA-12-04					Serial No.	1659		
			Ambient	Condition				el esta par	
Temperatu	ure, Ta (K)	298.4	Pressure, Pa	ı (mmHg)		765	5.4		
		C	Drifice Transfer Sta	indard Informat	ion	GREAK AND			
Seria	il No.	2896	Slope, mc	0.0588	Intercept,		-0.01030		
Last Calibr	ration Date:	20-Jan-22			$bc = [\Delta H x (Pa/7)]$				
Next Calib	ration Date:	20-Jan-23		Qstd = $\{[\Delta H]$	x (Pa/760) x (298	8/Ta)] ^{1/2} -bc)	/ mc		
		<u>.</u>							
			Calibration of	TSP Sampler					
Calibration	Calibration Or		ice			<u></u>	HVS		
Point	ΔH (orifice), in. of water	[Δ H x (Pa/760) x (298/Ta)] ^{1/2}		Qstd (CFM) X - axis	ΔW (HVS), in. of water	[ΔW x (Pa	/760) x (298/Ta)] ^{1/2}	Y-axis	
1	12.8		3.59	61.25	7.0		2.65		
2	10.7		3.28	56.01	6.3		2.52		
3	8.9	2.99		51.10	5.4		2.33		
4	6.6		2.58	44.03	4.2		2.06		
5	3.4	I	1.85	31.65	2.4		1.55		
By Linear Regr	ession of Y on X								
Slope , mw = _	0.0378	-		Intercept, bw	0.3766	<u>.</u>			
	coefficient* =		980						
*If Correlation C	oefficient < 0.990,	check and recalibrate	8.						
				an a succession and a succession of the		a atri kakal di	New States and the second second	anan anana	
				Calculation		er et feretre		in transfil.	
		ve, take Qstd = 43 C							
From the Regress	sion Equation, the "	Y" value according f	to						
		mw x	ΔQ std + bw = [ΔW	x (Pa/760) x (298	$3/(T_a) ^{1/2}$				
Therefo	re, Set Point; W = ($mw x Qstd + bw)^2$	x (760 / Pa) x (Ta	/ 298) =	3.99				
Remarks:									

Conducted by: <u>It ka ll</u> Signature: Checked by: <u>III May III Signature</u>:

UN

Date: lo(h/w)Date: lo(u/w)

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High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET

						File No.	WMA21009/04/0	0011
Station	DMS-2A - Village Ho	ouse along Lok Ma Cha	u Road			Operator:		
Date:	5-Jan-23				Next	Due Date:		
Equipment No.:	WA-12-04					Serial No.	1659	
			Ambient	Condition		·		··· •
Temperat	ture, Ta (K)	291.5	Pressure, Pa			77(0.1	
					•	tore to		<u></u>
	al No.		Prifice Transfer Sta		Intercept,	· · ·	0.01020	
		2896	Slope, mc	0.0588 mc x Qstd +		-0.01030		
	oration Date:	20-Jan-22 20-Jan-23			x (Pa/760) x (298)			
						/]		
·:			Calibration of	TSP Sampler				
Calibration		Orfi				H	vs	
Point	ΔH (orifice), in. of water	[ΔH x (Pa/76	0) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water	[ΔW x (Pa	$[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ Y	
1	12.4		3.58	61.18	7.6		2.81	
2	10.5	3.30		56.31	6.7		2.63	
3	8.7		3.00	51.27	5.5		2.39	
4	6.9		2.67	45.68	4.6		2.18	
5	3.5		.90	32.58	2.6		1.64	
	ression of Y on X							
Slope , mw =				Intercept, bw	0.3050	l		
	coefficient* =		994					
*If Correlation (Coefficient < 0.990,	check and recalibrate	9.					
1997 - 1997 -		. ¹	Set Point C	alculation				N
From the TSP F	ield Calibration Cur	ve, take Qstd = 43 C						
From the Regres	sion Equation, the "	Y" value according t	0					
					1/2			
		mw x	$Qstd + bw = [\Delta W]$	x (Pa/760) x (298	3/Ta)]""			
Therefo	ore, Set Point; W = (mw x Qstd + bw $)^2$	x (760 / Pa) x (Ta	/ 298) =	4.13			
<u></u>	· · · · · ·				•			
Remarks:				······				

hein In Date: $\frac{f}{1}$ $\frac{1}{20^2}$ Date: $\frac{f}{1}$ $\frac{1}{100}$ Conducted by: <u>UL MAN HE</u> Signature: Checked by: <u>IP (a ll</u> Signature:

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High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET

							File No.	WMA21009/24/	0010	
Serial No	Station	DMS-3 - Village Hou	se along Old Border R	oad			Operator:	HL		
Ambient Condition Temperature, Ta (K) 298.6 Pressure, Pa (mmHg) 765.3 Orifice Transfer Standard Information Serial No. 2396 Slope, mc 0.0588 intercept, bc -0.01030 Serial No. 2396 Slope, mc 0.0588 intercept, bc -0.01030 Last Calibration Date: 20-Jan-23 Opting information Galibration of TSP Sampler Calibration Date: Collibration of TSP Sampler Calibration Orffice HVS Opting information MWK (Par/760) x (298/Ta) ^{1/2} Yeas Calibration Of TSP Sampler Calibration Of TSP Sampler Calibration Of Time Of TSP Sampler Calibration Of Time Of Time Of TSP Sampler Calibration Of TSP Sampler Calibration Corffice HVS Add (CPM) QW (YeM) (AW (HYS)) in [GW x (Par/760) x (298/Ta)] ^{1/2} Yeas <th colspa<="" td=""><td>Date:</td><td>10-Nov-22</td><td></td><td></td><td></td><td>Next</td><td>Due Date:</td><td>9-Jan-23</td><td></td></th>	<td>Date:</td> <td>10-Nov-22</td> <td></td> <td></td> <td></td> <td>Next</td> <td>Due Date:</td> <td>9-Jan-23</td> <td></td>	Date:	10-Nov-22				Next	Due Date:	9-Jan-23	
Temperature, Ta (K) 298.6 Pressure, Pa (mmHg) 765.3 Orifice Transfer Standard Information Serial No. 2896 Slope, me 0.0588 Intercept, bc -0.01030 Last Calibration Date: 20-Jan-22 me x Qstd + be = [Δ H x (Pa/760) x (298/Ta)] ^{1/2} Next Calibration Date: 20-Jan-23 Qstd = [Δ H x (Pa/760) x (298/Ta)] ^{1/2} Next Calibration of TSP Sampler Calibration Orfice HVS Orfice HVS Calibration of TSP Sampler Calibration of TSP Sampler IVE 10.6 3.26 55.73 6.8 2.61 3 8.4 2.91 49.63 5.3 2.31 2.31 4.66 4.2 2.05 5 4.0 2.00 34.30 2.6 1.62 Set Point Calculation	Equipment No.:	WA-12-24								
Temperature, Ta (K) 298.6 Pressure, Pa (mmHg) 765.3 Orifice Transfer Standard Information Serial No. 2896 Slope, me 0.0588 Intercept, bc -0.01030 Last Calibration Date: 20-Jan-22 me x Qstd + be = [Δ H x (Pa/760) x (298/Ta)] ^{1/2} Next Calibration Date: 20-Jan-23 Qstd = [Δ H x (Pa/760) x (298/Ta)] ^{1/2} Next Calibration of TSP Sampler Calibration Orfice HVS Orfice HVS Calibration of TSP Sampler Calibration of TSP Sampler IVE 10.6 3.26 55.73 6.8 2.61 3 8.4 2.91 49.63 5.3 2.31 2.31 4.66 4.2 2.05 5 4.0 2.00 34.30 2.6 1.62 Set Point Calculation				Ambient (Condition					
Orifice Transfer Standard Information Serial No. 2896 Stope, mc 0.0588 Intercept, bc -0.01030 Last Calibration Date: 20-Jan-22 mc x Qstd + bc = [AH x (Pa/760) x (298/Ta)]^{1/2} Next Calibration Date: 20-Jan-23 Qstd = [[AH x (Pa/760) x (298/Ta)]^{1/2} - bc] / mc Calibration of TSP Sampler Calibration of TSP Sampler Calibration of TSP Sampler Calibration of Mater AW (IVS), in: [AW x (Pa/760) x (298/Ta)]^{1/2} Y-aa Calibration of TSP Sampler Calibration of TSP Sampler Calibration of TSP Sampler Calibration of Water AW (IVS), in: [AW x (Pa/760) x (298/Ta)]^{1/2} Y-aa 1 12.1 3.49 5.53 7.9 2.82 2 10.6 3.26 55.73 6.8 2.661 3 8.4 2.91 49.63 3.1 Calibration coefficient =	Temperat	hure. Ta (K)	298.6			· · · ·	765	5.3		
Serial No. 2896 Slope, mc 0.0588 intercept, bc -0.01030 Last Calibration Date: 20-Jan-22 mc x Qstd + bc = [AH x (Pa/760) x (298/Ta)]^{1/2} - bc] / mc Next Calibration Date: 20-Jan-23 Qstd = [[AH x (Pa/760) x (298/Ta)]^{1/2} - bc] / mc Calibration of TSP Sampler Calibration of TSP Sampler HVS Calibration of TSP Sampler Calibration of TSP Sampler HVS Calibration of TSP Sampler Calibration of TSP Sampler HVS Orffee HVS Calibration of TSP Sampler Calibration of TSP Sampler HVS Calibration of Water Adv (CFM) Adv (CFM) Adv (CFM) Adv (CFM) Office HVS 10.6 3.26 Sampler Calibration Calibration Calibration Calibration Canve, take Qstd = 40					(
Serial No. 2896 Slope, mc 0.0588 intercept, bc -0.01030 Last Calibration Date: 20-Jan-22 mc x Qstd + bc = [AH x (Pa/760) x (298/Ta)]^{1/2} - bc] / mc Next Calibration Date: 20-Jan-23 Qstd = [[AH x (Pa/760) x (298/Ta)]^{1/2} - bc] / mc Calibration of TSP Sampler Calibration of TSP Sampler HVS Calibration of TSP Sampler Calibration of TSP Sampler HVS Calibration of TSP Sampler Calibration of TSP Sampler HVS Orffee HVS Calibration of TSP Sampler Calibration of TSP Sampler HVS Calibration of Water Adv (CFM) Adv (CFM) Adv (CFM) Adv (CFM) Office HVS 10.6 3.26 Sampler Calibration Calibration Calibration Calibration Canve, take Qstd = 40			Constraints of C	Drifice Transfer Sta	indard Informat	ion				
Next Calibration Date: 20-Jan-23 Qstd = [[AH x (Pa/760) x (298/Ta)]^{1/2} - bc] / me Calibration Orfice IVS ΔH (orifice), in, of water $[\Delta H x (Pa/760) x (298/Ta)]^{1/2}$ Qstd (CFM) X - axis ΔW (HVS), in. of water $[\Delta W x (Pa/760) x (298/Ta)]^{1/2}$ Y-axis 1 12.1 3.49 59.53 7.9 2.82 2 10.6 3.26 55.73 6.8 2.61 3 8.4 2.91 4.96,3 5.3 2.31 4 6.2 2.50 42.66 4.2 2.05 5 4.0 2.00 34.30 2.6 1.62 By Linear Regression of Y on X Set Point Calculation Correlation coefficient < 0.990, check and recalibrate.	Seri			Slope, mc						
Calibration of TSP Sampler Calibration of TSP Sampler Calibration Orfice HVS Calibration Orfice HVS Calibration Orfice HVS Calibration Orfice HVS Calibration Orfice Aut (DW (HVS), in: [AW x (Pa/760) x (298/Ta)] ^{1/2} Y-ax 1 12.1 3.49 System colspan="2">System colspan="2">System colspan="2">Colspan="2">Aut (HVS), in: [AW x (Pa/760) x (298/Ta)] ^{1/2} Y-ax 2 10.6 3.26 2.82 2 10.6 3.2.31 3 8.4 2.9.1 49.63 5.3 2.3.5 4 6.2 2.0.0 3 8.4 0.2.95 Set Point Calculation Correlation coefficient < 0.990, check and recalibrate. Therefore, Set Point; W = (mwx Qstd + bw = [\Delta W x (Pa/760) x (298	Last Calib	oration Date:	20-Jan-22							
Orfice HVS Calibration ΔH (orifice), in of water $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ $Qstd (CPM)$ ΔW (HVS), in. for water $[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ $Y-ax$ 1 12.1 3.49 59.53 7.9 2.82 2 10.6 3.26 55.73 6.8 2.61 3 8.4 2.91 49.63 5.3 2.31 4 6.2 2.50 42.66 4.2 2.05 5 4.0 2.00 34.30 2.6 1.62 By Linear Regression of Y on X Stope, mw =	Next Calil	bration Date:	20-Jan-23		Qstd = {[ΔH	x (Pa/760) x (298	[/Ta)] ^{1/2} -bc	} / mc		
Orfice HVS Calibration ΔH (orifice), in of water $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ $Qstd (CPM)$ ΔW (HVS), in. for water $[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ $Y-ax$ 1 12.1 3.49 59.53 7.9 2.82 2 10.6 3.26 55.73 6.8 2.61 3 8.4 2.91 49.63 5.3 2.31 4 6.2 2.50 42.66 4.2 2.05 5 4.0 2.00 34.30 2.6 1.62 By Linear Regression of Y on X Stope, mw =			•							
Calibration Point ΔH (orifice), in. of water $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ Qstd (CFM) X - axis ΔW (HVS), in. of water $[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ Y-axis 1 12.1 3.49 59.53 7.9 2.82 2 10.6 3.26 55.73 6.8 2.61 3 8.4 2.91 49.63 5.3 2.31 4 6.2 2.30 42.66 4.2 2.05 5 4.0 2.00 34.30 2.6 1.62 By Linear Regression of Y on X Stope, mw =				Calibration of	TSP Sampler					
Point ΔH (office), in, of water $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ $Qstd (CFM)$ of water ΔW (HVS), in. of water $[\Delta W \times (Pa/760) \times (298/Ta)]^{1/2}$ Y-ax 1 1.2.1 3.49 99.53 7.9 2.82 2 10.6 3.26 55.73 6.8 2.61 3 8.4 2.91 49.63 5.3 2.31 4 6.2 2.50 42.66 4.2 2.05 5 4.0 2.00 34.30 2.6 1.62 By Linear Regression of Y on X Stope , mw =	Calibration	Calibration Orfic					IT	VS		
2 10.6 3.26 55.73 6.8 2.61 3 8.4 2.91 49.63 5.3 2.31 4 6.2 2.50 42.66 4.2 2.05 5 4.0 2.00 34.30 2.6 1.62 By Linear Regression of Y on X Stope, mw =			[ΔH x (Pa/76	60) x (298/Ta)] ^{1/2}			$[\Delta W \times (Pa/760) \times (298/Ta)]^{1}$		Y-axi	
3 8.4 2.91 49.63 5.3 2.31 4 6.2 2.50 42.66 4.2 2.05 5 4.0 2.00 34.30 2.6 1.62 By Linear Regression of Y on X Slope, mw =	1	12.1		3.49		7.9	2.82			
4 6.2 2.50 42.66 4.2 2.05 5 4.0 2.00 34.30 2.6 1.62 By Linear Regression of Y on X Slope, mw =	2	10.6		3.26	55.73	6.8	· · · ·			
5 4.0 2.00 34.30 2.6 1.62 By Linear Regression of Y on X Silver, mw =	3	8.4		2.91	49.63	5.3		2.31		
By Linear Regression of Y on X Slope, $mw = 0.0465$ Intercept, $bw = 0.0311$ Correlation coefficient* = 0.9983 *If Correlation Coefficient < 0.990, check and recalibrate. Set Point Calculation From the TSP Field Calibration Curve, take Qstd = 43 CFM From the Regression Equation, the "Y" value according to $mw x Qstd + bw = [\Delta W x (Pa/760) x (298/Ta)]^{1/2}$ Therefore, Set Point; $W = (mw x Qstd + bw)^2 x (760 / Pa) x (Ta / 298) = 4.11$ Remarks: Conducted by: $\frac{ h k \wedge dh }{ h }$ Signature: Conducted by: $\frac{ h k \wedge dh }{ h }$ Signature: Date: $\frac{ a (LV)}{ h }$	4	6.2	2.50		42.66	4.2	L	2.05		
Slope , mw =	5	4.0		2.00	34.30	2.6		1.62		
Set Point Calculation From the TSP Field Calibration Curve, take Qstd = 43 CFM From the Regression Equation, the "Y" value according to mw x Qstd + bw = [$\Delta W x (Pa/760) x (298/Ta)$] ^{1/2} Therefore, Set Point; W = (mw x Qstd + bw) ² x (760 / Pa) x (Ta / 298) = A.11 Remarks: Conducted by: If the table M Signature: Date: Ion (1) (1) (1)	Slope , mw = Correlation	0.0465 coefficient* =			Intercept, bw	- 0.0311				
From the TSP Field Calibration Curve, take Qstd = 43 CFM From the Regression Equation, the "Y" value according to $\mathbf{mw \ x \ Qstd + bw} = [\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$ Therefore, Set Point; W = (mw x Qstd + bw) ² x (760 / Pa) x (Ta / 298) = 4.11 Remarks: Conducted by: $\underline{h \ k \ M}$ Signature: Date: $\underline{lo \ l(\ lv \ log l)}$	*If Correlation (Coefficient < 0.990,	check and recalibrat	8.						
From the TSP Field Calibration Curve, take Qstd = 43 CFM From the Regression Equation, the "Y" value according to $\mathbf{mw \ x \ Qstd + bw} = [\Delta W \ x \ (Pa/760) \ x \ (298/Ta)]^{1/2}$ Therefore, Set Point; W = (mw x Qstd + bw) ² x (760 / Pa) x (Ta / 298) = 4.11 Remarks: Conducted by: $\underline{h \ k \ M}$ Signature: Date: $\underline{lo \ l(\ lv \ log l)}$	n a state de la composición de la comp		Perioda a compo	Set Point C	Calculation		epa aec			
$mw x Qstd + bw = [\Delta W x (Pa/760) x (298/Ta)]^{1/2}$ Therefore, Set Point; W = (mw x Qstd + bw) ² x (760 / Pa) x (Ta / 298) =	From the TSP F	ield Calibration Cur	ve, take Qstd = 43 C			<u></u>				
Therefore, Set Point; $W = (mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) = 4.11$ Remarks: Conducted by: $\frac{ h l \wedge dh }{l h l \wedge dh }$ Signature: Date: $\frac{ o l V }{l h l \wedge dh }$	From the Regre	ssion Equation, the "	Y" value according	to						
Therefore, Set Point; $W = (mw \times Qstd + bw)^2 \times (760 / Pa) \times (Ta / 298) = 4.11$ Remarks: Conducted by: $\frac{ h l \wedge dh }{l h l \wedge dh }$ Signature: Date: $\frac{ o l V }{l h l \wedge dh }$	-	-	mw x	$\cos t d + bw = \Delta W$	x (Pa/760) x (298	B/Ta)] ^{1/2}				
Remarks: Conducted by: 1/2 / La d Signature:										
Conducted by: 1/2 Local Signature:	Theref	ore, Set Point; W = ($(mw \times Qstd + bw)^2$	x (760 / Pa) x (Ta	/ 298) =	4.11				
Conducted by: 1/2 Local Signature:										
Conducted by: 1/2 Local Signature:										
Conducted by: 1/2 Local Signature:	D									
Conducted by. <u>AVEX total</u> signature.	Kemarks:									
Conducted by. <u>AVEX total</u> signature.				() n						
	Conducted by:	la lea da	Signature:	L.	\sim		Date	lol 11/2V		
	•	ha Mail La.	•		hei	-	-	61.1-		



High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET

						File No.	WMA21009/24/(0011	
Station	DMS-3 - Village Ho	use along Old Border R	oad			Operator:	HL		
Date:	5-Jan-23				Next	Due Date:	4-Mar-23		
Equipment No.:	WA-12-24					Serial No.	10576		
			Ambient (Condition		·	a se de présente		
Temperat	ture, Ta (K)	291.6	Pressure, Pa			770.4			
			Drifice Transfer Sta	ndard Informat	ion				
Seri	al No.	2896	Slope, mc	0.0588	Intercept,	be	-0.01030		
	pration Date:	20-Jan-22	510p0, 110	$mc x Qstd + bc = [\Delta H x (Pa/760) x (298/Ta)]^{1/2}$					
	oration Date:	20-Jan-23			x (Pa/760) x (298				
	· · · · · · · · · · · · · · · · · · ·	· ·							
				TSP Sampler	en in de trais E				
Calibration Point	ΔH (orifice), in. of water	Orf [ΔH x (Pa/76	ice 50) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water	HVS [ΔW x (Pa/760) x (298/Ta)] ^{1/2} \mathbf{Y}		Y-axis	
1	12,1		3.54		7.5		2.79		
2	10.5	1	3.30		6.4		2.57		
3	8.6		2.98	56.31	5.6		2.41		
4	6.7		2.63	45.02	4.4		2.13		
5	4.2		2.09	35.68	2.7		1.67		
	ression of Y on X								
Slope, mw =		_		Intercept, bw	0.1190)			
	coefficient* =		9975						
*If Correlation C	Coefficient < 0.990,	check and recalibrate	2.						
· · · · ·			Set Point C	alculation			n en en lande		
From the TSP Fi	ield Calibration Cu	ve, take Qstd = 43 C							
From the Regres	sion Equation, the	'Y" value according	to						
				(D. (200) (200	APR >11/2				
		mw x	$\Delta \mathbf{W} = [\Delta \mathbf{W}]$	(Pa//60) x (298	/[a)]				
Therefo	ore, Set Point; W =	$(mw x Qstd + bw)^2$	x (760 / Pa) x (Ta /	298)=	3.94	,			
Remarks:									
ronano,									

Conducted by: <u>*LLL MIN HI*</u> Signature: Checked by: <u>W CA CL</u> Signature:

he ()

Date: $\frac{\frac{1}{2} \left(\frac{1}{2} \right)^{\frac{1}{2}}}{\frac{1}{2} \left(\frac{1}{2} \right)^{\frac{1}{2}}}$

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High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET

						File No.	WMA21009/07/	0010
Station	DMS-4A - Hong Kon	g Police Force, Lok M	a Chau Operation Base	at Horn Hill		Operator:		
Date:	10-Nov-22		_		Next	Due Date:	9-Jan-23	
Equipment No.:	WA-12-07					Serial No.	1801	-
			Ambient	Condition				<u></u>
Temperat	ure, Ta (K)	298.5	Pressure, Pa			765	.7	
			Drifice Transfer Sta	undard Informat	ion			1917 (A. 19
Seri	al No.	2896	Slope, mc	0.0588	Intercept,		-0.01030	
Last Calib	ration Date:	20-Jan-22			$bc = [\Delta H x (Pa/7)]$			
Next Calib	oration Date:	20-Jan-23		Qstd = $\{[\Delta H]$	x (Pa/760) x (298	8/Ta)] ^{1/2} -bc}	/ mc	
			Calibration of	TSP Sampler				
Calibration		Ort	lice			HY	/S	
Point	∆H (orifice), in. of water	[ΔH x (Pa/7)	50) x (298/Ta)] ^{1/2}	Qstd (CFM) X - axis	ΔW (HVS), in. of water	[∆W x (Pa	/760) x (298/Ta)] ^{1/2}	Y-axi
1	12.3	3.52		60.04	7.6	2.76		
2	10.2		3.20		6.2		2.50	
3	8.1	2.85		48.76	5.1		2.26	
4	6.8	2.62		44.69	4.6		2.15	
5	3.7		1.93	33.01	2.6		1.62	
Slope , mw =	ression of Y on X 	0.	9979	Intercept, bw :	0.2571			
*If Correlation (Coefficient < 0.990,	check and recalibrat	te.					
			Set Point (alculation				5
From the TSP F	ield Calibration Cur	ve, take Qstd = 43 (CFM					
From the Regres	sion Equation, the "	Y" value according	to					
		nw	$x \operatorname{Qstd} + bw = [\Delta W]$	x (Pa/760) x (298	$B/Ta) ^{1/2}$			
			(E	· · · · · · · · · · · · · · · · · · ·	<i>,</i> ,			
Therefo	ore, Set Point; W = ($mw x Qstd + bw)^2$	x (760 / Pa) x (Ta	/ 298) =	4.14			
Remarks:				<u></u>				
			/					
Conducted by:	40 ka che	Signature:	l	Mm		Date:	10/11/2V	
		-	<u>,</u>	hei .	-		10/11/00	
Checked by:	LEE MON HOL	Signature:	/	UE7	-	Date:	10/1/2	<u> と</u>

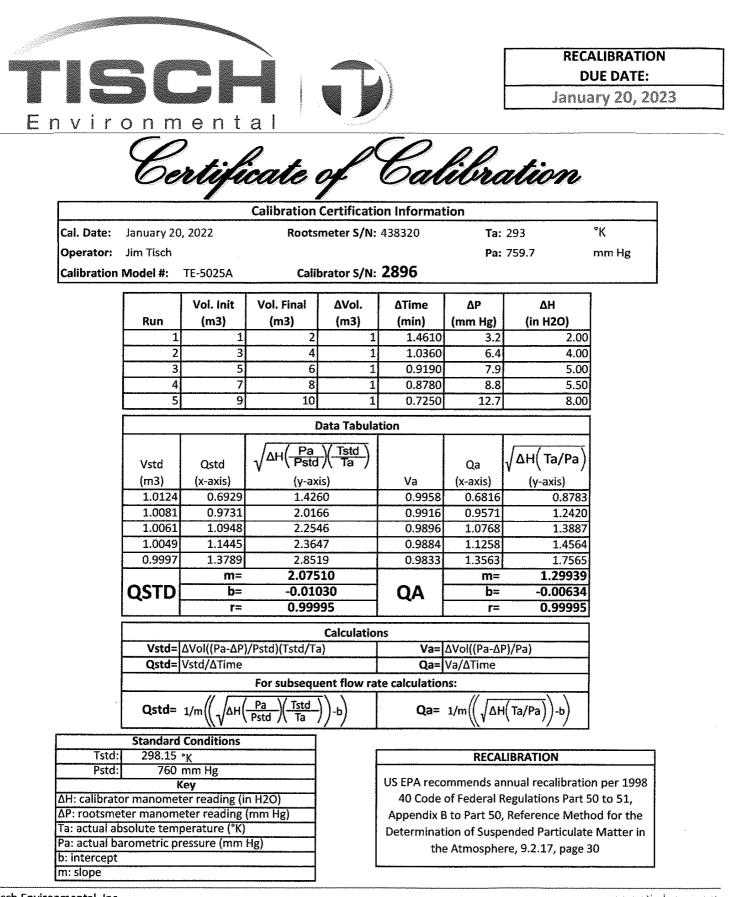


High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET

						File No.	WMA21009/07/	0011
Station	DMS-4A - Hong Kon	g Police Force, Lok N	la Chau Operation Bas	e at Horn Hill	_	Operator:	HL	
Date:	5-Jan-23		_		Next	Next Due Date: 4-Mar-23		
Equipment No.	.: <u>WA-12-07</u>		-			Serial No.	1801	
			Amhient	Condition	and the second second	· · · · · · · ·		. : • •
Temperature, Ta (K)		291.4	Ambient Condition Pressure, Pa (mmHg)		770			
·····								
· · · · ·		n na statistica (na st	Orifice Transfer St	andard Informat	ion			
Serial No.		2896	Slope, mc	0.0588		Intercept, bc -0.01030		
Last Calibration Date:		20-Jan-22			bc = $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$			
Next Cal	ibration Date:	20-Jan-23	Qstd = { $[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$ -bc} / mc					
		•	Collibration o	TSP Sampler		st. 11 11		
	Orfice			101 Sampier	HVS			
Calibration Point	ΔH (orifice), in. of water	$[\Delta H \times (Pa/760) \times (298/Ta)]^{1/2}$		Qstd (CFM) X - axis	ΔW (HVS), in. of water	1	760) x (298/Ta)] ^{1/2}	Y-axis
1	12.6	3.61		61.67	7.7		2.82	
2	10.2		3.25	55.51	6.6	2.62		
3	7.8	2.84		48.56	5.0		2.28	
4	6.8	2.65		45,35	4.4		2.14	
5	3.4	1.88		32.12	2.4		1.58	
By Linear Reg	gression of Y on X							
Slope, mw =			Intercept, bw :		0.1980			
	n coefficient* =		9991					
*If Correlation	Coefficient < 0.990,	check and recalibrat	te.					
			Set Point (Calculation			n de Beege	
From the TSP 1	Field Calibration Cur	ve, take Qstd = 43 C						
From the Regre	ession Equation, the "	Y" value according	to					
		-						
		mw	$x \text{ Qstd} + bw = [\Delta W]$	x (Pa/760) x (298	/Ta)] ^{1/2}			
There	fore, Set Point; W = (mw x Qstd + bw $)^2$	x (760 / Pa) x (Ta	/ 298) =	4.03			
					1. i. iiiiii			
Rcmarks:	,							
	·	····						
			Λ					

Conducted by: <u>124 Mnv 11</u>,2Signature: Checked by: <u>11v 126 da</u> Signature:

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Tisch Environmental, Inc. 145 South Miami Avenue

Village of Cleves, OH 45002

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

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TEST REPORT

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

Test Report No.:	37386
Date of Issue:	2022-11-14
Date Received:	2022-11-11
Date Tested:	2022-11-11
Date Completed:	2022-11-14
Next Due Date:	2023-01-13
Page:	1 of 1

ATTN:

Ms. Meiling Tang

Item for Calibration:	
Description	: Dust Monitor
Manufacturer	: Met One Instruments
Model No.	: AEROCET-831
Serial No.	: X23807
Flow rate	: 0.1 cfm
Zero Count Test	: 0 count per 1 minute
Equipment No.	: WA-01-01
Test Conditions:	
Room Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Certificate of Calibration

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Tisch Environmental Inc.

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

Results:

Correlation Factor (CF)	1.093		

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

PATRICK TSE General Manager

Dust Meter	Dust Meter	High Volume Sampler		
Equipment No.:	WA-01-01	WA-12-09		
Model No. :	AEROCET-831	TE-5170		
Serial No.	X23807	2203		
Calibration Date:	11-Nov-22	11-Nov-22		
Location:	Wellab Office (Calibration Room)			

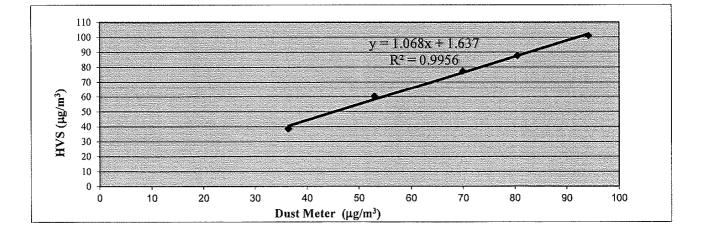
	Calib	ration of 1 hr TSP			
	Dust Meter		HVS		
Calibration Point	Mass Concentration (µg/	(m ³) M	Mass concentration (µg/m ³)		
	X-axis		Y-axis		
1	36		39		
2	53		60		
3	70		77		
4	81		88		
5	94		101		
Average	66.8		73.0		
By Linear Regression of Slope , mw = Correlation coefficie	1.0680	Intercept, bw =	1.6370		

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particaulate Concentration by High Volume Sampler (µg/m ³)	73.0
Particaulate Concentration by Dust Meter ($\mu g/m^3$)	66.8
Measureing time, (min)	60
Measureing time, (mm)	00

Set Correlation Factor, SCF SCF = [K=High Volume Sampler / Dust Meter, (µg/m³)]

1.093



QC Reviewer:	LEF	MAN	HEZ	Signature:	hei	Date:	14/11/ 2020
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TEST REPORT APPLICANT: Wellab Limited (EM&A Department) Room 1808, Technology Park, 18 On Lai Street, Shatin, NT, Hong Kong

Test Report No.:	37675A	
Date of Issue:	2023-01-09	
Date Received:	2023-01-06	
Date Tested:	2023-01-06	
Date Completed:	2023-01-09	
Next Due Date:	2023-03-08	
Page:	1 of 1	

ATTN:

Ms. Meiling Tang

: Dust Monitor
: Met One Instruments
: AEROCET-831
: X23808
: 0.1 cfm
: 0 count per 1 minute
: WA-01-02
: 17-22 degree Celsius
: 40-70%

Certificate of Calibration

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Tisch Environmental Inc.

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

Results:

Correlation Factor (CF)	1.114				

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PATRICK TSE General Manager

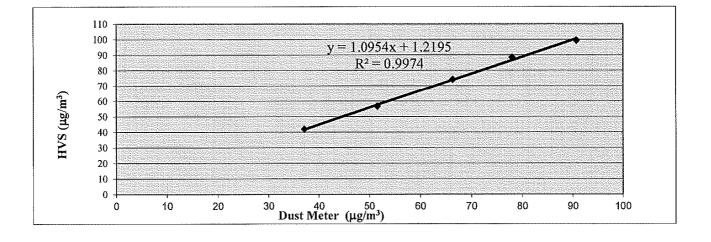
Dust Meter	Dust Meter	High Volume Sampler		
Equipment No.:	WA-01-02	WA-12-09		
Model No. :	AEROCET-831	TE-5170		
Serial No.	X23808	2203		
Calibration Date:	6-Jan-23	6-Jan-23		
Location:	Wellab Office (Calibration Room)			

	Calibra	tion of 1 hr TSP				
	Dust Meter		HVS			
Calibration Point	Mass Concentration (µg/m)	Mass concentration (µg/m ³)			
	X-axis		Y-axis			
1	37		42			
2	52		57			
3	66		74			
4	78		88			
5	91		99			
Average	64.8		72.2			
By Linear Regression Slope , mw =	of Y on X 1.0954	Intercept, bw =	1.2195			
Correlation coefficie	ent* = 0.9987					

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particaulate Concentration by High Volume Sampler (µg/m ³)	72.2
Particaulate Concentration by Dust Meter (µg/m ³)	64.8
Measureing time, (min)	60
Set Correlation Factor, SCF	

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



QC Reviewer:	LEE	Min	Hţz	Signature:	hii	Date:	6/ 1/ 2023

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TEST REPORT

Certificate of Calibration

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

Test Report No.:	37386B
Date of Issue:	2022-11-14
Date Received:	2022-11-11
Date Tested:	2022-11-11
Date Completed:	2022-11-14
Next Due Date:	2023-01-13
Page:	1 of 1

ATTN:

Ms. Meiling Tang

Item for Calibration:	
Description	: Dust Monitor
Manufacturer	: Met One Instruments
Model No.	: AEROCET-831
Serial No.	: X23809
Flow rate	: 0.1 cfm
Zero Count Test	: 0 count per 1 minute
Equipment No.	: WA-01-03
Test Conditions:	
Room Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Tisch Environmental Inc.

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

Correlation Factor (CF)	1.150
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PATRICK TSE General Manager

Dust Meter	Dust Meter	High Volume Sampler	
Equipment No.:	WA-01-03	WA-12-09	
Model No. :	AEROCET-831	TE-5170	
Serial No.	X23809	2203	
Calibration Date:	11-Nov-22	11-Nov-22	
Location:	Wellab Office (Calibration Room)		

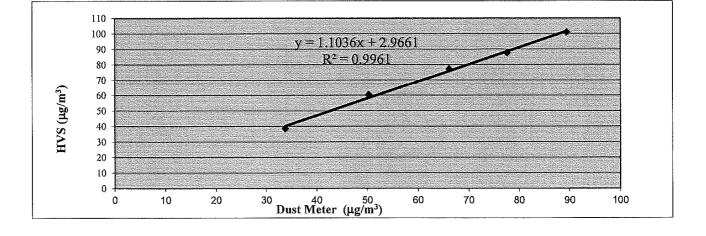
	Calibra	ition of 1 hr TSP		
	Dust Meter		HVS	
Calibration Point	Mass Concentration (µg/m	3) N	fass concentration (μg/m ³)	
	X-axis		Y-axis	
1	34		39	
2	50		60	
3	66		77	
4	78		88	
5	89		101	
Average	63.4		73.0	
By Linear Regression (of Y on X			
Slope, mw =	1.1036	Intercept, bw =	2.9661	
Correlation coefficie	nt* = 0.9980	_		

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Fa	ctor
Particaulate Concentration by High Volume Sampler (µg/m ³)	73.0
Particaulate Concentration by Dust Meter (µg/m ³)	63.4
Measureing time, (min)	60

Set Correlation Factor, SCF

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



QC Reviewer:	Lit	MAN	462	Signature:	hei	Date:	14/11/2020
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TEST REPORT

Certificate of Calibration

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

-	
Test Report No.:	37675B
Date of Issue:	2023-01-09
Date Received:	2023-01-06
Date Tested:	2023-01-06
Date Completed:	2023-01-09
Next Due Date:	2023-03-08
Page:	1 of 1

ATTN:

Ms. Meiling Tang

Item for Calibration:	
Description	: Dust Monitor
Manufacturer	: Met One Instruments
Model No.	: AEROCET-831
Serial No.	: X23809
Flow rate	: 0.1 cfm
Zero Count Test	: 0 count per 1 minute
Equipment No.	: WA-01-03
Test Conditions:	
Room Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Tisch Environmental Inc.

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

Results:

Correlation Factor (CF)	1.101
******	*****

PA[|]TRICK TSE General Manager

Dust Meter	Dust Meter	High Volume Sampler	
Equipment No.:	WA-01-03	WA-12-09	
Model No. :	AEROCET-831	TE-5170	
Serial No.	X23809	2203	
Calibration Date:	6-Jan-23	6-Jan-23	
Location:	Wellab Office (Calibration Room)		

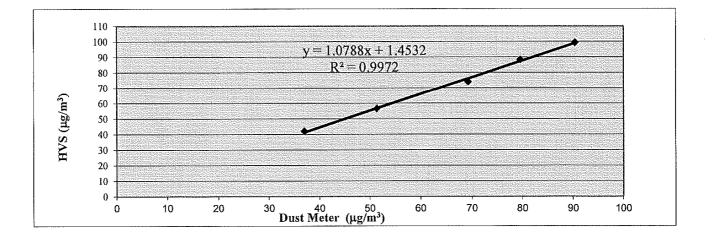
	Calibratic	n of 1 hr TSP
	Dust Meter	HVS
Calibration Point	Mass Concentration (µg/m ³)	Mass concentration (μg/m ³)
	X-axis	Y-axis
1	37	42
2	51	57
3	69	74
4	80	88
5	90	99
Average	65.5	72.2
By Linear Regressi Slope , mw =	ion of Y on X 1.0788	Intercept, bw = 1.4532
Correlation coef	ficient* = 0.9986	

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Concentration by High Volume Sampler (µg/m ³) 72.2	
Concentration by Dust Meter ($\mu g/m^3$) 65.5	
time, (min) 60	
time, (min) 60	•

Set Correlation Factor, SCF

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



QC Reviewer:	161	MAN	HEV Signature:	kei	Date:	6 (1 (2023
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TEST REPORT APPLICANT: Wellab Limited (EM&A Department) Room 1808, Technology Park, 18 On Lai Street, Shatin, NT, Hong Kong

-	
Test Report No.:	37386C
Date of Issue:	2022-11-14
Date Received:	2022-11-11
Date Tested:	2022-11-11
Date Completed:	2022-11-14
Next Due Date:	2023-01-13
Page:	1 of 1

ATTN:

Ms. Meiling Tang

Item for Calibration:	
Description	: Dust Monitor
Manufacturer	: Met One Instruments
Model No.	: AEROCET-831
Serial No.	: X23810
Flow rate	: 0.1 cfm
Zero Count Test	: 0 count per 1 minute
Equipment No.	: WA-01-04
Test Conditions:	
Room Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Tisch Environmental Inc.

Certificate of Calibration

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

Results:	

Correlation Factor (CF)	1.177

PATRICK TSE ` General Manager

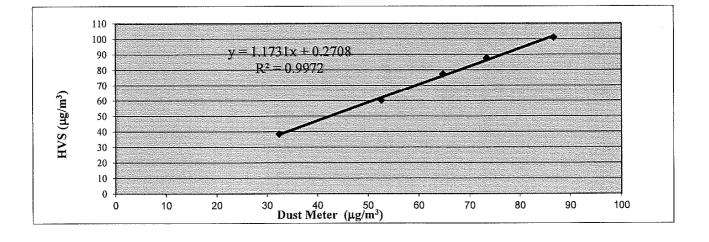
Dust Meter	Dust Meter	High Volume Sampler		
Equipment No.:	WA-01-04	WA-12-09		
Model No. :	AEROCET-831	TE-5170		
Serial No.	X23810	2203		
Calibration Date:	11-Nov-22	11-Nov-22		
Location:	Wellab Office (Calibration Room)			

	Calibrati	on of 1 hr TSP
	Dust Meter	HVS
Calibration Point	Mass Concentration (µg/m ³)	Mass concentration (µg/m ³)
	X-axis	Y-axis
1	32	39
2	53	60
3	65	77
4	73	88
5	87	101
Average	62.0	73.0
By Linear Regression (of Y on X	
Slope , mw =	1.1731	Intercept, bw = 0.2708
Correlation coefficie	nt* = 0.9986	

*If Correlation Coefficient < 0.90, check and recalibrate.

Particaulate Concentration by High Volume Sampler (µg/m ³)	73.0
Particaulate Concentration by Dust Meter (µg/m ³)	62.0
Measureing time, (min)	60

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



QC Reviewer:	LEE	MBN	4722	_Signature:	he	Date:	14/11/2020
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TEST REPORT

Certificate of Calibration

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

Test Report No.:	37675C
Date of Issue:	2023-01-09
Date Received:	2023-01-06
Date Tested:	2023-01-06
Date Completed:	2023-01-09
Next Due Date:	2023-03-08
Page:	1 of 1

ATTN:

Ms. Meiling Tang

em for Calibration:	
Description	: Dust Monitor
Manufacturer	: Met One Instruments
Model No.	: AEROCET-831
Serial No.	: X23810
Flow rate	: 0.1 cfm
Zero Count Test	: 0 count per 1 minute
Equipment No.	: WA-01-04
est Conditions:	
Room Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Tisch Environmental Inc.

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

Results:

Correlation Factor (CF)	1.139
*****	*****

PATRICK TSE General Manager

Dust Meter	Dust Meter	High Volume Sampler	
Equipment No.:	WA-01-04	WA-12-09	
Model No. :	AEROCET-831	TE-5170	
Serial No.	X23810	2203	
Calibration Date:	6-Jan-23	6-Jan-23	
Location:	Wellab Office (Calibration Room)		

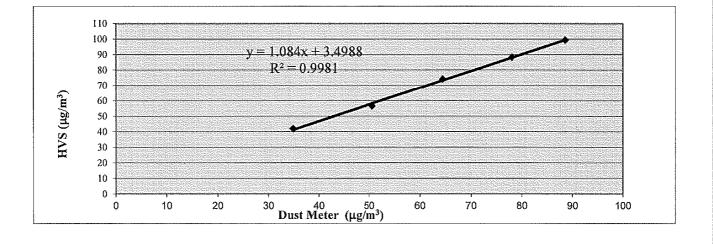
	Calibratio	of 1 hr TSP	
	Dust Meter	HVS	
Calibration Point	Mass Concentration (µg/m ³)	Mass concentration (µg/m ³)	
	X-axis	Y-axis	
1	35	42	
2	51	57	
3	65	74	
4	78	88	
5	89	99	
Average	63.3	72.2	
By Linear Regressio	n of Y on X 1.0840	Intercept, bw = 3.4988	
Slope , mw = Correlation coeffic	· · · · · · · · · · · · · · · · · · ·	Intercept, bw = <u>3.4988</u>	

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Fa	stor
Particaulate Concentration by High Volume Sampler (µg/m ³)	72.2
Particaulate Concentration by Dust Meter (µg/m ³)	63.3
Measureing time, (min)	60

Set Correlation Factor, SCF

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



QC Reviewer:	LEE MAN	422	Signature:	hei	Date:	61 1/2023

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TEST REPORT

Certificate of Calibration

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

Test Report No.:	37674
Date of Issue:	2023-01-03
Date Received:	2022-12-30
Date Tested:	2022-12-30
Date Completed:	2023-01-03
Next Due Date:	2023-03-02
Page:	1 of 1

ATTN:

Ms. Meiling Tang

Item for Calibration:	
Description	: Dust Monitor
Manufacturer	: Met One Instruments
Model No.	: AEROCET-831
Serial No.	: X24476
Flow rate	: 0.1 cfm
Zero Count Test	: 0 count per 1 minute
Equipment No.	: WA-01-05
Test Conditions:	
Room Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Tisch Environmental Inc.

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

Results:

Correlation Factor (CF)	1 143	
	1.1 15	
******	****************	

PATRICK TSE General Manager

Dust Meter	Dust Meter	High Volume Sampler	
Equipment No.:	WA-01-05	WA-12-09	
Model No. :	AEROCET-831	TE-5170	
Serial No.	X24476	2203	
Calibration Date:	30-Dec-22	30-Dec-22	
Location:	Wellab Office (Calibration Room)		

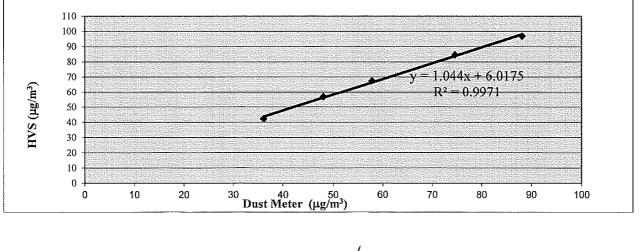
	Calibra	tion of 1 hr TSP
**************************************	Dust Meter	HVS
Calibration Point	Mass Concentration (µg/m	Mass concentration (μg/m ³)
	X-axis	Y-axis
1	36	42
2	48	57
3	58	68
4	75	85
5	88	97
Average	61.0	69.7
By Linear Regression	of Y on X	
Slope , mw =	1.0440	Intercept, bw = 6.0175
Correlation coeffici	ent* = 0.9986	

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor Particaulate Concentration by High Volume Sampler (μg/m ³)	69.7	
Particaulate Concentration by Dust Meter (µg/m ³)	61.0	
Measureing time, (min)	60	

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

1.143



QC Reviewer: 124 MIN MIN Signature: his Date: 30/10/2020

TEST REPORT

Certificate of Calibration

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

Test Report No.:	37674B
Date of Issue:	2023-01-03
Date Received:	2022-12-30
Date Tested:	2022-12-30
Date Completed:	2023-01-03
Next Due Date:	2023-03-02
Page:	1 of 1

ATTN: Ms. Meiling Tang

Item for Calibration:	
Description	: Dust Monitor
Manufacturer	: Met One Instruments
Model No.	: AEROCET-831
Serial No.	: X24479
Flow rate	: 0.1 cfm
Zero Count Test	: 0 count per 1 minute
Equipment No.	: WA-01-08
Test Conditions:	
Room Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Tisch Environmental Inc.

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

Kesuits:	
Correlation Factor (CF)	1.111
*****	****

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

PATRICK TSE General Manager

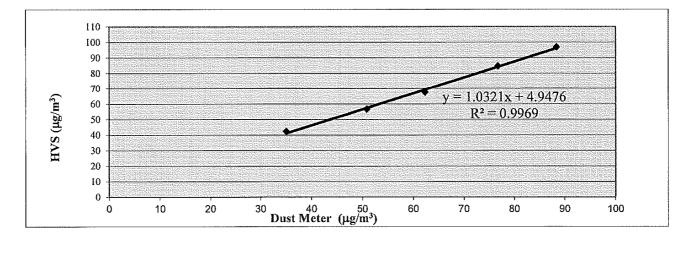
Dust Meter	Dust Meter	High Volume Sampler		
Equipment No.:	WA-01-08	WA-12-09		
Model No. :	AEROCET-831	TE-5170		
Serial No.	X24479	2203		
Calibration Date:	30-Dec-22	30-Dec-22		
Location:	Wellab Office (Calibration Room)			

Calibration of 1 hr TSP					
	Dust Meter		HVS		
Calibration Point	Mass Concentration (µg	$/m^3$)	Mass concentration (µg/m ³)		
	X-axis		Y-axis		
1	35		42		
2	51		57		
3	62		68		
4	77		85		
5	88		97		
Average	62.7		69.7		
By Linear Regression of Slope , mw =	of Y on X 1.0321	Intercept, bw =	4.9476		
Correlation coefficie	nt* = 0.9985	=			

*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Particaulate Concentration by High Volume Sampler (µg/m ³)	69.7
Particaulate Concentration by Dust Meter ($\mu g/m^3$)	62.7
Measureing time, (min)	60
Set Correlation Factor, SCF	

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



QC Reviewer:	Lak	inen	422	_Signature:	hi	Date:	30/12 (bW
QC Reviewer.	Lake	10161	10-		100	Date.	

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

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Test Report No.:	37674D
Date of Issue:	2023-01-03
Date Received:	2022-12-30
Date Tested:	2022-12-30
Date Completed:	2023-01-03
Next Due Date:	2023-03-02
Page:	1 of 1

ATTN: Ms. M

Ms. Meiling Tang

Item for Calibration:	
Description	: Dust Monitor
Manufacturer	: Met One Instruments
Model No.	: AEROCET-831
Serial No.	: X24478
Flow rate	: 0.1 cfm
Zero Count Test	: 0 count per 1 minute
Equipment No.	: WA-01-10
Test Conditions:	
Room Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

Test Specifications & Methodology:

1. Instruction and Operation Manual High Volume Sampler, Tisch Environmental Inc.

Certificate of Calibration

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

Results:	
Correlation Factor (CF)	1.102

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PATRICK TSE General Manager

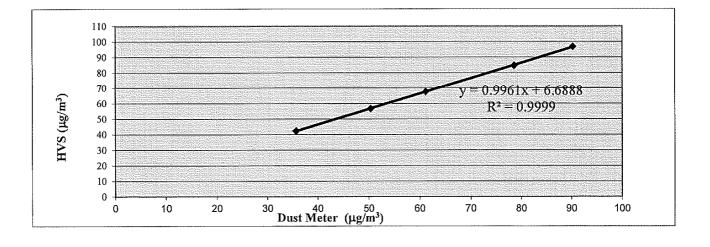
Dust Meter	Dust Meter	High Volume Sampler		
Equipment No.:	WA-01-10	WA-12-09		
Model No. :	AEROCET-831	TE-5170		
Serial No.	X24478	2203		
Calibration Date:	30-Dec-22	30-Dec-22		
Location:	Wellah Office (Calibration Room)			

Calibration of 1 hr TSP					
	Dust Meter		HVS		
Calibration Point	Mass Concentration (µg	y/m ³)	Mass concentration (µg/m ³)		
	X-axis		Y-axis		
1	36		42		
2	50		57		
3	61		68		
4	79		85		
5	90		97		
Average	63.2		69.7		
By Linear Regression	of Y on X 0.9961	Intercent by -	6.6888		
Slope , mw = Correlation coefficie		Intercept, bw =	0.0000		

*If Correlation Coefficient < 0.90, check and recalibrate.

Particaulate Concentration by High Volume Sampler (µg/m ³)	69.7	
Particaulate Concentration by Dust Meter (µg/m ³)	63.2	
Measureing time, (min)	60	

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



QC Reviewer:	lbr	MAN	HEV	Signature:	his	Date:	30/12/2020
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TEST REPORT

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

Test Report No.:	36405A
Date of Issue:	2022-03-07
Date Received:	2022-03-04
Date Tested:	2022-03-04
Date Completed:	2022-03-07
Next Due Date:	2023-03-06
Page:	1 of 1

ATTN: Ms. Meiling Tang

Certificate of Calibration

Item for calibration:

Description Manufacturer Model No. Serial No. Equipment No. : Sound Level Meter : BSWA : BSWA 308 : 580004 : WN-01-02

Test conditions:

Room Temperature Relative Humidity

: 17-22 degree Celsius : 40-70%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

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

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PATRICK TSE General Manager

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18 On Lai Street,

Shatin, NT, Hong Kong

L	
Test Report No.:	36405E
Date of Issue:	2022-03-07
Date Received:	2022-03-04
Date Tested:	2022-03-04
Date Completed:	2022-03-07
Next Due Date:	2023-03-06
Page:	1 of 1

ATTN: Ms. Meiling Tang

Certificate of Calibration

Item for calibration:

MFII AR R

Description Manufacturer Model No. Serial No. Equipment No. : Sound Level Meter : BSWA : BSWA 308 : 580008 : WN-01-06

Test conditions:

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

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

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

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

PATRICK TSE

General Manager

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

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

Test Report No.:	36481A
Date of Issue:	2022-03-14
Date Received:	2022-03-11
Date Tested:	2022-03-11
Date Completed:	2022-03-14
Next Due Date:	2023-03-13
Page:	1 of 1

ATTN: Ms. Meiling Tang

Certificate of Calibration

TEST REPORT

Item for calibration:

Description Manufacturer Model No. Serial No. Equipment No. : Sound Level Meter : BSWA : BSWA 308 : 580013 : WN-01-09

Test conditions:

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

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

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

PATRICK TSE General Manager

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

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

Test Report No.:	36481B
Date of Issue:	2022-03-14
Date Received:	2022-03-11
Date Tested:	2022-03-11
Date Completed:	2022-03-14
Next Due Date:	2023-03-13
Page:	1 of 1

ATTN: Ms. Meiling Tang

Certificate of Calibration

TEST REPORT

Item for calibration:

Description Manufacturer Model No. Serial No. Equipment No. : Sound Level Meter : BSWA : BSWA 308 : 580017 : WN-01-10

Test conditions:

Room Temperature Relative Humidity

: 17-22 degree Celsius :40-70%

Test Specifications:

Performance checking at 94 and 114 dB

Methodology:

In-house method, according to manufacturer instruction manual

Results:

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

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

PATRICK TSE General Manager

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WELLAB LIMITED Room 1701, Technology Park, 18 On Lai Street, Shatin, N.T., Hong Kong. Tel: 2898 7388 Fax: 2898 7076 Website: www.wellab.com.hk

TEST REPORTAPPLICANT:Wellab Limited
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Test Report No.:	37018A
Date of Issue:	2022-08-22
Date Received:	2022-08-19
Date Tested:	2022-08-19
Date Completed:	2022-08-22
Next Due Date:	2023-08-21
Page:	1 of 1

ATTN: Ms. Meiling Tang

Certificate of Calibration

Item for calibration:

Description Manufacturer Model No. Serial No. Equipment No. : Acoustical Calibrator : SVANTEK : SV30A : 24791 : N-09-04

Test conditions:

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

Methodology:

The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

Results:

Sound Pressure Level (1kHz)	Measured SPL	Tolerance
At 94 dB SPL	94.0	94.0 ± 0.1 dB
At 114 dB SPL	114.0	$114.0 \pm 0.1 \text{ dB}$

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

PATRICK TSE General Manager

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

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

Test Report No.:	37163A
Date of Issue:	2022-10-02
Date Received:	2022-09-30
Date Tested:	2022-10-02
Date Completed:	2022-10-02
Next Due Date:	2023-10-01
Page:	1 of 1

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Ms. Meiling Tang ATTN:

Certificate of Calibration

Item for calibration:

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

Test conditions:

Room Temperature Relative Humidity

: 17-22 degree Celsius : 40-70%

Methodology:

The Sound Level Calibrator has been calibrated in accordance with the documented procedures and using standard(s) and instrument(s) which are recommended by the manufacturer, or equivalent.

Results:

Sound Pressure Level (1kHz)	Measured SPL	Tolerance
At 94 dB SPL	94.0	$94.0 \pm 0.1 \text{ dB}$
At 114 dB SPL	114.0	$114.0 \pm 0.1 \text{ dB}$

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

P'ATRICK TSE General Manager

TEST REPORT Test Report No.: 37674E APPLICANT: Wellab Limited Date of Issue: (EM&A Department) 2022-12-28 Room 1808, Technology Park, Date Received: 2022-12-23 Date Tested: 2022-12-23 18 On Lai Street, Shatin, NT, Hong Kong Date Completed: 2022-12-28 Next Due Date: 2023-06-27 ATTN: 1 of 2 Ms. Meiling Tang Page: **Certificate of Calibration** Item for calibration: Description : Weather Stations, Vantage Pro2

Manufacturer Model No. Serial No. : Weather Stations, Vantage Pro2: Davis Instruments: 6152CUK: AK130520007

Test conditions:

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

Test Specifications:

1. Performance check of anemometer

2. Performance check of wind direction sensor

Methodology:

In-house method with reference anemometer

General Manager

TEST REPORT

Test Report No.:	37674E
Date of Issue:	2022-12-28
Date Received:	2022-12-23
Date Tested:	2022-12-23
Date Completed:	2022-12-28
Next Due Date:	2023-06-27
Page:	2 of 2

Results:

WELLAB Et

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1. Performance check of anemometer

Air Velocity, m/s		Difference D (m/s)
Instrument Reading (V1) Reference Value (V1)		$\mathbf{D} = \mathbf{V}1 - \mathbf{V}2$
2.00	2.00	0.00

2. Performance check of wind direction sensor

Wind Direction (°)		Difference D (°)
Instrument Reading (W1)	Instrument Reading (W1) Reference Value (W2)	
0	0	0
45	45	0
90.1	90	0.1
135	135	0
180	180	0
225.3	225	0.3
270.1	270	0.1
315	315	0
360	360	0



TEST REPORT

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

Test Report No.:	37645B
Date of Issue:	2022-12-25
Date Received:	2022-12-24
Date Tested:	2022-12-24 to
	2022-12-25
Date Completed:	2022-12-25
Page:	1 of 2

ATTN: Miss Mei Ling Tang

Certificate of Calibration

Item for calibration:

YSI EXO1 Multiparameter Sondes	Equipment No.:	SW-08-108
Manufacturer:	YSI Incorporated	l, a Xylem brand
Description:	Model No.	Serial No.
- EXO1 Sonde, 100 meter Depth, 4 Sensor ports	599502-24	17B100681
- EXO Optical DO Sensor, Ti	599100-01	16J100992
- EXO conductivity/Temperature Sensor, Ti	599870	17H103451
- EXO Turbidity Sensor, Ti	599101-01	20J103612
- EXO pH Sensor Assembly, Guarded, Ti	599701	17B103616

Test conditions:

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

Test Specifications:

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

Methodology:

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

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

(

PATRICK TSE General Manager



TEST REPORT

Test Report No.:	37645B
Date of Issue:	2022-12-25
Date Received:	2022-12-24
Date Tested:	2022-12-24 to
	2022-12-25
Date Completed:	2022-12-25
Page:	2 of 2

Certificate of Calibration

Results:

Conductivity performance checking

Instrument Readings (µS/cm)	Accetance Criteria	Comment
12300	12246-13534	Pass
	v 3 1 <i>z</i> 1	

Temperature performance checking

Reference thermometer- E431 Readings (°C)	Instrument Readings (°C)	Correction (°C)	Comment
20.0	20.001	-0.001	N/A

pH performance checking

	Instrument Readings (pH unit)	Accetance Criteria	Comment
pH QC buffer 4.00	3.99	4.00 ± 0.10	Pass
pH QC buffer 6.86	6.91	6.86 ± 0.10	Pass
pH QC buffer 9.18	9.24	9.18 ± 0.10	Pass

D.O. performance checking

	Instrument Readings (mg/L)	Accetance Criteria	Comment
Zero DO soultion	0.05	<0.1mg/L	Pass

Winkler Titration value	Instrument Readings (mg/L)	Accetance Criteria	Comment
(mg/L) 8.24	8.12	Difference between	Pass
0.24	0.12	Titration value and	1 455
		instrument reading	
		<0.2mg/L	

Turbidity performance checking

Turbidity stock solution	Instrument Readings (NTU)	Accetance Criteria	Comment
10 NTU	9.55	9.0-11.0	Pass
50 NTU	43.51	45.0-55.0	Pass
100 NTU	95.6	90.0-110.0	Pass

Depth performance checking

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



TEST REPORT

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

Test Report No.:	37645C
Date of Issue:	2022-12-25
Date Received:	2022-12-24
Date Tested:	2022-12-24 to
	2022-12-25
Date Completed:	2022-12-25
Page:	1 of 2

ATTN: Miss Mei Ling Tang

Certificate of Calibration

Item for calibration:

YSI EXO1 Multiparameter Sondes	Equipment No.:	SW-08-121
Manufacturer:	YSI Incorporated	l, a Xylem brand
Description:	Model No.	Serial No.
- EXO1 Sonde, 100 meter Depth, 4 Sensor ports	599502-24	17B101447
- EXO Optical DO Sensor, Ti	599100-01	16J101001
- EXO conductivity/Temperature Sensor, Ti	599870	17B100798
- EXO Turbidity Sensor, Ti	599101-01	17B102266
- EXO pH Sensor Assembly, Guarded, Ti	599701	17B100250

Test conditions:

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

Test Specifications:

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

Methodology:

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

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

(

PATRICK TSE General Manager



TEST REPORT

Test Report No.:	37645C
Date of Issue:	2022-12-25
Date Received:	2022-12-24
Date Tested:	2022-12-24 to
	2022-12-25
Date Completed:	2022-12-25
Page:	2 of 2

Certificate of Calibration

Results:

Conductivity performance checking

	Instrument Readings (µS/cm)	Accetance Criteria	Comment
KCl stock solution	12700	12246-13534	Pass
(12890 µS/cm)			

Temperature performance checking

Reference thermometer- E431 Readings (°C)	Instrument Readings (°C)	Correction (°C)	Comment
20.0	20.001	-0.001	N/A

pH performance checking

	Instrument Readings (pH unit)	Accetance Criteria	Comment
pH QC buffer 4.00	4.02	4.00 ± 0.10	Pass
pH QC buffer 6.86	6.87	6.86 ± 0.10	Pass
pH QC buffer 9.18	9.20	9.18 ± 0.10	Pass

D.O. performance checking

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

Winkler Titration value (mg/L)	Instrument Readings (mg/L)	Accetance Criteria	Comment
8.24	8.07	Difference between Titration value and instrument reading <0.2mg/L	Pass

Turbidity performance checking

Turbidity stock solution	Instrument Readings (NTU)	Accetance Criteria	Comment
10 NTU	10.63	9.0-11.0	Pass
50 NTU	51.44	45.0-55.0	Pass
100 NTU	103.52	90.0-110.0	Pass

Depth performance checking

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

APPENDIX D ENVIRONMENTAL MONITORING SCHEDULES

Service Contract No. WD/04/2020 Development of Lok Ma Chau Loop: Main Works Package 1 – Environmental Team Impact Monitoring Schedule (January 2023)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1-Jan	2-Jan	3-Jan	4-Jan	5-Jan	6-Jan	7-Jan
				Aquatic Fauna Survey (Water		
		11 TOD X 2		Quality Monitoring only)		
		1hr TSP X 3 Noise	24hr TSP	1hr TSP X 3		
		Water Quality Monitoring	24nr TSP	Water Quality Monitoring		Water Quality Monitoring
		water Quanty Monitoring		water Quanty Montoring		water Quanty Monitoring
8-Jan	9-Jan	10-Jan	11-Jan	12-Jan	13-Jan	14-Jan
					Aquatic Fauna Survey (Water	
			11 TOD X 2		Quality Monitoring only)	
		24hr TSP	1hr TSP X 3 Noise			
	Water Quality Monitoring	24fif 15P	Water Quality Monitoring		Water Quality Monitoring	
	water Quanty Monitoring		water Quality Monitoring		water Quanty Monitoring	
15-Jan	16-Jan	17-Jan	18-Jan	19-Jan	20-Jan	21-Jan
			Aquatic Fauna Survey			
		1hr TSP X 3			1hr TSP X 3	
	24hr TSP	Noise			24hr TSP	
	Water Quality Monitoring	1,0100	Water Quality Monitoring		Water Quality Monitoring	
					Avifauna flight line survey	
22-Jan	23-Jan	24-Jan	25-Jan	26-Jan	27-Jan	28-Jan
				Aquatic Fauna Survey (Water		
				Quality Monitoring only)		
	Site C	Closed		1hr TSP X 3		
				Noise		
				24hr TSP		
	30-Jan	31-Jan		Water Quality Monitoring		Water Quality Monitoring
29-341	50-Jali	51-Jah				
	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 Tentative Impact Monitoring Schedule (February 2023)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1-Feb	2-Feb	3-Feb	4-Fe
			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-Fe
			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-Fe
			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-Fe
	Aquatic Fauna Survey			1hr TSP X 3		
				Noise		
			24hr TSP			
	Water Quality Monitoring		Water Quality Monitoring		Water Quality Monitoring	
	Water Quanty Montoring		Water Quanty Montoring		Avifauna flight line survey	
26-Feb	27-Feb	28-Feb				
	Aquatic Fauna Survey (Water					
	Quality Monitoring only)					
		24hr TSP				
	Water Quality Monitoring					

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

Air Quality Monitoring Station

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

Noise Monitoring Station

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

NMIS-2 - Village house along existing Ha wan

NMS-3 - Village house along Old Border Road

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

Water Quality Monitoring Station

CS1 - Control Station at Old Shenzhen River Meander IS1 - Impact Station at Old Shenzhen River Meander IS2 - Impact Station at Old Shenzhen River Meander IS4 - Impact Station for at Ping Hang Stream CS5 - Control Station at channel at south of Lung Hau Road IS6 - Impact Station next to Lung Hau Road BS1 - Impact Station at Old Shenzhen River Meander (Terminated starting from 28 June 2021- approved by EPD via email dated 22 June 2021)

APPENDIX E 1-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATION

Date	Time	Weather	Particulate Concentration (µg/m ³)
3-Jan-23	8:00	Cloudy	163.6
3-Jan-23	9:00	Cloudy	158.0
3-Jan-23	10:00	Cloudy	162.6
5-Jan-23	9:00	Sunny	130.0
5-Jan-23	10:00	Sunny	142.4
5-Jan-23	11:00	Sunny	119.7
11-Jan-23	9:00	Cloudy	31.5
11-Jan-23	10:00	Cloudy	37.1
11-Jan-23	11:00	Cloudy	39.7
17-Jan-23	9:00	Cloudy	41.4
17-Jan-23	10:00	Cloudy	34.5
17-Jan-23	11:00	Cloudy	41.8
20-Jan-23	8:30	Cloudy	60.7
20-Jan-23	9:30	Cloudy	41.6
20-Jan-23	10:30	Cloudy	54.8
26-Jan-23	9:00	Cloudy	51.7
26-Jan-23	10:00	Cloudy	55.2
26-Jan-23	11:00	Cloudy	48.4
		Minimum	31.5
		Maximum	163.6
		Average	78.6

Appendix E - 1-hour TSP Monitoring Results

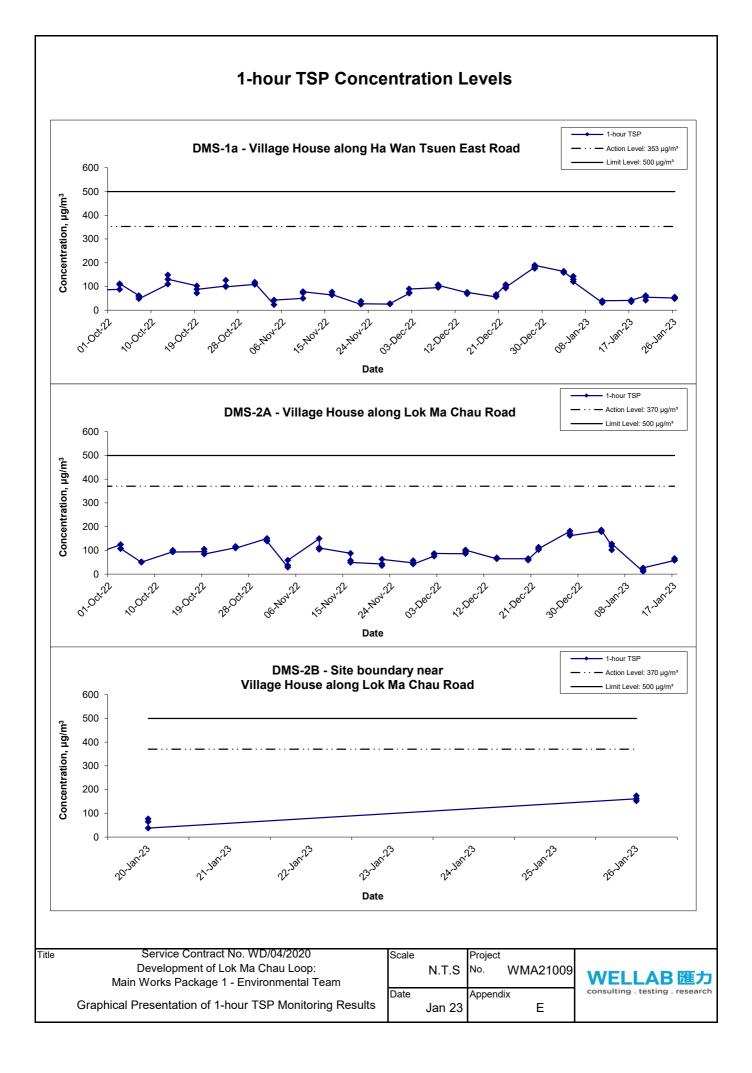
Location DMS-2	ocation DMS-2A - Village House along Lok Ma Chau Road				
Date	Time	Weather	Particulate Concentration (µg/m ³)		
3-Jan-23	8:50	Cloudy	181.4		
3-Jan-23	9:50	Cloudy	178.7		
3-Jan-23	10:50	Cloudy	186.1		
5-Jan-23	8:00	Sunny	117.8		
5-Jan-23	9:00	Sunny	101.3		
5-Jan-23	10:00	Sunny	127.2		
11-Jan-23	8:50	Cloudy	10.8		
11-Jan-23	9:50	Cloudy	17.2		
11-Jan-23	10:50	Cloudy	26.1		
17-Jan-23	13:00	Cloudy	57.4		
17-Jan-23	14:00	Cloudy	65.8		
17-Jan-23	15:00	Cloudy	59.1		
		Minimum	10.8		
		Maximum	186.1		
		Average	94.1		

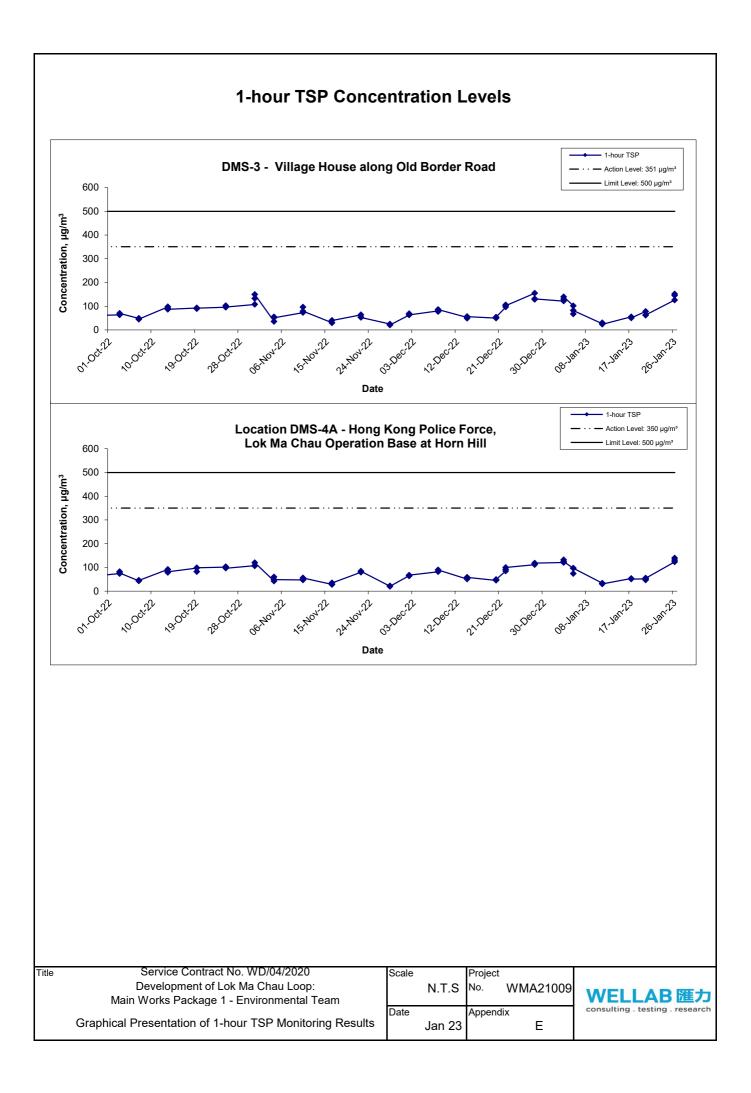
Location DMS-2	Location DMS-2B - Site boundary near Village House along Lok Ma Chau Road					
Date	Time	Weather	Particulate Concentration (µg/m ³)			
20-Jan-23	13:15	Cloudy	76.4			
20-Jan-23	14:15	Cloudy	64.6			
20-Jan-23	15:15	Cloudy	37.5			
26-Jan-23	13:00	Cloudy	161.3			
26-Jan-23	14:00	Cloudy	173.9			
26-Jan-23	15:00	Cloudy	152.3			
<u>.</u>		Minimum	37.5			
		Maximum	173.9			
		Average	111.0			

Date	Time	Weather	Particulate Concentration (µg/m ³)
3-Jan-23	13:00	Cloudy	121.8
3-Jan-23	14:00	Cloudy	129.7
3-Jan-23	15:00	Cloudy	139.5
5-Jan-23	8:25	Sunny	101.8
5-Jan-23	9:25	Sunny	66.9
5-Jan-23	10:25	Sunny	82.0
11-Jan-23	13:00	Cloudy	26.7
11-Jan-23	14:00	Cloudy	30.3
11-Jan-23	15:00	Cloudy	24.0
17-Jan-23	9:00	Cloudy	55.2
17-Jan-23	10:00	Cloudy	53.8
17-Jan-23	11:00	Cloudy	50.4
20-Jan-23	8:20	Cloudy	78.2
20-Jan-23	9:20	Cloudy	61.8
20-Jan-23	10:20	Cloudy	63.3
26-Jan-23	8:00	Cloudy	126.1
26-Jan-23	9:00	Cloudy	151.3
26-Jan-23	10:00	Cloudy	145.3
		Minimum	24.0
		Maximum	151.3
		Average	83.8

Appendix E - 1-hour TSP Monitoring Results

Location DMS-4	Location DMS-4A - Hong Kong Police Force, Lok Ma Chau Operation Base at Horn Hill					
Date	Time	Weather	Particulate Concentration (µg/m ³)			
3-Jan-23	13:20	Cloudy	120.3			
3-Jan-23	14:20	Cloudy	131.8			
3-Jan-23	15:20	Cloudy	125.0			
5-Jan-23	13:00	Sunny	95.9			
5-Jan-23	14:00	Sunny	73.7			
5-Jan-23	15:00	Sunny	96.5			
11-Jan-23	13:00	Cloudy	33.4			
11-Jan-23	14:00	Cloudy	31.7			
11-Jan-23	15:00	Cloudy	30.1			
17-Jan-23	9:00	Cloudy	53.2			
17-Jan-23	10:00	Cloudy	52.2			
17-Jan-23	11:00	Cloudy	50.6			
20-Jan-23	9:00	Cloudy	51.6			
20-Jan-23	10:00	Cloudy	47.1			
20-Jan-23	11:00	Cloudy	54.7			
26-Jan-23	8:50	Cloudy	123.4			
26-Jan-23	9:50	Cloudy	139.3			
26-Jan-23	10:50	Cloudy	130.8			
		Minimum	30.1			
		Maximum	139.3			
		Average	80.1			





APPENDIX F 24-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATION

Appendix F - 24-hour TSP Monitoring Results

Location DMS-	1a - Village ⊦	louse along Ha Wa	an Tsuen East Road
Date	Time	Weather	Particulate Concentration (µg/m ³)
4-Jan-23	9:00	Sunny	129.5
10-Jan-23	8:30	Cloudy	27.4
16-Jan-23	9:00	Cloudy	26.6
20-Jan-23	9:10	Cloudy	34.6
26-Jan-23	9:00	Cloudy	39.3
31-Jan-23	9:00	Fine	39.4
-		Minimum	26.6
		Maximum	129.5
		Average	49.5

Appendix F - 24-hour TSP Monitoring Results

Location DMS-2A - Village House along Lok Ma Chau Road

Start Date	Weather	Air	Atmospheric	Filter W	eight (g)	Particulate	Elapse	e Time	Sampling	Flow Rate	e (m ³ /min.)	Av. flow	Total vol.	Conc.
Start Date	Condition	Temp. (K)	Pressure, Pa (mmHg)	Initial	Final	weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m ³ /min)	(m ³)	(µg/m ³)
4-Jan-23	Sunny	291.0	770.0	2.9392	3.1179	0.1787	2493.7	2517.7	24.0	1.245	1.242	1.243	1790.5	99.8
10-Jan-23	Cloudy	291.2	766.2	2.9976	3.0544	0.0568	2517.7	2541.7	24.0	1.209	1.209	1.209	1741.0	32.6
16-Jan-23	Cloudy	285.8	769.5	2.9577	3.0836	0.1259	2541.8	2565.8	24.0	1.226	1.225	1.226	1764.9	71.3
													Min	32.6
													Max	99.8
													Average	67.9

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

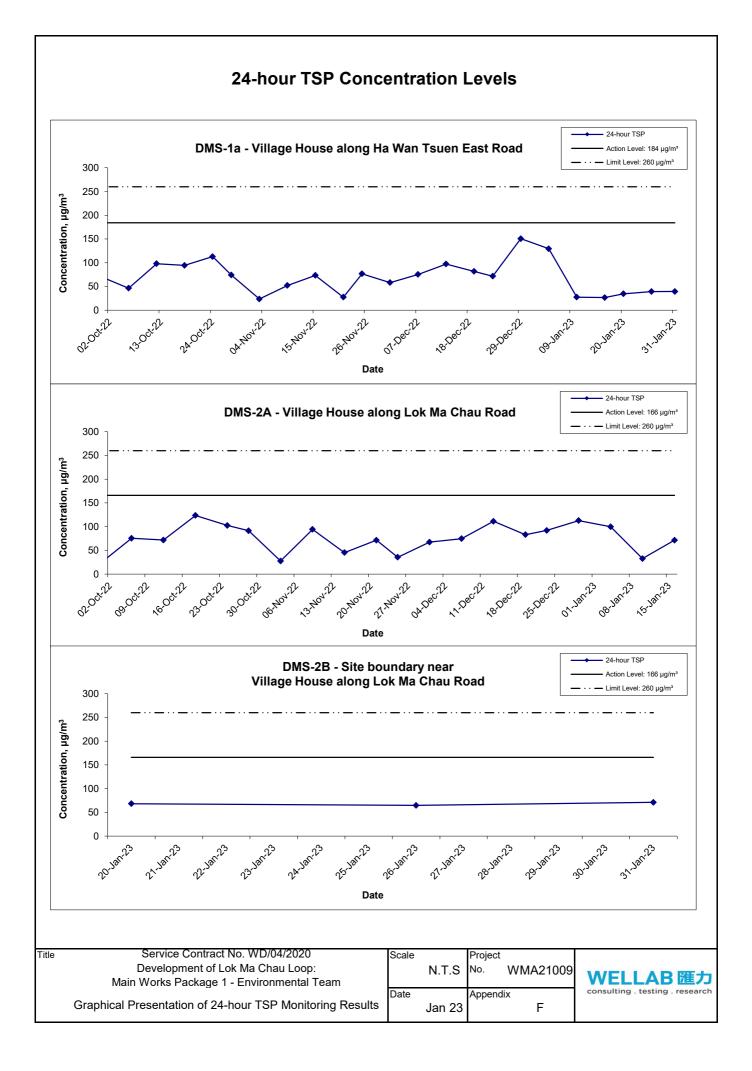
Start Date	Weather	Air	Atmospheric	Filter W	eight (g)	Particulate	Elapse	e Time	Sampling	Flow Rate	e (m ³ /min.)	Av. flow	Total vol.	Conc.
Start Date	Condition	Temp. (K)	Pressure, Pa (mmHg)	Initial	Final	weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m ³ /min)	(m ³)	$(\mu g/m^3)$
20-Jan-23	Cloudy	289.9	769.0	2.9494	3.0686	0.1192	2565.8	2589.8	24.0	1.217	1.213	1.215	1749.5	68.1
26-Jan-23	Cloudy	288.6	768.2	2.9373	3.0507	0.1134	2589.8	2613.8	24.0	1.216	1.219	1.217	1753.1	64.7
31-Jan-23	Sunny	290.2	765.2	2.9723	3.0962	0.1239	2613.8	2637.8	24.0	1.212	1.209	1.211	1743.3	71.1
													Min	64.7
													Max	71.1
													Average	68.0

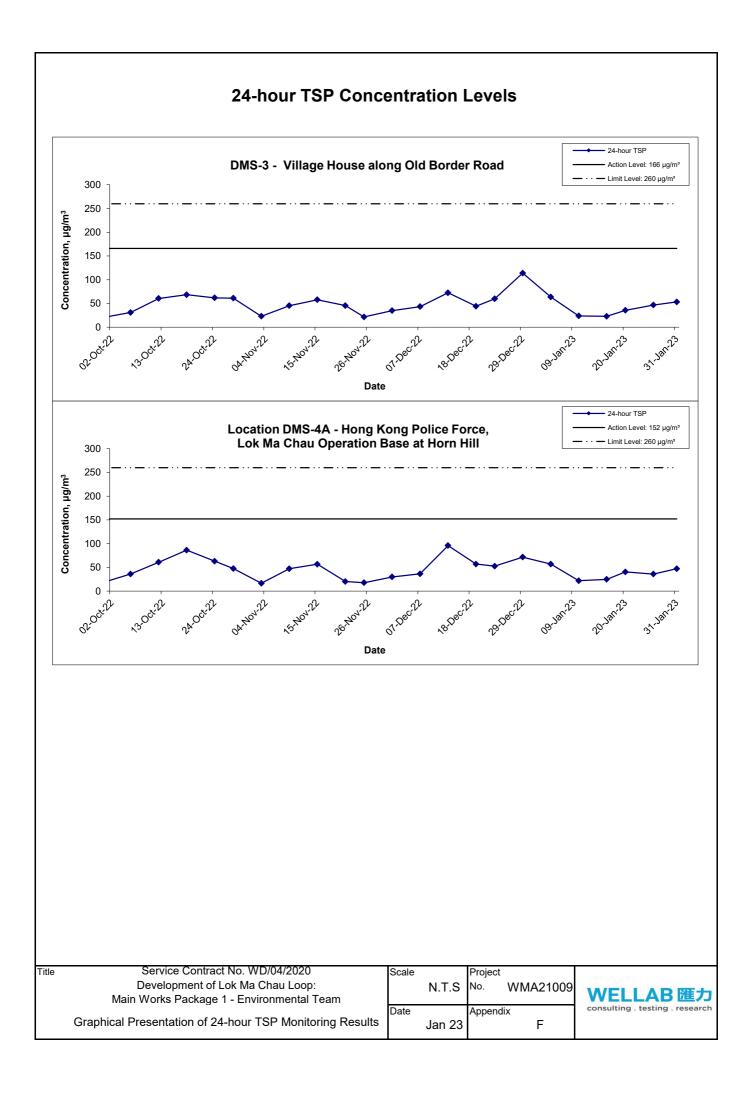
Location DMS-3 - Village House along Old Border Road

Start Date	Weather	Air	Atmospheric	Filter W	eight (g)	Particulate	Elapse	e Time	Sampling	Flow Rate	e (m ³ /min.)	Av. flow	Total vol.	Conc.
Start Date	Condition	Temp. (K)	Pressure, Pa (mmHg)	Initial	Final	weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m ³ /min)	(m ³)	(µg/m³)
4-Jan-23	Sunny	291.0	770.0	2.9404	3.0537	0.1133	3418.3	3442.3	24.0	1.238	1.235	1.236	1780.4	63.6
10-Jan-23	Cloudy	291.2	766.2	2.9748	3.0159	0.0411	3442.3	3466.3	24.0	1.208	1.208	1.208	1739.6	23.6
16-Jan-23	Cloudy	285.8	769.5	2.9178	2.9580	0.0402	3466.3	3490.3	24.0	1.223	1.223	1.223	1761.2	22.8
20-Jan-23	Cloudy	289.9	769.0	2.8782	2.9403	0.0621	3490.3	3514.3	24.0	1.215	1.211	1.213	1747.3	35.5
26-Jan-23	Cloudy	288.6	768.2	2.9797	3.0612	0.0815	3514.3	3538.3	24.0	1.214	1.217	1.216	1750.6	46.6
31-Jan-23	Sunny	290.2	765.2	2.8676	2.9603	0.0927	3538.3	3562.3	24.0	1.211	1.208	1.209	1741.7	53.2
													Min	22.8
													Max	63.6
													Average	40.9

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

Start Date	Weather	Air	Atmospheric	Filter W	eight (g)	Particulate	Elapse	e Time	Sampling	Flow Rate	e (m ³ /min.)	Av. flow	Total vol.	Conc.
Start Date	Condition	Temp. (K)	Pressure, Pa (mmHg)	Initial	Final	weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m ³ /min)	(m ³)	(µg/m ³)
4-Jan-23	Sunny	291.0	770.0	2.9086	3.0094	0.1008	32978.1	33002.1	24.0	1.233	1.230	1.231	1773.0	56.9
10-Jan-23	Cloudy	291.2	766.2	2.9805	3.0184	0.0379	33002.1	33026.1	24.0	1.210	1.209	1.209	1741.6	21.8
16-Jan-23	Cloudy	285.8	769.5	2.9685	3.0121	0.0436	33026.1	33050.1	24.0	1.225	1.225	1.225	1764.1	24.7
20-Jan-23	Cloudy	289.9	769.0	2.9276	2.9983	0.0707	33050.2	33074.2	24.0	1.217	1.213	1.215	1749.6	40.4
26-Jan-23	Cloudy	288.6	768.2	2.9539	3.0166	0.0627	33074.2	33098.2	24.0	1.216	1.219	1.217	1753.0	35.8
31-Jan-23	Sunny	290.2	765.2	2.9556	3.0377	0.0821	33098.2	33122.2	24.0	1.212	1.210	1.211	1743.7	47.1
													Min	21.8
													Max	56.9
													Average	37.8





APPENDIX G NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATION

Appendix G - Noise Monitoring Results

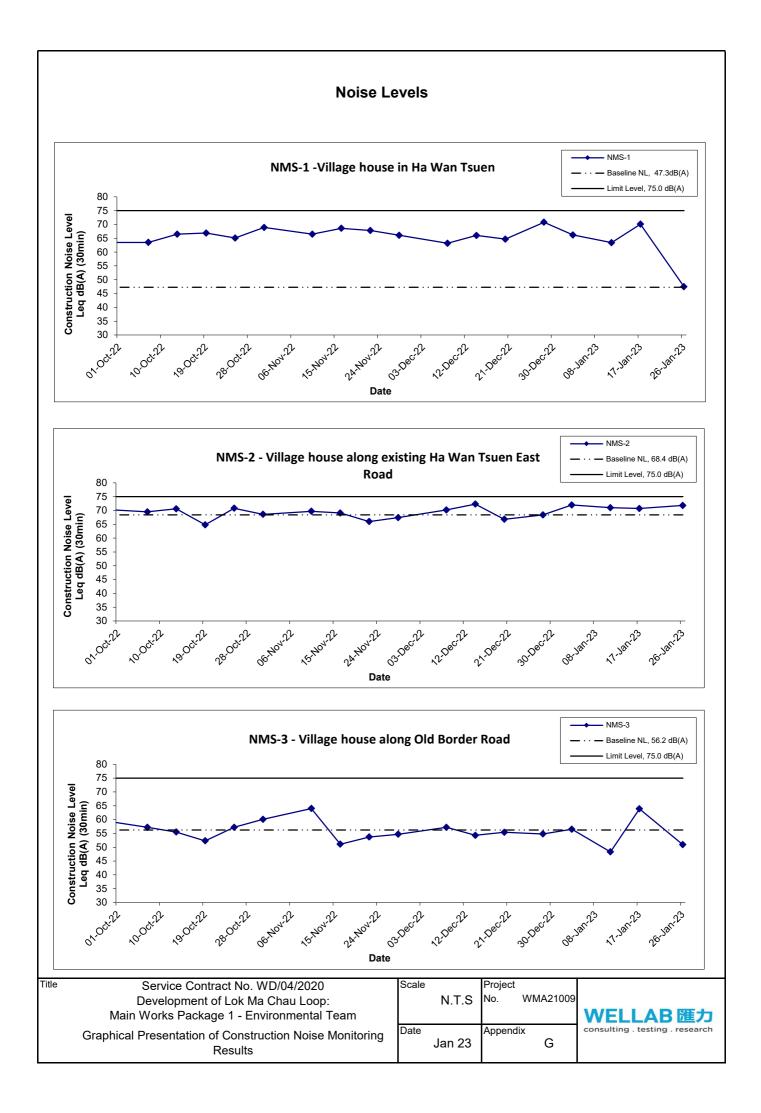
Location NMS	-1 -Village ho	use in Ha W	an Tsuen				
Data		Times	Un	it: dB (A) (5-r	nin)	Average	Baseline Level
Date	Weather	Time	L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
		08:10	67.8	70.6	62.7		Ì
		08:15	66.0	66.9	62.9		
3-Jan-23	Cloudy	08:20	64.5	65.8	62.6	66.2	
5-5a11-25	Cloudy	08:25	66.3	67.3	63.5	00.2	
		08:30	65.6	66.7	64.4		
		08:35	66.5	67.7	64.4		
		09:20	65.7	66.6	61.1		
		09:25	61.2	62.4	59.6		
11-Jan-23	Cloudy	09:30	65.9	65.7	61.4	63.4	
11-Jan-25	Cloudy	09:35	61.1	61.8	60.3	03.4	
		09:40	60.5	60.9	54.4		
		09:45	62.3	63.3	61.1		47.3
		09:40	72.1	74.1	68.9		47.3
		09:45	70.2	71.1	68.5		
17-Jan-23	Cloudy	09:50	69.7	70.6	67.8	70.1	
17-Jan-23	Cloudy	09:55	68.9	70.0	67.6	70.1	
		10:00	68.6	69.7	67.5		
		10:05	70.3	72.5	68.0		
		08:25	49.9	50.6	46.5		
		08:30	48.9	51.4	46.0		
26-Jan-23	Cloudy	08:35	47.2	50.3	43.9	47.5	
20-3411-23	Cloudy	08:40	45.9	47.9	44.1	47.5	
		08:45	45.1	46.3	44.0		
		08:50	45.4	50.1	45.8		

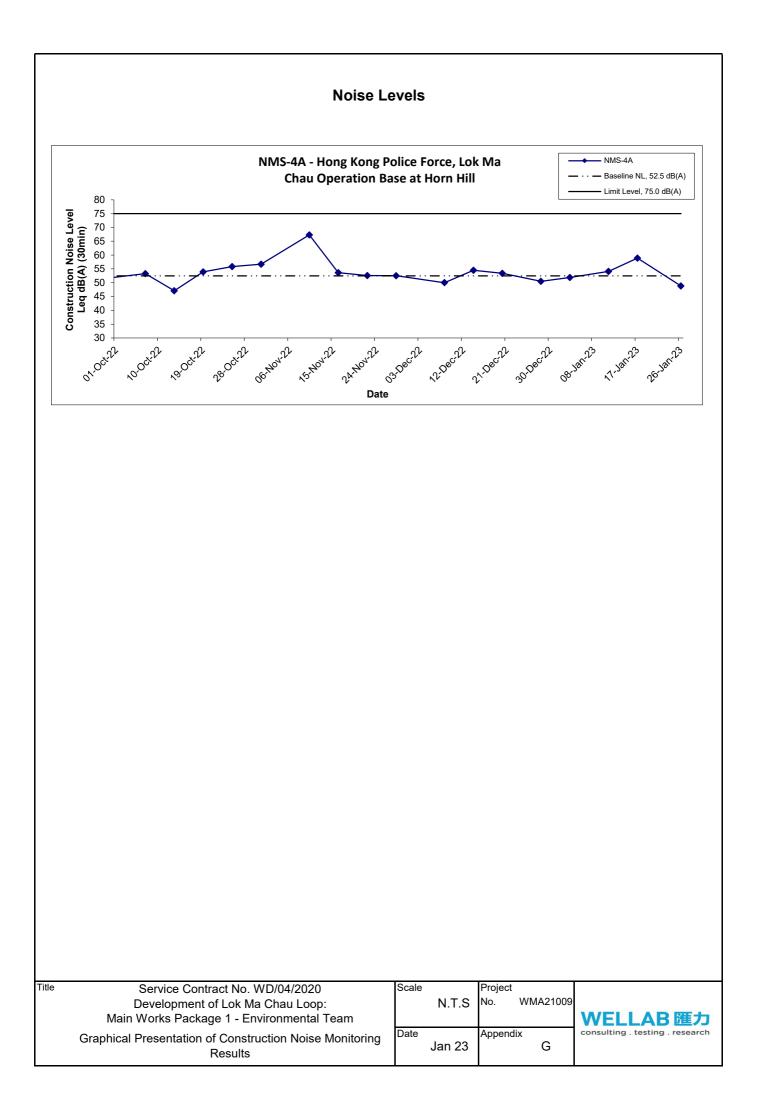
Data		T :	Un	it: dB (A) (5-n	nin)	Average	Baseline Leve
Date	Weather	Time	L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
		10:15	71.8	74.3	51.9		
		10:20	74.1	76.1	51.5		
3-Jan-23	Cloudy	10:25	70.2	74.3	53.3	72.0	
5-Jan-25	Cloudy	10:30	69.9	74.9	54.3	72.0	
		10:35	70.4	74.3	53.3		
		10:40	73.5	77.2	53.1		
		09:05	69.9	74.3	55.9		
		09:10	72.6	76.5	57.7		
11-Jan-23	Cloudy	09:15	71.1	75.1	54.1	71.0	
11-Jan-25	Cloudy	09:20	69.9	73.2	55.4	71.0	
		09:25	70.8	74.5	61.0		
		09:30	71.1	74.7	59.2		<u> </u>
		13:05	69.8	73.7	53.7		68.4
		13:10	70.1	73.4	54.7		
17-Jan-23	Cloudy	13:15	71.3	74.1	54.3	70.7	
17-Jan-25	Cloudy	13:20	69.6	73.3	55.4	70.7	
		13:25	71.2	74.1	63.9		
		13:30	71.5	75.3	55.9		
		13:00	71.0	75.2	53.4		1
		13:05	71.9	74.1	51.6		
06 Jan 02	Claudy	13:10	71.5	75.9	52.0	71.0	
26-Jan-23	Cloudy	13:15	71.3	73.1	51.0	71.8	
		13:20	72.9	75.9	49.9		
		13:25	71.8	76.3	53.0		

Appendix G - Noise Monitoring Results

Location NMS	-3 - Village ho	ouse along C	Old Border R	load			
Data		Times	Un	it: dB (A) (5-r	nin)	Average	Baseline Level
Date	Weather	Time	L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
		13:00	56.0	57.0	54.8		
		13:05	56.5	58.1	54.9		
3-Jan-23	Cloudy	13:10	56.4	58.0	54.4	56.5	
3-Jan-23	Cloudy	13:15	55.9	57.3	54.3	50.5	
		13:20	57.3	58.6	54.9		
		13:25	56.8	57.9	53.2		
		14:00	49.9	51.8	45.5		
		14:05	49.7	52.3	44.7		
11-Jan-23	Cloudy	14:10	48.0	50.8	44.2	48.3	
11-Jan-23	Cloudy	14:15	46.8	49.0	44.0	40.5	
		14:20	47.5	50.2	43.8		
		14:25	46.9	49.8	43.1		56.2
		09:45	59.2	59.6	56.3		00.Z
		09:50	70.7	73.0	56.4		
17-Jan-23	Cloudy	09:55	57.2	57.9	56.2	63.9	
17-Jan-23	Cloudy	10:00	57.5	59.1	56.2	03.9	
		10:05	57.8	59.3	56.5		
		10:10	57.5	58.4	56.4		
		09:20	51.1	52.2	49.9		
		09:25	50.6	51.8	49.5		
26-Jan-23	Cloudy	09:30	51.2	52.5	49.8	50.9	
20-Jan-23	Cloudy	09:35	50.5	51.3	49.5	50.9	
		09:40	51.2	52.4	49.6		
		09:45	50.9	51.8	49.7		

Location NMS	-4A - Hong K	ong Police F	orce, Lok M	a Chau Opei	ration Base a	at Horn Hill	
Dete	Weather	Time	Un	it: dB (A) (5-n	nin)	Average	Baseline Level
Date	weather	Time	L _{eq}	L ₁₀	L ₉₀	L _{eq}	L _{eq}
		14:20	51.5	54.7	42.0		
		14:25	54.2	53.9	41.5		
3-Jan-23	Cloudy	14:30	49.6	51.5	41.1	51.9	
J-Jan-25	Cloudy	14:35	54.5	55.6	43.0	51.5	
		14:40	50.0	50.7	42.3		
		14:45	47.3	50.0	42.2		
		13:30	57.2	57.4	51.9		
		13:35	53.7	54.2	51.6		
11-Jan-23	Cloudy	13:40	53.6	54.5	51.2	54.1	
11-Jan-25	Cloudy	13:45	52.8	53.8	51.4	54.1	
		13:50	52.5	53.6	51.2		
		13:55	52.4	53.6	51.2		50 F
		10:30	48.9	50.5	46.9		52.5
		10:35	51.4	53.1	46.9		
17-Jan-23	Cloudy	10:40	50.4	52.3	45.7	58.9	
17-Jan-25	Cloudy	10:45	49.3	51.5	46.3	50.9	
		10:50	66.1	71.4	46.0		
		10:55	52.8	53.8	45.1		
		11:00	48.9	49.3	48.4		1
		11:05	48.8	49.2	48.4		
26-Jan-23	Cloudy	11:10	48.8	49.2	48.4	48.8	
20-Jan-23	Cioudy	11:15	48.9	49.4	48.4	40.0	
		11:20	48.9	49.3	48.3		
		11:25	48.5	48.9	48.0		





APPENDIX H WATER QUALITY MONITORING RESULTS AND GRAPHICAL PRESENTATION

Water Quality Monitoring Results at CS1

Date	Weather	Sea	Sampling	Dent	h (m)	Tempera	ature (°C)	þ	ъН	Salin	ity ppt	DO Satu	ration (%)	Dissolved O	xygen (mg/L)	Turbidi	ity(NTU)	Suspended	Solids (mg/L)
Date	Condition	Condition**	Time	Depi	()	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
3-Jan-23	Cloudy	Calm	10:39	Middle	0.5	16.9 16.9	16.9	7.7 7.6	7.7	6.3 6.3	6.3	74.6 74.3	74.5	7.0 6.9	7.0	8.7 8.7	8.7	15 14	14.5
5-Jan-23	Sunny	Calm	11:05	Middle	0.3	19.3 19.3	19.3	8.0 8.0	8.0	6.0 6.0	6.0	88.7 88.6	88.7	7.9 7.9	7.9	12.5 12.3	12.4	28 26	27.0
7-Jan-23	Sunny	Calm	09:45	Middle	0.5	18.6 18.6	18.6	7.6 7.6	7.6	6.4 6.4	6.4	100.3 100.1	100.2	9.0 9.0	9.0	12.4 12.5	12.5	22 24	23.0
9-Jan-23	Cloudy	Calm	10:41	Middle	0.5	18.9 18.9	18.9	8.0 8.0	8.0	6.6 6.6	6.6	111.2 111.2	111.2	9.9 9.9	9.9	12.9 12.9	12.9	33 33	33.0
11-Jan-23	Cloudy	Calm	11:47	Middle	0.5	18.8 18.8	18.8	7.5 7.5	7.5	6.6 6.6	6.6	63.6 63.6	63.6	5.7 5.7	5.7	7.2 7.1	7.2	15 17	16.0
13-Jan-23	Rainy	Calm	10:13	Middle	0.5	20.6 20.6	20.6	7.5 7.5	7.5	6.7 6.7	6.7	79.7 79.6	79.7	6.9 6.9	6.9	25.2 25.0	25.1	40 37	38.5
16-Jan-23	Sunny	Calm	09:04	Middle	0.5	17.4 17.4	17.4	7.5 7.5	7.5	6.7 6.8	6.8	69.8 69.6	69.7	6.4 6.4	6.4	11.5 11.4	11.5	14 16	15.0
18-Jan-23	Sunny	Calm	10:36	Middle	0.5	15.8 15.8	15.8	7.7 7.7	7.7	6.4 6.4	6.4	80.2 80.1	80.2	7.7 7.6	7.7	15.7 15.6	15.7	24 27	25.5
20-Jan-23	Cloudy	Calm	10:59	Middle	0.5	16.3 16.3	16.3	8.3 8.3	8.3	6.9 6.9	6.9	129.0 129.2	129.1	12.1 12.2	12.2	7.6 7.6	7.6	15 17	16.0
26-Jan-23	Cloudy	Calm	11:09	Middle	0.5	16.4 16.4	16.4	7.7 7.7	7.7	8.1 8.1	8.1	73.6 73.4	73.5	6.9 6.8	6.9	6.4 6.3	6.4	8 7	7.5
28-Jan-23	Sunny	Calm	10:11	Middle	0.5	14.3 14.4	14.4	7.9 7.9	7.9	8.9 8.9	8.9	105.3 105.3	105.3	10.2 10.2	10.2	7.1 7.1	7.1	19 22	20.5
30-Jan-23	Sunny	Calm	10:40	Middle	0.2	16.1 16.1	16.1	8.7 8.7	8.7	3.8 3.9	3.9	154.4 154.6	154.5	14.9 14.9	14.9	18.9 18.7	18.8	39 48	43.5

Water Quality Monitoring Results at CS5

Date	Weather	Sea	Sampling	Dent	th (m)	Tempera	ature (°C)	F	ъH	Salin	ity ppt	DO Satu	ration (%)	Dissolved O	xygen (mg/L)	Turbid	ity(NTU)	Suspended	Solids (mg/L)
Date	Condition	Condition**	Time	Depi	ui (iii)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
3-Jan-23	Cloudy	Calm	09:15	Middle	0.1	16.2 16.2	16.2	8.1 8.1	8.1	0.6 0.6	0.6	117.1 117.1	117.1	11.5 11.5	11.5	13.4 13.7	13.6	21 26	23.5
5-Jan-23	Sunny	Calm	10:13	Middle	0.1	19.2 19.2	19.2	8.7 8.7	8.7	1.0 1.0	1.0	131.2 131.3	131.3	12.1 12.1	12.1	20.9 22.8	21.9	18 14	16.0
7-Jan-23	Sunny	Calm	10:32	Middle	0.2	18.0 18.0	18.0	8.4 8.4	8.4	0.9 0.9	0.9	139.1 139.3	139.2	13.1 13.1	13.1	5.3 5.1	5.2	8 9	8.5
9-Jan-23	Cloudy	Calm	09:54	Middle	0.1	18.2 18.3	18.3	8.4 8.4	8.4	1.2 1.2	1.2	98.9 98.8	98.9	9.3 9.2	9.3	7.2 7.3	7.3	13 12	12.5
11-Jan-23	Cloudy	Calm	09:39	Middle	0.1	18.5 18.5	18.5	7.8 7.8	7.8	0.6 0.6	0.6	78.5 78.5	78.5	7.3 7.3	7.3	7.4 7.5	7.5	23 27	25.0
13-Jan-23	Rainy	Calm	09:20	Middle	0.1	20.4 20.4	20.4	7.7 7.7	7.7	0.9 0.9	0.9	74.0 73.7	73.9	6.7 6.6	6.7	6.5 6.4	6.5	7 7	7.0
16-Jan-23	Sunny	Calm	08:14	Middle	0.1	13.2 13.2	13.2	7.9 7.9	7.9	0.5 0.5	0.5	89.1 89.0	89.1	9.3 9.3	9.3	28.9 29.1	29.0	61 60	60.5
18-Jan-23	Sunny	Calm	09:49	Middle	0.5	13.6 13.6	13.6	8.6 8.6	8.6	0.6 0.6	0.6	111.4 111.5	111.5	11.6 11.6	11.6	12.1 12.0	12.1	26 27	26.5
20-Jan-23	Cloudy	Calm	10:03	Middle	0.1	15.4 15.4	15.4	8.3 8.3	8.3	1.1 1.1	1.1	106.0 106.0	106.0	10.5 10.5	10.5	19.2 18.4	18.8	43 42	42.5
26-Jan-23	Cloudy	Calm	09:35	Middle	0.1	14.9 14.9	14.9	8.7 8.7	8.7	2.8 2.8	2.8	109.3 109.3	109.3	10.9 10.9	10.9	8.0 8.1	8.1	12 11	11.5
28-Jan-23	Sunny	Calm	09:25	Middle	0.1	11.0 11.0	11.0	8.6 8.6	8.6	2.0 2.0	2.0	118.9 119.0	119.0	13.0 13.0	13.0	15.1 15.3	15.2	34 31	32.5
30-Jan-23	Sunny	Calm	09:56	Middle	0.1	13.4 13.4	13.4	8.6 8.6	8.6	1.2 1.2	1.2	129.6 129.6	129.6	13.5 13.5	13.5	23.6 23.6	23.6	44 44	44.0

Water Quality Monitoring Results at IS1

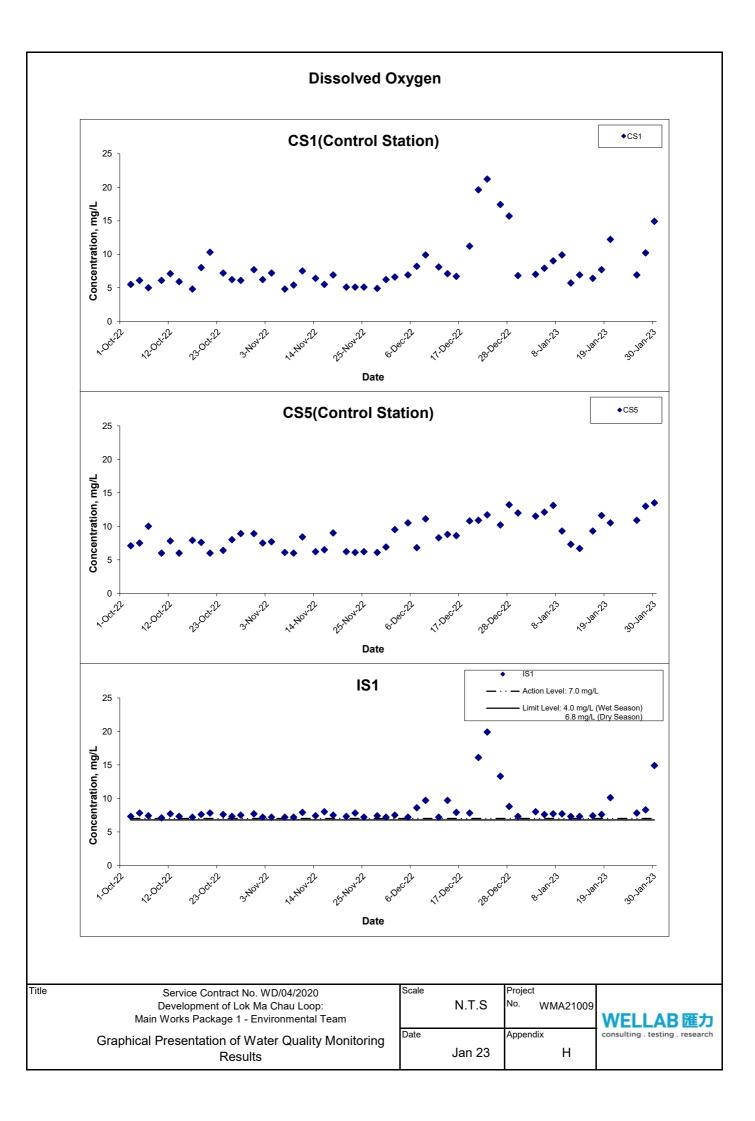
Date	Weather	Sea	Sampling	Dent	h (m)	Tempera	ature (°C)	ŗ	Η	Salin	ity ppt	DO Satu	ration (%)	Dissolved O	xygen (mg/L)	Turbid	ity(NTU)	Suspended	Solids (mg/L)
Date	Condition	Condition**	Time	Dehr		Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
3-Jan-23	Cloudy	Calm	10:20	Middle	0.4	16.7 16.7	16.7	7.1 7.1	7.1	6.5 6.5	6.5	85.4 85.2	85.3	8.0 8.0	8.0	10.7 10.7	10.7	12 10	11.0
5-Jan-23	Sunny	Calm	10:44	Middle	0.2	18.5 18.5	18.5	7.6 7.6	7.6	6.3 6.3	6.3	84.6 84.6	84.6	7.6 7.6	7.6	11.3 11.4	11.4	11 12	11.5
7-Jan-23	Sunny	Calm	09:58	Middle	0.5	17.8 17.8	17.8	7.4 7.3	7.4	7.2 7.2	7.2	83.7 84.2	84.0	7.6 7.7	7.7	6.4 6.3	6.4	9 11	10.0
9-Jan-23	Cloudy	Calm	10:22	Middle	0.5	18.3 18.3	18.3	7.2 7.2	7.2	7.3 7.3	7.3	84.8 85.0	84.9	7.6 7.7	7.7	9.3 9.4	9.4	16 16	16.0
11-Jan-23	Cloudy	Calm	10:16	Middle	0.5	18.7 18.7	18.7	7.0 7.0	7.0	7.2 7.2	7.2	80.7 81.0	80.9	7.2 7.3	7.3	7.6 7.6	7.6	17 16	16.5
13-Jan-23	Rainy	Calm	09:49	Middle	0.5	19.6 19.6	19.6	7.0 7.0	7.0	7.3 7.3	7.3	82.1 82.7	82.4	7.2 7.3	7.3	6.0 5.8	5.9	10 10	10.0
16-Jan-23	Sunny	Calm	08:40	Middle	0.5	16.4 16.4	16.4	7.0 7.0	7.0	6.9 6.9	6.9	77.8 78.7	78.3	7.3 7.4	7.4	5.4 5.4	5.4	7 7	7.0
18-Jan-23	Sunny	Calm	10:14	Middle	0.6	14.2 14.2	14.2	7.4 7.4	7.4	6.6 6.6	6.6	76.6 77.0	76.8	7.6 7.6	7.6	5.7 5.4	5.6	7 8	7.5
20-Jan-23	Cloudy	Calm	10:37	Middle	0.5	16.4 16.4	16.4	7.8 7.8	7.8	7.6 7.6	7.6	108.5 108.5	108.5	10.1 10.1	10.1	6.7 6.6	6.7	15 15	15.0
26-Jan-23	Cloudy	Calm	10:56	Middle	0.5	15.5 15.5	15.5	7.7 7.7	7.7	8.5 8.5	8.5	82.4 82.2	82.3	7.8 7.8	7.8	4.5 4.5	4.5	6 5	5.5
28-Jan-23	Sunny	Calm	09:53	Middle	0.5	13.1 13.1	13.1	7.4 7.4	7.4	9.1 9.1	9.1	83.8 83.4	83.6	8.3 8.3	8.3	5.7 5.8	5.8	19 20	19.5
30-Jan-23	Sunny	Calm	10:22	Middle	0.2	11.9 11.9	11.9	8.6 8.6	8.6	6.7 6.7	6.7	143.9 144.0	144.0	14.9 14.9	14.9	5.3 5.4	5.4	14 14	14.0

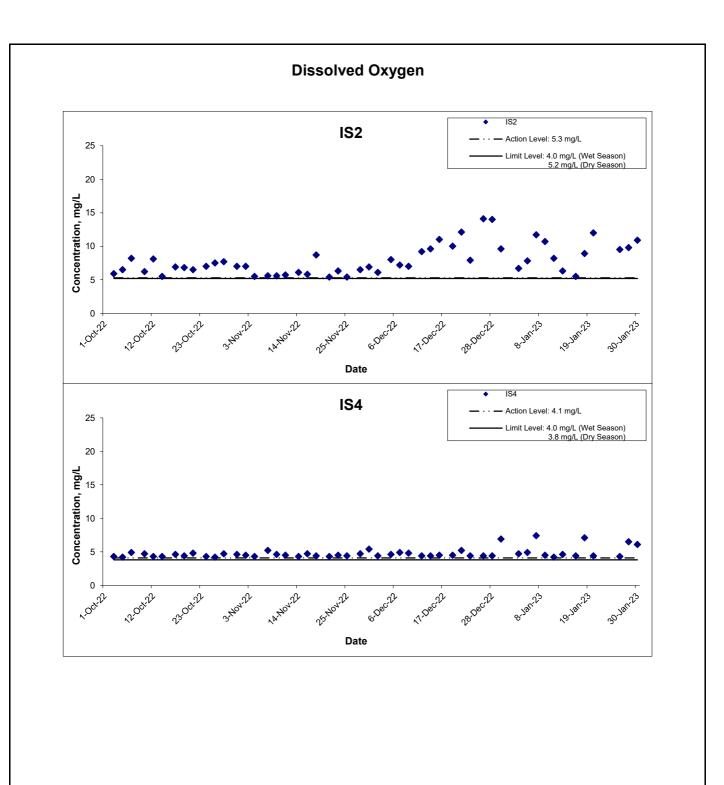
Water Quality Monitoring Results at IS2

Date	Weather	Sea	Sampling	Dent	h (m)	Tempera	ature (°C)	F	ъH	Salin	ity ppt	DO Satu	ration (%)	Dissolved O	xygen (mg/L)	Turbid	ity(NTU)	Suspended	Solids (mg/L)
Date	Condition	Condition**	Time	Вер		Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
3-Jan-23	Cloudy	Calm	08:44	Middle	0.1	17.2 17.2	17.2	7.2 7.3	7.3	6.2 6.2	6.2	72.4 72.3	72.4	6.7 6.7	6.7	13.2 13.2	13.2	18 23	20.5
5-Jan-23	Sunny	Calm	09:59	Middle	0.1	18.6 18.6	18.6	7.5 7.5	7.5	2.5 2.5	2.5	84.4 84.3	84.4	7.8 7.8	7.8	18.9 18.8	18.9	26 31	28.5
7-Jan-23	Sunny	Calm	10:46	Middle	0.2	19.0 19.0	19.0	8.1 8.1	8.1	5.6 5.6	5.6	130.0 130.2	130.1	11.7 11.7	11.7	9.7 9.7	9.7	19 22	20.5
9-Jan-23	Cloudy	Calm	09:38	Middle	0.1	18.8 18.8	18.8	7.7 7.7	7.7	7.5 7.5	7.5	120.2 120.2	120.2	10.7 10.7	10.7	19.5 19.7	19.6	35 40	37.5
11-Jan-23	Cloudy	Calm	09:22	Middle	0.2	18.7 18.7	18.7	7.2 7.2	7.2	3.4 3.4	3.4	89.8 89.7	89.8	8.2 8.2	8.2	18.3 18.4	18.4	25 28	26.5
13-Jan-23	Rainy	Calm	09:00	Middle	0.2	19.9 19.9	19.9	7.3 7.3	7.3	7.2 7.2	7.2	71.9 71.7	71.8	6.3 6.3	6.3	16.2 16.1	16.2	29 24	26.5
16-Jan-23	Sunny	Calm	07:59	Middle	0.1	15.4 15.4	15.4	7.0 7.0	7.0	4.6 4.6	4.6	56.0 56.4	56.2	5.4 5.5	5.5	17.7 17.6	17.7	27 26	26.5
18-Jan-23	Sunny	Calm	09:39	Middle	0.4	14.8 14.8	14.8	7.2 7.2	7.2	3.2 3.2	3.2	89.4 89.1	89.3	8.9 8.9	8.9	11.8 11.7	11.8	15 16	15.5
20-Jan-23	Cloudy	Calm	09:42	Middle	0.1	16.3 16.3	16.3	8.2 8.2	8.2	7.6 7.6	7.6	128.1 128.5	128.3	12.0 12.0	12.0	7.3 7.2	7.3	16 15	15.5
26-Jan-23	Cloudy	Calm	09:19	Middle	0.1	15.5 15.5	15.5	7.7 7.7	7.7	9.4 9.4	9.4	100.5 100.5	100.5	9.5 9.5	9.5	12.1 12.0	12.1	19 22	20.5
28-Jan-23	Sunny	Calm	09:08	Middle	0.1	14.6 14.6	14.6	7.6 7.6	7.6	7.5 7.5	7.5	100.9 100.8	100.9	9.8 9.8	9.8	23.8 23.8	23.8	25 29	27.0
30-Jan-23	Sunny	Calm	09:43	Middle	0.1	16.1 16.1	16.1	8.1 8.1	8.1	7.9 7.9	7.9	115.7 115.8	115.8	10.9 10.9	10.9	32.1 31.7	31.9	28 24	26.0

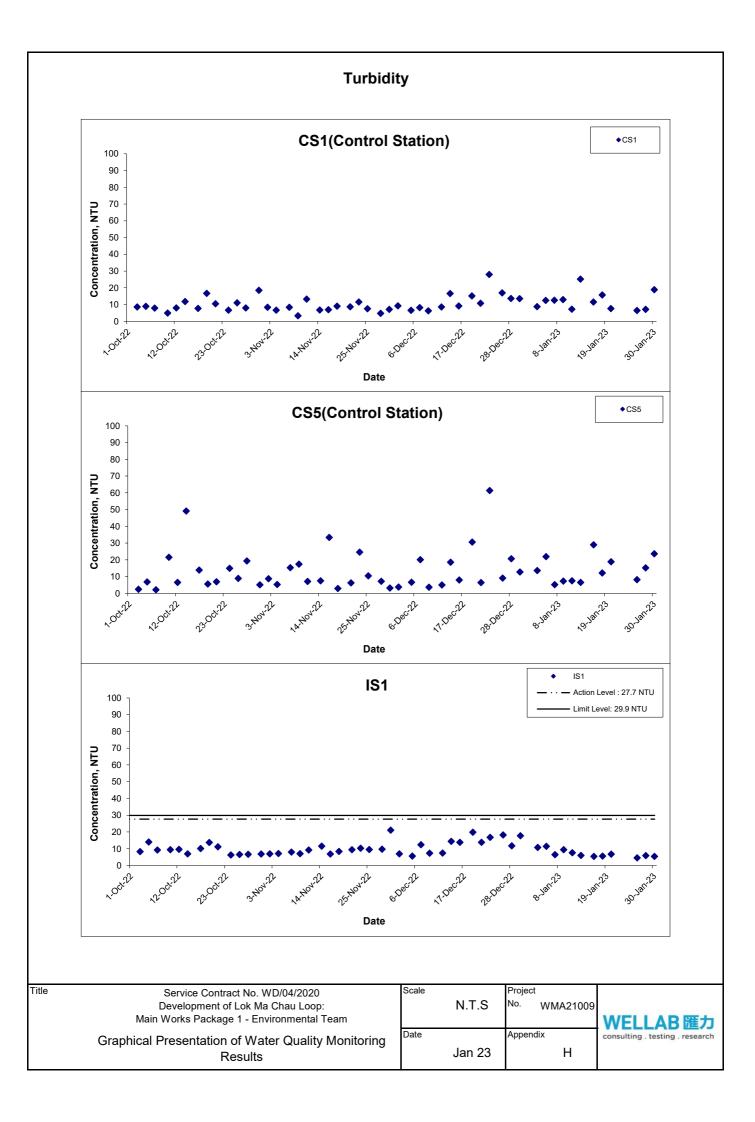
Water Quality Monitoring Results at IS4

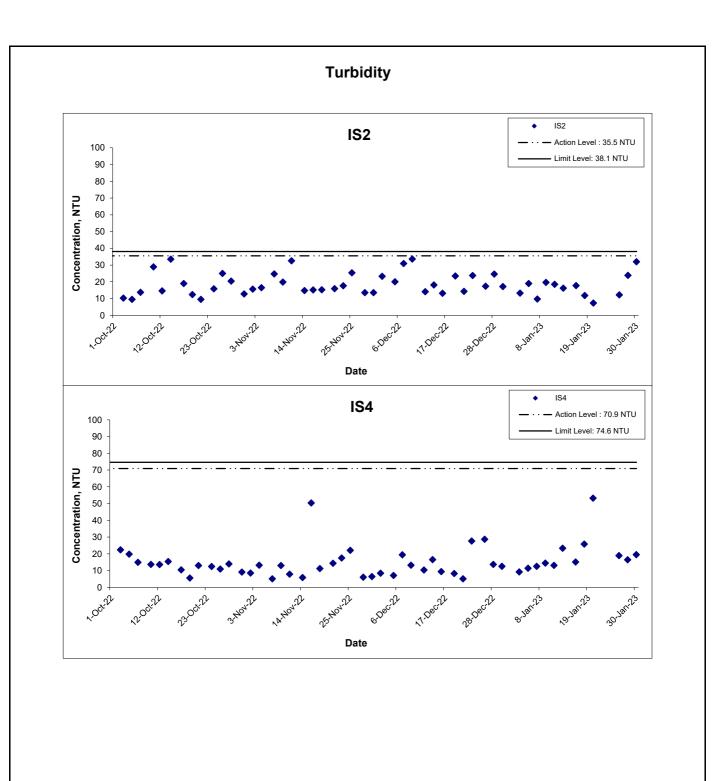
Date	Weather	Sea	Sampling	Dent	th (m)	Tempera	ature (°C)	F	Η	Salin	ity ppt	DO Satu	ration (%)	Dissolved O	xygen (mg/L)	Turbid	ity(NTU)	Suspended	Solids (mg/L)
Date	Condition	Condition**	Time	Depi	ui (iii)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
3-Jan-23	Cloudy	Calm	10:00	Middle	0.2	15.4 15.4	15.4	7.2 7.2	7.2	0.1 0.1	0.1	46.7 46.2	46.5	4.7 4.6	4.7	9.2 9.1	9.2	6 5	5.5
5-Jan-23	Sunny	Calm	10:28	Middle	0.1	16.7 16.6	16.7	7.6 7.6	7.6	0.1 0.1	0.1	50.1 49.8	50.0	4.9 4.9	4.9	11.8 10.9	11.4	9 8	8.5
7-Jan-23	Sunny	Calm	10:14	Middle	0.2	17.0 17.1	17.1	7.8 7.8	7.8	0.1 0.1	0.1	76.6 76.1	76.4	7.4 7.3	7.4	12.7 12.2	12.5	20 22	21.0
9-Jan-23	Cloudy	Calm	10:08	Middle	0.2	17.0 17.0	17.0	7.3 7.3	7.3	0.1 0.1	0.1	45.1 46.8	46.0	4.4 4.5	4.5	15.0 13.8	14.4	15 16	15.5
11-Jan-23	Cloudy	Calm	10:05	Middle	0.2	17.4 17.4	17.4	7.0 7.0	7.0	0.1 0.1	0.1	44.0 43.8	43.9	4.2 4.2	4.2	12.9 13.3	13.1	7 6	6.5
13-Jan-23	Rainy	Calm	09:33	Middle	0.2	18.9 18.9	18.9	7.2 7.2	7.2	0.1 0.1	0.1	48.7 49.3	49.0	4.5 4.6	4.6	23.4 23.2	23.3	23 18	20.5
16-Jan-23	Sunny	Calm	08:27	Middle	0.1	14.1 14.1	14.1	7.1 7.1	7.1	0.1 0.1	0.1	41.9 42.5	42.2	4.3 4.4	4.4	15.1 15.0	15.1	10 11	10.5
18-Jan-23	Sunny	Calm	10:04	Middle	0.1	13.5 13.5	13.5	8.1 8.1	8.1	0.1 0.1	0.1	68.0 67.3	67.7	7.1 7.0	7.1	25.7 25.9	25.8	34 28	31.0
20-Jan-23	Cloudy	Calm	10:18	Middle	0.2	14.6 14.6	14.6	7.7 7.7	7.7	0.1 0.1	0.1	42.7 42.9	42.8	4.3 4.4	4.4	54.5 51.8	53.2	99 117	108.0
26-Jan-23	Cloudy	Calm	10:21	Middle	0.1	13.7 13.7	13.7	7.8 7.7	7.8	0.1 0.1	0.1	41.0 40.4	40.7	4.3 4.2	4.3	18.8 18.9	18.9	9 10	9.5
28-Jan-23	Sunny	Calm	09:40	Middle	0.1	9.8 9.8	9.8	7.7 7.6	7.7	0.1 0.1	0.1	57.2 56.9	57.1	6.5 6.5	6.5	16.7 16.0	16.4	17 14	15.5
30-Jan-23	Sunny	Calm	10:08	Middle	0.1	10.8 10.9	10.9	7.8 7.8	7.8	0.1 0.1	0.1	54.9 54.0	54.5	6.1 6.0	6.1	19.6 19.3	19.5	18 22	20.0



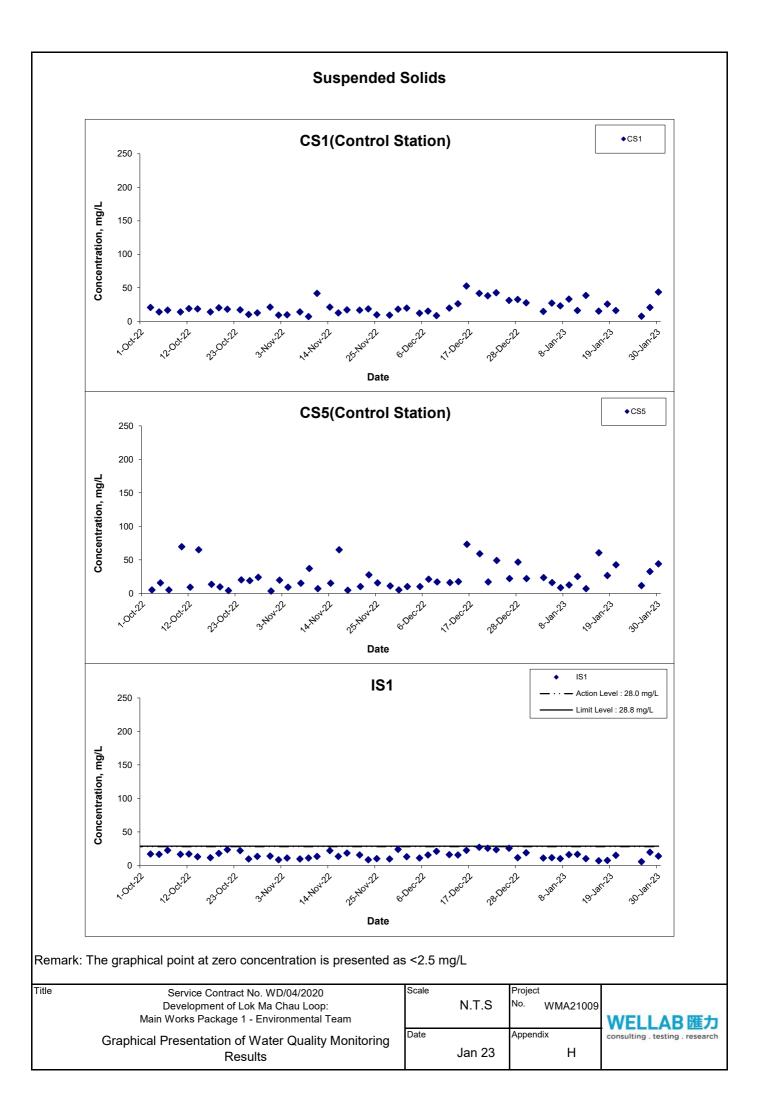


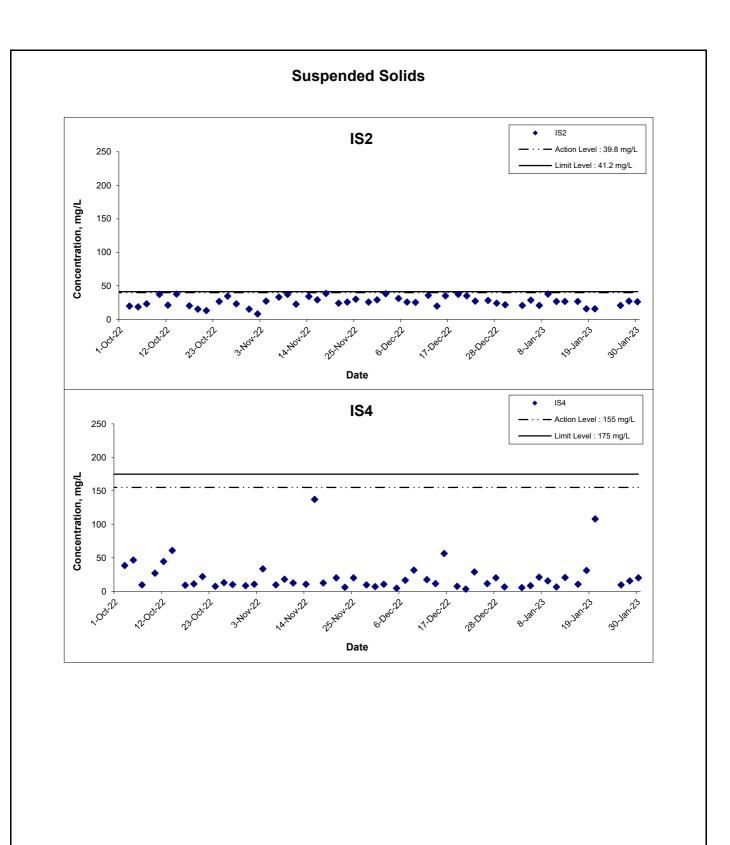
Title	Service Contract No. WD/04/2020 Development of Lok Ma Chau Loop: Main Works Package 1 - Environmental Team	Scale		Project No.	WMA21009	WELLAB匯力
	Graphical Presentation of Water Quality Monitoring Results	Date	Jan 23	Append	lix H	consulting . testing . research





Tit	e 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					WELLAB
	Graphical Presentation of Water Quality Monitoring	Date		Append	lix	consulting . testing . research
	Results		Jan 23		н	





٦	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			WELLAB
	Graphical Presentation of Water Quality Monitoring	Date	Appendix	consulting . testing . research
	Results	Jan 23	н	

APPENDIX I WEATHER CONDITION

APPENDIX I – GENERAL WEATHER CONDITIONS DURING THE MONITORING PERIOD

Date	Mean Air Temperature (°C)	Mean Relative Humidity (%)	Precipitation (mm)	
1 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	

Development of Lok Ma Chau Loop Monthly EM&A Report – January 2023

		thly EM&A Report – Mean Relative	Precipitation
Date	Mean Air Temperature (°C)	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	00:00	0.0	SSW
4-Jan-2023	01:00	0.0	SSE
4-Jan-2023	02:00	0.0	SSW
4-Jan-2023	03:00	0.4	SSW
4-Jan-2023	04:00	0.0	SSW
4-Jan-2023	05:00	0.0	SSW
4-Jan-2023	06:00	0.0	SSW
4-Jan-2023	07:00	0.4	SSW
4-Jan-2023	08:00	0.4	SSW
4-Jan-2023	09:00	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	00:00	0.0	
5-Jan-2023	01:00	0.0	
5-Jan-2023	02:00	0.0	SW
5-Jan-2023	03:00	0.0	SSW
5-Jan-2023	03:00	0.0	SSW
5-Jan-2023	05:00	0.0	WSW
5-Jan-2023	06:00	0.0	SW
5-Jan-2023	07:00	0.0	SW
5-Jan-2023	07:00	0.0	WSW
5-Jan-2023	08:00	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
	13:00	0.4	SSW
5-Jan-2023			SSW
5-Jan-2023	15:00	0.0	
5-Jan-2023	16:00	0.0	SSW
5-Jan-2023	17:00	0.0	NE
5-Jan-2023	18:00	0.0	
5-Jan-2023	19:00	0.0	W

Date	Time	Wind Speed m/s	Direction
5-Jan-2023	20:00	1.3	WSW
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	00:00	0.0	
6-Jan-2023	01:00	0.0	
6-Jan-2023	02:00	0.0	
6-Jan-2023	03:00	0.4	W
6-Jan-2023	03:00	0.4	WSW
6-Jan-2023	05:00	0.0	
6-Jan-2023	06:00 07:00	0.0	SSW
6-Jan-2023			
6-Jan-2023	08:00	0.4	SSW
6-Jan-2023	09:00	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	0.4	SSW
6-Jan-2023	15:00	0.4	SSW
6-Jan-2023	16:00	0.9	SSW
6-Jan-2023	17:00	0.4	SSE
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	00:00	0.0	SSW
7-Jan-2023	01:00	0.0	S
7-Jan-2023	02:00	0.0	SSW
7-Jan-2023	03:00	0.0	SSW
7-Jan-2023	04:00	0.0	SSW
7-Jan-2023	05:00	0.0	SSW
7-Jan-2023	06:00	0.4	SSW
7-Jan-2023	07:00	0.4	SSW
7-Jan-2023	08:00	0.4	SSW
7-Jan-2023	09:00	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	0.9	SW
7-Jan-2023	16:00	0.4	SW
7-Jan-2023	17:00	0.0	WNW
		0.0	WSW
7-Jan-2023	18:00		SW
7-Jan-2023	19:00	0.0	
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	00:00	0.4	SSW
8-Jan-2023	01:00	0.4	SSW

Date	Time	Wind Speed m/s	Direction
8-Jan-2023	02:00	0.4	SSW
8-Jan-2023	03:00	0.4	SSW
8-Jan-2023	04:00	0.4	SSW
8-Jan-2023	05:00	0.4	SSW
8-Jan-2023	06:00	0.4	SSW
8-Jan-2023	07:00	0.4	WSW
8-Jan-2023	08:00	0.4	W
8-Jan-2023	09:00	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	0.4	SW
8-Jan-2023	16:00	0.4	SSW
8-Jan-2023	17:00	0.4	SW
8-Jan-2023	18:00	0.4	SW
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	00:00	0.0	
9-Jan-2023	01:00	0.0	
9-Jan-2023	02:00	0.0	
9-Jan-2023	03:00	0.0	WSW
9-Jan-2023	04:00	0.0	WSW
9-Jan-2023	05:00	0.0	SSW
9-Jan-2023	06:00	0.4	SSW
9-Jan-2023	07:00	0.4	WSW
9-Jan-2023	08:00	0.0	SSW
9-Jan-2023	09:00	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	00:00	0.4	SSW
10-Jan-2023	01:00	0.0	WSW
10-Jan-2023	02:00	0.0	SSW
10-Jan-2023	03:00	0.0	<u> </u>
10-Jan-2023	03:00	0.0	<u> </u>
10-Jan-2023	04:00	0.0	SSW
10-Jan-2023	05:00	0.0	SSW
10-Jan-2023	07:00	0.0	SSW
10-Jaii-2023	07.00	0.0	5510

Date	Time	Wind Speed m/s	Direction
10-Jan-2023	08:00	0.0	SSW
10-Jan-2023	09:00	0.4	SSW
10-Jan-2023	10:00	0.0	SSW
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	00:00	0.0	SSW
11-Jan-2023	01:00	0.0	
11-Jan-2023	02:00	0.0	SW
11-Jan-2023	03:00	0.0	SSW
11-Jan-2023	04:00	0.9	SSW
11-Jan-2023	05:00	0.4	SSW
11-Jan-2023	06:00	0.0	SSW
11-Jan-2023	07:00	0.0	
11-Jan-2023	08:00	0.0	
11-Jan-2023	09:00	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	00:00	0.4	SSW
12-Jan-2023	01:00	0.4	SSW
12-Jan-2023	02:00	0.4	SSW
12-Jan-2023	03:00	0.9	SSW
12-Jan-2023	04:00	1.3	SW
12-Jan-2023	05:00	0.9	SSW
12-Jan-2023	06:00	1.3	SSW
12-Jan-2023	07:00	1.3	SSW
12-Jan-2023	08:00	1.3	SW
12-Jan-2023	09:00	0.9	SW
12-Jan-2023	10:00	0.9	SSW
12-Jan-2023	11:00	0.9	WSW
12-Jan-2023	12:00	0.9	WSW
12-Jan-2023	13:00	0.9	WSW

Date	Time	Wind Speed m/s	Direction
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
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	00:00	0.4	SW
13-Jan-2023	01:00	0.9	WSW
13-Jan-2023	02:00	0.0	WSW
13-Jan-2023	03:00	0.0	WSW
13-Jan-2023	04:00	0.0	SSW
13-Jan-2023	05:00	0.4	SSW
13-Jan-2023	06:00	0.0	WSW
13-Jan-2023	07:00	0.0	WSW
13-Jan-2023	08:00	0.4	WSW
13-Jan-2023	09:00	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	00:00	0.0	
14-Jan-2023	01:00	0.0	NE
14-Jan-2023	02:00	0.0	
14-Jan-2023	03:00	0.0	
14-Jan-2023	04:00	0.0	
14-Jan-2023	05:00	0.0	
14-Jan-2023	06:00	0.0	WNW
14-Jan-2023	07:00	0.0	
14-Jan-2023	08:00	0.0	WSW
14-Jan-2023	09:00	0.0	WSW
14-Jan-2023	10:00	0.0	WSW
14-Jan-2023	11:00	0.0	
14-Jan-2023	12:00	0.4	NE
14-Jan-2023	13:00	0.9	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	

Date	Time	Wind Speed m/s	Direction
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	00:00	0.0	
15-Jan-2023	01:00	0.0	WNW
15-Jan-2023	02:00	0.0	W
15-Jan-2023	03:00	0.0	W
15-Jan-2023	04:00	0.0	
15-Jan-2023	05:00	0.0	
15-Jan-2023	06:00	0.0	
15-Jan-2023	07:00	0.0	SSE
15-Jan-2023	08:00	0.0	SSW
15-Jan-2023	09:00	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	0.4	SSW
15-Jan-2023	22:00	0.4	SSW
15-Jan-2023	23:00	0.4	SSW
16-Jan-2023	00:00	0.4	SSW
16-Jan-2023	01:00	0.4	SSW
16-Jan-2023	02:00	0.4	SSW
16-Jan-2023	03:00	0.4	SSW
16-Jan-2023	04:00	0.4	SSW
16-Jan-2023	05:00	0.4	SSW
16-Jan-2023	06:00	0.4	SSW
16-Jan-2023	07:00	0.4	SSW
16-Jan-2023	08:00	0.4	SSW
16-Jan-2023	09:00	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	0.4	SSE
16-Jan-2023	14:00	0.4	SSW
16-Jan-2023	15:00	0.0	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	0.4	SSW
16-Jan-2023	21:00	0.0	SSE
16-Jan-2023	22:00	0.0	SSW
16-Jan-2023	23:00	0.4	SSW
17-Jan-2023	00:00	0.4	SSW
17-Jan-2023	01:00	0.4	SSE

Date	Time	Wind Speed m/s	Direction
17-Jan-2023	02:00	0.4	SSW
17-Jan-2023	03:00	0.0	SSW
17-Jan-2023	04:00	0.4	SSW
17-Jan-2023	05:00	0.0	SSE
17-Jan-2023	06:00	0.0	SSW
17-Jan-2023	07:00	0.0	SSW
17-Jan-2023	08:00	0.4	SSW
17-Jan-2023	09:00	0.0	SSE
17-Jan-2023	10:00	0.0	SSW
17-Jan-2023	11:00	0.0	SSE
17-Jan-2023	12:00	0.4	SSE
17-Jan-2023	13:00	0.4	SSE
17-Jan-2023	14:00	0.4	SSE
	15:00		SSE
17-Jan-2023		0.0	SSE
17-Jan-2023	16:00	0.0	
17-Jan-2023	17:00	0.0	SSE
17-Jan-2023	18:00	0.0	SSE
17-Jan-2023	19:00	0.0	S
17-Jan-2023	20:00	0.0	SSE
17-Jan-2023	21:00	0.0	SSE
17-Jan-2023	22:00	0.0	SSE
17-Jan-2023	23:00	0.0	S
18-Jan-2023	00:00	0.0	SSE
18-Jan-2023	01:00	0.0	SSE
18-Jan-2023	02:00	0.0	SSE
18-Jan-2023	03:00	0.4	SSW
18-Jan-2023	04:00	0.4	SSE
18-Jan-2023	05:00	0.4	SSW
18-Jan-2023	06:00	0.4	SSW
18-Jan-2023	07:00	0.4	SSW
18-Jan-2023	08:00	0.4	SSW
18-Jan-2023	09:00	0.4	SSW
18-Jan-2023	10:00	0.4	SSE
18-Jan-2023	11:00	0.4	SSE
18-Jan-2023	12:00	0.4	SSE
18-Jan-2023	13:00	0.4	SSE
18-Jan-2023	14:00	0.0	SSE
18-Jan-2023	15:00	0.0	SSW
18-Jan-2023	16:00	0.0	SSW
	17:00	0.0	SSW
18-Jan-2023			SSW
18-Jan-2023	18:00	0.0	
18-Jan-2023	19:00	0.0	SSE
18-Jan-2023	20:00	0.0	S
18-Jan-2023	21:00	0.0	S
18-Jan-2023	22:00	0.0	
18-Jan-2023	23:00	0.0	SSW
19-Jan-2023	00:00	0.0	
19-Jan-2023	01:00	0.0	
19-Jan-2023	02:00	0.0	
19-Jan-2023	03:00	0.0	SW
19-Jan-2023	04:00	0.0	
19-Jan-2023	05:00	0.0	
19-Jan-2023	06:00	0.0	
19-Jan-2023	07:00	0.0	

Date	Time	Wind Speed m/s	Direction
19-Jan-2023	08:00	0.0	
19-Jan-2023	09:00	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	14:00	0.0	SSE
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	00:00	0.0	
20-Jan-2023 20-Jan-2023	01:00	0.0	
	01:00	0.0	
20-Jan-2023 20-Jan-2023	02:00	0.0	
	03:00		
20-Jan-2023		0.0	SSW
20-Jan-2023	05:00	0.4	SSW
20-Jan-2023	06:00	0.4	SSW
20-Jan-2023	07:00	0.4	SSW
20-Jan-2023	08:00	0.4	SSW
20-Jan-2023	09:00	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	00:00	0.0	W
21-Jan-2023	01:00	0.0	SSW
21-Jan-2023	02:00	0.0	SSW
21-Jan-2023	03:00	0.0	
21-Jan-2023	04:00	0.0	SW
21-Jan-2023	05:00	0.0	SW
21-Jan-2023	06:00	0.0	SSW
21-Jan-2023	07:00	0.0	SSW
21-Jan-2023	08:00	0.0	SSW
21-Jan-2023	09:00	0.0	SSW
21-Jan-2023	10:00	0.4	SSW
21-Jan-2023	11:00	0.4	SW
21-Jan-2023	12:00	0.4	SSW
21-Jan-2023	13:00	0.9	SSW

Date	Time	Wind Speed m/s	Direction
21-Jan-2023	14:00	0.9	SSW
21-Jan-2023	15:00	0.4	SSW
21-Jan-2023	16:00	0.4	SW
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
21-Jan-2023	22:00	0.0	SSW
21-Jan-2023	23:00	0.4	SSW
22-Jan-2023	00:00	0.0	SSW
22-Jan-2023	01:00	0.0	SSW
22-Jan-2023	02:00	0.4	WSW
22-Jan-2023	03:00	0.0	SW
22-Jan-2023	04:00	0.0	SW
22-Jan-2023	05:00	0.0	WSW
22-Jan-2023	06:00	0.0	SSW
22-Jan-2023	07:00	0.0	SSW
22-Jan-2023	08:00	0.0	WSW
22-Jan-2023	09:00	0.0	WSW
22-Jan-2023	10:00	0.0	SSW
22-Jan-2023	11:00	0.0	SSE
22-Jan-2023	12:00	0.0	SSW
22-Jan-2023	13:00	0.0	SSE
22-Jan-2023	14:00	0.0	SSE
22-Jan-2023	15:00	0.0	SSE
22-Jan-2023	16:00	0.4	WSW
22-Jan-2023	17:00	0.4	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	00:00	0.0	
23-Jan-2023	01:00	0.4	WSW
23-Jan-2023	02:00	0.0	SW
23-Jan-2023	03:00	0.0	
23-Jan-2023	03:00	0.0	
23-Jan-2023	05:00	0.0	
23-Jan-2023	06:00	0.0	SW
23-Jan-2023	07:00	0.0	
23-Jan-2023	07:00	0.0	
23-Jan-2023	09:00	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	0.0	NE
23-Jan-2023 23-Jan-2023	13:00	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 0:00 0.0 W 24-Jan-2023 0:00 0.0 WSW 24-Jan-2023 0:00 0.4 SSW 24-Jan-2023 03:00 0.9 SSW 24-Jan-2023 04:00 0.9 SSW 24-Jan-2023 06:00 0.4 SSW 24-Jan-2023 06:00 0.4 SSW 24-Jan-2023 07:00 0.4 SSW 24-Jan-2023 07:00 0.4 SSW 24-Jan-2023 07:00 0.4 SSW 24-Jan-2023 10:00 0.4 SSE 24-Jan-2023 10:00 0.4 SSW 24-Jan-2023 10:00 0.4 SSW 24-Jan-2023 15:00 0.4 SSW 24-Jan-2023 16:00 0.9 SSW	tion
23-Jan-2023 22:00 0.0 W 23-Jan-2023 00:00 0.0 W 24-Jan-2023 00:00 0.0 WSW 24-Jan-2023 01:00 0.4 SSW 24-Jan-2023 02:00 0.4 SSW 24-Jan-2023 03:00 0.9 SSW 24-Jan-2023 06:00 0.4 SSW 24-Jan-2023 06:00 0.4 SSW 24-Jan-2023 06:00 0.4 SSW 24-Jan-2023 07:00 0.4 SSW 24-Jan-2023 07:00 0.4 SSE 24-Jan-2023 10:00 0.4 SSE 24-Jan-2023 10:00 0.4 SSE 24-Jan-2023 10:00 0.4 SSW 24-Jan-2023 12:00 0.9 SSW 24-Jan-2023 15:00 0.4 SSW 24-Jan-2023 17:00 0.9 SSW 24-Jan-2023 19:00 0.4 SSW	W
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24-Jan-2023 00:00 0.0 WSM 24-Jan-2023 01:00 0.4 SSW 24-Jan-2023 02:00 0.4 SSW 24-Jan-2023 03:00 0.9 SSW 24-Jan-2023 06:00 0.4 SSW 24-Jan-2023 06:00 0.4 SSW 24-Jan-2023 06:00 0.4 SSW 24-Jan-2023 07:00 0.4 SSW 24-Jan-2023 07:00 0.4 SSW 24-Jan-2023 09:00 0.4 SSE 24-Jan-2023 10:00 0.4 SSE 24-Jan-2023 10:00 0.4 SSE 24-Jan-2023 10:00 0.4 SSW 24-Jan-2023 12:00 0.9 SSW 24-Jan-2023 16:00 0.9 SSW 24-Jan-2023 16:00 0.9 SSW 24-Jan-2023 17:00 0.9 SSW 24-Jan-2023 20:00 0.4 SSW	/
24-Jan-2023 00:00 0.0 WSM 24-Jan-2023 01:00 0.4 SSW 24-Jan-2023 02:00 0.4 SSW 24-Jan-2023 03:00 0.9 SSW 24-Jan-2023 06:00 0.4 SSW 24-Jan-2023 06:00 0.4 SSW 24-Jan-2023 06:00 0.4 SSW 24-Jan-2023 07:00 0.4 SSW 24-Jan-2023 07:00 0.4 SSW 24-Jan-2023 09:00 0.4 SSE 24-Jan-2023 10:00 0.4 SSE 24-Jan-2023 10:00 0.4 SSE 24-Jan-2023 10:00 0.4 SSW 24-Jan-2023 12:00 0.9 SSW 24-Jan-2023 16:00 0.9 SSW 24-Jan-2023 16:00 0.9 SSW 24-Jan-2023 17:00 0.9 SSW 24-Jan-2023 20:00 0.4 SSW	/
24-Jan-2023 01:00 0.4 SSW 24-Jan-2023 02:00 0.4 SSW 24-Jan-2023 03:00 0.9 SSW 24-Jan-2023 04:00 0.9 SSW 24-Jan-2023 06:00 0.4 SSW 24-Jan-2023 06:00 0.4 SSW 24-Jan-2023 07:00 0.4 SSW 24-Jan-2023 07:00 0.4 SSW 24-Jan-2023 07:00 0.4 SSE 24-Jan-2023 10:00 0.4 SSE 24-Jan-2023 10:00 0.4 SSE 24-Jan-2023 10:00 0.4 SSW 24-Jan-2023 12:00 0.9 SSW 24-Jan-2023 14:00 0.9 SSW 24-Jan-2023 16:00 0.9 SSW 24-Jan-2023 18:00 0.9 SSW 24-Jan-2023 21:00 0.4 SSW 24-Jan-2023 21:00 0.4 SSW	
24-Jan-2023 02:00 0.4 SSW 24-Jan-2023 03:00 0.9 SSW 24-Jan-2023 04:00 0.9 SSW 24-Jan-2023 05:00 0.4 SSW 24-Jan-2023 06:00 0.4 SSW 24-Jan-2023 06:00 0.4 SSW 24-Jan-2023 08:00 0.4 SSW 24-Jan-2023 09:00 0.4 SSE 24-Jan-2023 10:00 0.4 SSW 24-Jan-2023 12:00 0.9 SSW 24-Jan-2023 12:00 0.9 SSW 24-Jan-2023 15:00 0.4 SSW 24-Jan-2023 16:00 0.9 SSW 24-Jan-2023 16:00 0.9 SSW 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 20:00 0.4 SSW	
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24-Jan-2023 05:00 0.4 SSW 24-Jan-2023 06:00 0.4 SSW 24-Jan-2023 07:00 0.4 SSW 24-Jan-2023 08:00 0.4 SS 24-Jan-2023 09:00 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 14:00 0.9 SSW 24-Jan-2023 16:00 0.9 SSW 24-Jan-2023 16:00 0.9 SSW 24-Jan-2023 16:00 0.9 SSW 24-Jan-2023 17:00 0.9 SSW 24-Jan-2023 19:00 0.4 SSW 24-Jan-2023 20:00 0.4 SSW 24-Jan-2023 20:00 0.4 SSW 24-Jan-2023 20:00 0.4 SSW 24-Jan-2023 00:00 0.4 SSW	
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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 00:00 0.0 SSW	
26-Jan-2023 01:00 0.0 SSW	

Appendix I - Wind Data

Date	Time	Wind Speed m/s	Direction
26-Jan-2023	02:00	0.0	SSW
26-Jan-2023	03:00	0.0	
26-Jan-2023	04:00	0.0	
26-Jan-2023	05:00	0.0	SSW
26-Jan-2023	06:00	0.0	SSW
26-Jan-2023	07:00	0.0	SSW
26-Jan-2023	08:00	0.0	SW
26-Jan-2023	09:00	0.0	SSW
26-Jan-2023	10:00	0.4	SSW
26-Jan-2023	11:00	0.4	SSW
			SSE
26-Jan-2023	12:00	0.4	
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
26-Jan-2023	23:00	0.0	WSW
27-Jan-2023	00:00	0.0	
27-Jan-2023	01:00	0.0	
27-Jan-2023	02:00	0.0	
27-Jan-2023	03:00	0.0	WSW
27-Jan-2023	04:00	0.0	SSE
27-Jan-2023	05:00	0.9	SSW
27-Jan-2023	06:00	0.9	SSW
27-Jan-2023	07:00	0.4	SSW
27-Jan-2023	08:00	0.4	SSW
27-Jan-2023	09:00	0.4	SSE
27-Jan-2023	10:00	0.4	SSE
27-Jan-2023	11:00	0.4	SSW
	12:00	0.4	SSW
27-Jan-2023			
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	00:00	0.4	SSW
28-Jan-2023	01:00	0.4	SSW
28-Jan-2023	02:00	0.4	SSW
28-Jan-2023	03:00	0.4	SSE
28-Jan-2023	04:00	0.4	S
28-Jan-2023	05:00	0.4	SSE
28-Jan-2023	06:00	0.4	SSW
20-0411-2020			

Appendix I - Wind Data

Date	Time	Wind Speed m/s	Direction
28-Jan-2023	08:00	0.4	SSW
28-Jan-2023	09:00	0.4	SSW
28-Jan-2023	10:00	0.9	S
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
28-Jan-2023	19:00	0.0	WSW
28-Jan-2023	20:00	0.0	WSW
			SW
28-Jan-2023	21:00	0.0	
28-Jan-2023	22:00	0.0	SW
28-Jan-2023	23:00	0.0	SW
29-Jan-2023	00:00	0.4	WSW
29-Jan-2023	01:00	0.0	SSW
29-Jan-2023	02:00	0.4	SSW
29-Jan-2023	03:00	0.4	SSW
29-Jan-2023	04:00	0.4	SSW
29-Jan-2023	05:00	0.4	SSW
29-Jan-2023	06:00	0.0	SSW
29-Jan-2023	07:00	0.4	SSW
29-Jan-2023	08:00	0.0	SSW
29-Jan-2023	09:00	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	<u> </u>
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	00:00	0.0	
	01:00		
30-Jan-2023		0.0	
30-Jan-2023	02:00	0.0	WSW
30-Jan-2023	03:00	0.0	
30-Jan-2023	04:00	0.0	
30-Jan-2023	05:00	0.0	
30-Jan-2023	06:00	0.0	
30-Jan-2023	07:00	0.0	
30-Jan-2023	08:00	0.0	
30-Jan-2023	09:00	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

Appendix I - Wind Data

Date	Time	Wind Speed m/s	Direction
30-Jan-2023	14:00	0.4	WSW
30-Jan-2023	15:00	0.4	SW
30-Jan-2023	16:00	0.4	WSW
30-Jan-2023	17:00	0.0	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	00:00	0.0	SSW
31-Jan-2023	01:00	0.0	SSW
31-Jan-2023	02:00	0.4	SSW
31-Jan-2023	03:00	0.0	SW
31-Jan-2023	04:00	0.0	SSW
31-Jan-2023	05:00	0.9	SW
31-Jan-2023	06:00	0.4	SSW
31-Jan-2023	07:00	0.4	SW
31-Jan-2023	08:00	0.4	SW
31-Jan-2023	09:00	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 J EVENT ACTION PLANS

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

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

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

Event / Action Plan for Construction Noise

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

	Action					
Event	ET	IEC	ER	Contractor		
Action level being exceeded by one sampling day	 Inform IEC, Contractor and ER; Check monitoring data, all plant, equipment and Contractor's working methods; and Discuss remedial measures with IEC and Contractor and ER. 	 Discuss with ET, ER and Contractor on the implemented mitigation measures; Review proposals on remedial measures submitted by Contractor and advise the ER accordingly; and Review and advise the ET and ER on the effectiveness of the implemented mitigation measures. 	 Discuss with IEC, ET and Contractor on the implemented mitigation measures; Make agreement on the remedial measures to be implemented; Supervise the implementation of agreed remedial measures. 	 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. 		
Action level being exceeded by two or more consecutive sampling days	 Repeat in-situ measurement on next day of exceedance to confirm findings; Inform IEC, contractor and ER; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss remedial measures with IEC, contractor and ER Ensure remedial measures are implemented 	 Discuss with ET, Contractor and ER on the implemented mitigation measures; Review the proposed remedial measures submitted by Contractor and advise the ER accordingly; and Review and advise the ET and ER on the effectiveness of the implemented mitigation measures. 	 Discuss with ET, IEC and Contractor on the proposed mitigation measures; Make agreement on the remedial measures to be implemented; and Discuss with ET, IEC and Contractor on the effectiveness of the implemented remedial 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 consider changes of working methods; Discuss with ET, IEC and ER and submit proposal of remedial measures to ER and IEC within 3 working days of notification; and Implement the agreed mitigation measures. 		
Limit level being exceeded by one sampling day	 Repeat measurement on next day of exceedance to confirm findings; Inform IEC, contractor and ER; 	1. Discuss with ET, Contractor and ER on the implemented mitigation measures;	 Discuss with ET, IEC and Contractor on the implemented remedial measures; 	 Identify source(s) of impact; 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 	 Review the proposed remedial measures submitted by Contractor and advise the ER accordingly; and Review and advise the ET and ER on the effectiveness of the implemented mitigation measures. 	 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	 are implemented 1. Inform IEC, contractor and ER; 2. Check monitoring data, all plant, equipment and Contractor's working methods; 3. Discuss mitigation measures with IEC, ER and Contractor; and 4. Ensure mitigation measures are implemented; and 5. Increase the monitoring frequency to daily until no exceedance of Limit Level for two consecutive days 	 Discuss with ET, Contractor and ER on the implemented mitigation measures; Review the proposed remedial measures submitted by Contractor and advise the ER accordingly; and Review and advise the ET and ER on the effectiveness of the implemented mitigation measures. 	 Discuss with ET, IEC and Contractor on the implemented remedial measures; Request Contractor to critically review the working methods; Make agreement on the remedial measures to be implemented; Discuss with ET and IEC on the effectiveness of the implemented mitigation measures; and Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the dredging activities until no exceedance of Limit level. 	 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. 		

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

Event / Action Plan for Landscape and Visual during construction phase

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

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

APPENDIX K SUMMARY OF EXCEEDANCE

Appendix K Exceedance Report

(A) Exceedance Report for Air Quality

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

(B) Exceedance Report for Construction Noise

Environmental Monitoring	Parameter	No. of non-project related ExceedanceNo. of Exce related to Construct 		to the uction s of the	
		Action Level	Limit Level	Action Level	Limit Level
Noise	L _{eq} (30 min.) dB(A)	0	0	0	0

(C) Exceedance Report for Water Quality

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

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

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

Weekly Site Inspection Record Summary

Checklist Reference Number	230104
Date	4 January 2023 (Wednesday)
Time	14:00 - 15:30

D.C.N.	New Counciliance	Related
Ref. No.	Non-Compliance None identified	Item No.
-		Related
Ref. No.	Remarks/Observations	Item No.
Kel. Ivo.	B. Air Quality	Item Ivo.
	No environmental deficiency was identified during site inspection.	
	• No environmental denotency was identified during site inspection.	
	C. Noise	
	No environmental deficiency was identified during site inspection.	
	D. Water Quality	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Land Contamination	
	No environmental deficiency was identified during site inspection.	
	G. Landscape and Visual	
	No environmental deficiency was identified during site inspection.	
	H. Ecology	
230104-R01	• The height of the dull green fence / visual barrier along the works of meander bridge should be	110
	reviewed to ensure the recommendation mitigation measures in the MS are comply with.	H2
	I. Fisheries	
	No environmental deficiency was identified during site inspection.	
	J. Permits/Licences	
	No environmental deficiency was identified during site inspection.	
	K. Others	
	Follow-up on previous audit section (Ref. No.: 221228), follow-up action was required for item 221228-R01, which was remarked as 230104-R01.	

	Name	Signature	Date
Recorded by	Adrian Lam	AS	6 January 2023
Checked by	Dr. Priscilla Choy	WI	6 January 2023

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

Weekly Site Inspection Record Summary

Checklist Reference Number	230111	
Date	11 January 2023 (Wednesday)	
Time	09:30 - 10:45	

Ref. No.	Non Compliance	Related
Kel. No.	Non-Compliance None identified	Item No
-	None identified	- Dalatad
Ref. No.	Remarks/Observations	Related
Kel . 140.	B. Air Quality	Item No
	 No environmental deficiency was identified during site inspection. 	
	• No environmental deficiency was identified during site inspection.	
	C. Noise	
	No environmental deficiency was identified during site inspection.	
	D. Water Quality	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Land Contamination	
	No environmental deficiency was identified during site inspection.	
	G. Landscape and Visual	
	No environmental deficiency was identified during site inspection.	
	H. Ecology	
	No environmental deficiency was identified during site inspection.	
	I. Fisheries	-
	No environmental deficiency was identified during site inspection.	
	J. Permits/Licences	
	No environmental deficiency was identified during site inspection.	
	K. Others	
	Follow-up on previous audit section (Ref. No.: 230104), all environmental deficiency was rectified/improved by the contractor.	

	Name	Signature	Date
Recorded by	Adrian Lam	A	12 January 2023
Checked by	Dr. Priscilla Choy	WF	12 January 2023

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

Weekly Site Inspection Record Summary

Checklist Reference Number	230118
Date	18 January 2023 (Wednesday)
Time	09:30 - 10:15

Ref. No.	Non-Compliance	Related Item No.
-	None identified	
		Related
Ref. No.	Remarks/Observations	Item No.
	B. Air Quality	
	No environmental deficiency was identified during site inspection.	
	C. Noise	
	No environmental deficiency was identified during site inspection.	
	 <i>D. Water Quality</i> No environmental deficiency was identified during site inspection. 	
	- The environmental denoted by the recentined during site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Land Contamination	
	No environmental deficiency was identified during site inspection.	
	G. Landscape and Visual	
	No environmental deficiency was identified during site inspection.	
	H. Ecology	
	No environmental deficiency was identified during site inspection.	
	I. Fisheries	
	No environmental deficiency was identified during site inspection.	
	J. Permits/Licences	
	No environmental deficiency was identified during site inspection.	
	K. Others	
	Follow-up on previous audit section (Ref. No.: 230111), no major environmental deficiency was identified during site inspection.	

	Name	Signature	Date
Recorded by	Ivy Tam	Lun	18 January 2023
Checked by	Dr. Priscilla Choy	NF	18 January 2023

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

Weekly Site Inspection Record Summary

Checklist Reference Number	230126
Date	26 January 2023 (Thursday)
Time	10:45 - 11:10

Ref. No.	Non-Compliance	Related Item No.
-	None identified	
		Related
Ref. No.	Remarks/Observations	Item No.
	B. Air Quality	
	No environmental deficiency was identified during site inspection.	
	C. Noise	
	No environmental deficiency was identified during site inspection.	
	D. Water Quality	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Land Contamination	
	No environmental deficiency was identified during site inspection.	
	G. Landscape and Visual	
	No environmental deficiency was identified during site inspection.	
	H. Ecology	
	No environmental deficiency was identified during site inspection.	
	I. Fisheries	
	No environmental deficiency was identified during site inspection.	
	J. Permits/Licences	
	No environmental deficiency was identified during site inspection.	
	K. Others	
	Follow-up on previous audit section (Ref. No.: 230118), no major environmental deficiency was identified during site inspection.	

Name		Signature	Date
Recorded by	Ivy Tam	Luy	26 January 2023
Checked by	Dr. Priscilla Choy	WF	26 January 2023

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

Weekly Site Inspection Record Summary

Checklist Reference Number	230104	
Date	4 January 2023 (Wednesday)	
Time	09:30 - 11:00	

D 4 M		Related
Ref. No.	Non-Compliance	Item No
-	None identified	-
DAN		Related
Ref. No.	Remarks/Observations	Item No
	B. Air Quality	
	No environmental deficiency was identified during site inspection.	
	C. Noise	
	No environmental deficiency was identified during site inspection.	
	D. Water Quality	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	• No environmental deficiency was identified during site inspection.	
	F. Land Contamination	
	No environmental deficiency was identified during site inspection.	
	G. Landscape and Visual	
	No environmental deficiency was identified during site inspection.	· · · · · ·
	H. Ecology	
	No environmental deficiency was identified during site inspection.	
	I. Fisheries	
	No environmental deficiency was identified during site inspection.	
	J. Permits/Licences	
	No environmental deficiency was identified during site inspection.	
	K. Others	
	• Follow-up on previous audit section (Ref. No.: 221228), all environmental deficiency had been rectified/ improved by Contractor.	

	Name	Signature	Date
Recorded by	Adrian Lam	A	6 January 2023
Checked by	Dr. Priscilla Choy	NI	6 January 2023

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

Weekly Site Inspection Record Summary

Checklist Reference Number	230112
Date	12 January 2023 (Thursday)
Time	09:30 - 11:00

DCN		Related
Ref. No.	Non-Compliance None identified	Item No.
- Dof No		- Related
Ref. No.	Remarks/Observations B. Air Quality	Item No.
	 No environmental deficiency was identified during site inspection. 	
	• No environmental denerency was identified during site inspection.	
	C. Noise	
	No environmental deficiency was identified during site inspection.	
	D. Water Quality	
230112-R02	• Provide sand bag bund or similar measures to enclose the storage area for excavated materials at CS1 and RW9.	D4
230112-R03	• The tarpaulin sheet shall be regularly inspected and maintained to ensure the exposed	D9
	slopes are covered completely.	
220112 D01	E. Waste / Chemical Management	E12
230112-R01 230112-R04	 Clear the accumulated sediment at the drip tray for the air compressor at TAR1. Clear the construction wastes / materials at open drainage channel at RW9. 	E13 E10
230112-K04	• Clear the construction wastes / materials at open dramage channel at K w 9.	E10
	F. Land Contamination	
	No environmental deficiency was identified during site inspection.	
	G. Landscape and Visual	
	No environmental deficiency was identified during site inspection.	
	H. Ecology	
	No environmental deficiency was identified during site inspection.	
	I. Fisheries	
	No environmental deficiency was identified during site inspection.	
	J. Permits/Licences	
	No environmental deficiency was identified during site inspection.	
	K. Others	
	• Follow-up on previous audit section (Ref. No.: 230104), no major environmental deficiency was identified during site inspection.	

	Name	Signature	Date
Recorded by	Ivy Tam	Tun	12 January 2023
Checked by	Dr. Priscilla Choy	WF	12 January 2023

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

Weekly Site Inspection Record Summary

Checklist Reference Number	230118
Date	18 January 2023 (Wednesday)
Time	14:00 - 15:15

DAN		Related
Ref. No.	Non-Compliance	Item No.
-	None identified	-
DOM		Related
Ref. No.	Remarks/Observations	Item No.
	B. Air Quality	
	No environmental deficiency was identified during site inspection.	
	C. Noise	
	No environmental deficiency was identified during site inspection.	
	D. Water Quality	
230118-R01	• Provide sand bag bund or similar measures to enclose the storage area for excavated materials at CS1 and RW9.	D4
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Land Contamination	
	No environmental deficiency was identified during site inspection.	
	G. Landscape and Visual	
	No environmental deficiency was identified during site inspection.	
	H. Ecology	
	No environmental deficiency was identified during site inspection.	
	I. Fisheries	
	 No environmental deficiency was identified during site inspection. 	
	J. Permits/Licences	
	 No environmental deficiency was identified during site inspection. 	
	K. Otheres	
	K. Others	
	• Follow-up on previous audit section (Ref. No.: 230112), follow-up action was required for item 230112-R02, which was remarked as 230118-R01.	

	Name	Signature	Date
Recorded by	Ivy Tam	Try	18 January 2023
Checked by	Dr. Priscilla Choy	WF	18 January 2023
		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

Weekly Site Inspection Record Summary

F	
Checklist Reference Number	230126
Date	26 January 2023 (Thursday)
Time	10:00 - 10:40

Ref. No.	Non-Compliance	Related Item No
-	None identified	-
		Related
Ref. No.	Remarks/Observations	Item No
	B. Air Quality	
	No environmental deficiency was identified during site inspection.	
	C. Noise	
	No environmental deficiency was identified during site inspection.	
	D. Water Quality	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Land Contamination	
	No environmental deficiency was identified during site inspection.	
	G. Landscape and Visual	
	No environmental deficiency was identified during site inspection.	
	H. Ecology	
	No environmental deficiency was identified during site inspection.	
	I. Fisheries	
	No environmental deficiency was identified during site inspection.	
	J. Permits/Licences	
	No environmental deficiency was identified during site inspection.	
	K. Others	
	• Follow-up on previous audit section (Ref. No.: 230118), follow-up action was required for item 230118-R01, which was remarked as 230126-R01.	

	Name	Signature	Date
Recorded by	Ivy Tam	Lun	26 January 2023
Checked by	Dr. Priscilla Choy	WF	26 January 2023
		1	

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

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

Weekly Site Inspection Record Summa	ry
Inspection Information	
Checklist Reference Number	230104
Date	4 January 2023 (Wednesday)
Time	13:30 - 14:00

DCN		Related
Ref. No.	Non-Compliance None identified	Item No
-	None identified	- Dalatar
Ref. No.	Remarks/Observations	Related
Rel . 110.	B. Air Quality	
	 No environmental deficiency was identified during site inspection. 	
	C. Noise	
	No environmental deficiency was identified during site inspection.	
	D. Water Quality	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Land Contamination	
	No environmental deficiency was identified during site inspection.	
	G. Landscape and Visual	
	No environmental deficiency was identified during site inspection.	
	H. Ecology	
	No environmental deficiency was identified during site inspection.	
	I. Fisheries	
	No environmental deficiency was identified during site inspection.	
	J. Permits/Licences	
	No environmental deficiency was identified during site inspection.	
	K. Others	
	• Follow-up on previous audit section (Ref. No.: 221228), all environmental deficiency was rectified/improved by the contractor.	

Name	Signature	Date
Adrian Lam	A	5 January 2023
Dr. Priscilla Choy	ht	5 January 2023
	Adrian Lam	Adrian Lam

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

Weekly Site Inspection Record Summa	ry
Inspection Information	
Checklist Reference Number	230109
Date	9 January 2023 (Monday)
Time	14:00 - 14:45

DCN		Related
Ref. No.	Non-Compliance	Item No
-	None identified	-
DAN		Related
Ref. No.	Remarks/Observations	Item No
	B. Air Quality	
	No environmental deficiency was identified during site inspection.	
	C. Noise	
	No environmental deficiency was identified during site inspection.	
	D. Water Quality	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	• No environmental deficiency was identified during site inspection.	
	F. Land Contamination	
	No environmental deficiency was identified during site inspection.	
	G. Landscape and Visual	
	No environmental deficiency was identified during site inspection.	
	H. Ecology	
	No environmental deficiency was identified during site inspection.	
	I. Fisheries	
	No environmental deficiency was identified during site inspection.	
	J. Permits/Licences	
	No environmental deficiency was identified during site inspection.	
	K. Others	
	• Follow-up on previous audit section (Ref. No.: 230104), no major environmental deficiency was identified during site inspection.	

	Name	Signature	Date
Recorded by	Adrian Lam	A	12 January 2023
Checked by	Dr. Priscilla Choy	h T	12 January 2023

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

Weekly Site Inspection Record Sur	nmary	
Inspection Information		
Checklist Reference Number	230116	
Date	16 January 2023 (Monday)	
Time	09:30 - 10:00	

		Related
Ref. No.	Non-Compliance	Item No
-	None identified	-
DOM		Related
Ref. No.	Remarks/Observations	Item No
	B. Air Quality	
	No environmental deficiency was identified during site inspection.	
	C. Noise	
	No environmental deficiency was identified during site inspection.	
	D. Water Quality	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Land Contamination	
	No environmental deficiency was identified during site inspection.	
	G. Landscape and Visual	
	No environmental deficiency was identified during site inspection.	2
	H. Ecology	
	No environmental deficiency was identified during site inspection.	
	I. Fisheries	
	No environmental deficiency was identified during site inspection.	
	J. Permits/Licences	
	No environmental deficiency was identified during site inspection.	
	K. Others	
	• Follow-up on previous audit section (Ref. No.: 230109), no major environmental deficiency was identified during site inspection.	

	16 January 2023
WI	16 January 2023
	S-F

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

Weekly Site Inspection Record Summary		
Inspection Information		
Checklist Reference Number	230126	
Date	26 January 2023 (Thursday)	
Time	11:15 – 11:35	

		Related
Ref. No.	Non-Compliance	Item No.
-	None identified	-
		Related
Ref. No.	Remarks/Observations	Item No.
	B. Air Quality	
	No environmental deficiency was identified during site inspection.	
	C. Noise	
	No environmental deficiency was identified during site inspection.	
	D. Water Quality	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Land Contamination	
	No environmental deficiency was identified during site inspection.	
	G. Landscape and Visual	
	No environmental deficiency was identified during site inspection.	
	H. Ecology	
	No environmental deficiency was identified during site inspection.	
	I. Fisheries	
	No environmental deficiency was identified during site inspection.	
	J. Permits/Licences	
	No environmental deficiency was identified during site inspection.	
	K. Others	
	• Follow-up on previous audit section (Ref. No.: 230116), no major environmental	
	deficiency was identified during site inspection.	

	Name		Date
Recorded by	Ivy Tam	Lun	26 January 2023
Checked by	Dr. Priscilla Choy	WF	26 January 2023

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

Weekly Site Inspection Record Summary				
Inspection Information				
Checklist Reference Number	230			
Date	30			

Checklist Reference Number	230130
Date	30 January 2023 (Monday)
Time	14:00 - 15:00

		Related
Ref. No.	Non-Compliance	Item N
-	None identified	-
		Relate
Ref. No.	Remarks/Observations	Item N
	B. Air Quality	
	No environmental deficiency was identified during site inspection.	
	C. Noise	
	No environmental deficiency was identified during site inspection.	
	D. Water Quality	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Land Contamination	
	No environmental deficiency was identified during site inspection.	
	G. Landscape and Visual	
	No environmental deficiency was identified during site inspection.	
	H. Ecology	
	No environmental deficiency was identified during site inspection.	
	I. Fisheries	
	No environmental deficiency was identified during site inspection.	
	J. Permits/Licences	
	No environmental deficiency was identified during site inspection.	
	K. Others	
	• Follow-up on previous audit section (Ref. No.: 230126), no major environmental	
	deficiency was identified during site inspection.	

4	31 January 2023
Wit	31 January 2023
	NF

APPENDIX M 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	tion Dust li	ıpact					
S3.8	D1-DP 1/DP2/ DP3	Mitigation measures in form of regular watering under a good site practice should be adopted. Watering once per hour on exposed worksites and haul road is proposed to achieve dust removal efficiency of 92.1%. While the above watering frequencies are to be followed, the extent of watering may vary depending on actual	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	Construction stage	٨
		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					٨
		provided to regulated machines					
S3.8	D2-DP	• Following dust suppression measures should also be	Minimize dust impact at	Contractor	All construction	Construction	۸
	1/DP2/	incorporated by the Contractor to control the dust nuisance throughout the construction Phase	the nearby sensitive		sites	stage	
	DP3	 Any excavated or stockpile of dusty material should be 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 	receivers				*
		 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; 					۸
		 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 					۸
		construction site should be covered entirely by impervious sheeting to ensure that the dusty material do not leak from					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?			
		 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 provided by 	Concerns to address	measures?			Λ Λ Λ Λ
		 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. 					۸
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		
Construc	tion 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; 	noise				۸
		 Plant known to emit noise strongly in one direction, where 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. 					٨
S4.8	N-CP2-	Install temporary site hoarding (approx 2.4m high) located on the site boundaries between noisy construction activities and NSRs.	Reduce the construction	Contractor	All construction	Construction	٨
	DP1/D	The conditions of the hoardings shall be properly maintained	noise levels at low-level		sites where	phase	
	P2/DP3	throughout the construction period.	zone of NSRs through		practicable		
			partial screening.				
S4.8	N-CP3-	Install movable noise barriers and full enclosure, screen the noisy plants including air compressor and generator.	Screen the noisy plant	Contractor	All construction	Construction	۸
	DP1/D		items to be used at all		sites where	phase	
	P2/DP3		construction sites		practicable		
S4.8	N-CP4-	Use of "Quiet" Plant and Working Methods	Reduce the noise levels	Contractor	All construction	Construction	۸
	DP1/D		of plant items		sites where	phase	
	P2/DP3				practicable		
S4.8	N-CP5-	Sequencing operation of construction plants where practicable.	Operate sequentially	Contractor	All construction	Construction	٨
	DP1/D		within the same work site		sites where	phase	
	P2/DP3		to reduce the		practicable		
			construction airborne				
			noise				
S4.8	N-CP6-	Setting the concrete lorry mixer at around 25m away from the existing NSRs along Ha Wan Tsuen Road and Lok Ma Chau	Reduce the noise levels	Contractor	Sections with	Construction	٨
	DP2	Road	from concrete lorry mixer		NSRs along Ha	phase	
					Wan Tsuen		
					Road and Lok		

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	۸
	DP2		from construction access		4-8 of the EIA	phase	
			road traffic		report		
S4.8	N-CP7-	Implement a noise monitoring under EM&A programme.	Monitor the construction	Contractor	Selected	Construction	۸
	DP2/N-		noise levels at the		representative	phase	
	CP6-D		selected representative		noise monitoring		
	P1/N-C		locations		station		
	P6-DP3						
Water Qua	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
		 Control Plan At the start of site establishment, perimeter cut-off drains 					
		to direct off-site water around the site should be					۸
		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.					٨
		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					٨
		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					٨
		to September). All exposed earth areas should be					
		completed and vegetated as soon as possible after					
		earthworks have been completed. If excavation of soil					
		cannot be avoided during the rainy season, or at					
		any time of year when rainstorms are likely, exposed					

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?			
		 slope surfaces should be covered by tarpaulin or other means. All drainage facilities and erosion and sediment control structures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rainstorms. Deposited silt and grit should be removed regularly and disposed of by spreading evenly over stable, vegetated areas. Measures should be taken to minimise the ingress of site drainage into excavations. If the excavation of trenches in wet periods is necessary, it should be dug and backfilled in short sections wherever practicable. Water pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities. All open stockpiles of construction materials (for example, aggregates, sand and fill material) of should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system. Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and storm runoff being directed into foul sewers. Precautions to be taken at any time of year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forecasted, and actions to be taken during or after rainstorms are summarized in Appendix A2 of 	Concerns to address	measures?			* * * ^
		ProPECC PN 1/94. Particular attention should be paid to					^
		the control of silty surface runoff during storm events.					

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					۸
		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					, A
		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	Who to	Location of the	When to	Implementation
	Log		recommended	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. Additional investigation is required to identify if contaminated groundwater is found. 	contaminated area		found.		N/A
		 If the investigation results indicated that the groundwater to be generated from construction works would be 					N/A
		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. 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 					N/A
		 the recharging wells. If treatment and discharge method were used, the design of wastewater treatment facilities, such as active carbon and petrol interceptor, should be submitted to the EPD and a discharge license should be obtained under the WPCO through the Regional Offices of EPD. 					N/A
S5.7	W3-CP	Sewage from Workforce	Minimize water quality	Contractor	All construction	Construction	
	-DP1/D	Portable chemical toilets and sewage holding tanks	from sewage effluent		sites where	phase	۸
	P2/DP3	should be provided for handling the construction sewage generated by the workforce. A licensed contractor should be employed to provide appropriate and adequate			practicable		

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. 					۸
		 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. 					٨
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	۸
		 Water quality of the Shenzhen River and the meander would be monitored to ensure effectiveness of the implemented mitigation measures. 					۸
S5.7	W1-CP	Bio-remediation in Shenzhen River	Minimize water quality	Contractor	Shenzhen River	Construction	
	-BR	 Water quality monitoring and audit is recommended to ensure that the proposed bio-remediation operation would not result in adverse water quality impact. Details of the water quality monitoring programme are presented in the EM&A Manual. If unacceptable water quality impact in the receiving water is recorded, additional measures such as 	impact from bio-remediation of Shenzhen River		where practicable	phase	N/A
		slowing down, or rescheduling of works 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?			
		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.			practicable		N/A
		 All the fishponds will be drained and no fishpond will be affected by bridge crossing. 					
		 In the meander, cofferdam or diaphragm walls should be 					N/A
		deployed for protecting fish ponds or nearby rivers during					
		bridge pier construction and or road widening work at					
		fishponds.					
		 For the low level viaducts crossing the small streams at Ma Tso Lung, Ping Hang and channel near Lung Hau 					N/A
		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	-	measures	measures?	Otatus
	Kei			the		measures	
			Concerns to address	measures?			
Waste Ma	nagement	(Construction Waste)	[]		Γ		
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			practicable		
		practices. The following recommendations are proposed to 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					٨
		for damage and contamination of construction materials;					۸
		 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 					٨
		demolition works to recover reusable/recyclable portions					
		(i.e. soil, broken concrete, metal etc.);					
		• provide training to workers on the importance of					۸
		appropriate waste management procedures, including					
07.0	14/140 D	waste reduction, reuse and recycling.	• • • • • • •	<u> </u>			٨
S7.6	WM2-D	Prepare Waste Management Plan and submit to the Engineer for approval	Minimize waste	Contractor	All construction	Construction	Λ
	P1/DP2		generation during		sites	phase	
	/DP3		construction				
S7.6	WM2-D	Good Site Practice	Minimize waste	Contractor	All construction	Construction	
	P1/DP2	The following good site practices are recommended throughout	generation during		sites	phase	
	/DP3	the construction activities:	construction				
	,	Nomination of an approved personnel, such as a site					٨
		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; 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; Regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors; 					л Л
S7.6	WM4-D	Storage of Waste	Minimize waste	Contractor	All construction	Construction	
	P1/DP2 /DP3	 The following recommendation should be implemented to minimize the impacts: Waste such as soil should be handled and stored well to 	generation during construction		sites	phase	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 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: Remove waste in timely manner; Employ the trucks with cover or enclosed containers for 	from storage		sites	phase	^

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. 					۸ ۸
S7.6	WM6-D	Excavated and C&D Material	Minimize waste impacts	Contractor	All construction	Construction	
	P1/DP2	Wherever practicable, C&D materials should be segregated from	from excavated and C&D		sites	phase	
	/DP3	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	material				
		the excavated and C&D materials:					٨
		 Maintain temporary stockpiles and reuse excavated fill material for backfilling; 					
		Carry out on-site sorting;					۸
		 Make provisions in the Contract documents to allow and promote the use of recycled aggregates where 					۸
		 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					, A
		Reuse of C&D Materials					Λ
		Use of Standard Formwork and Planning of Construction					^
		Materials Purchasing					
		Provision of Wheel Wash Facilities					^
		Details refer to Section 7.6.1.4 of the EIA report.					
S7.6	WM7-D	Contaminated Soil	Remediate contaminated	Contractor	All construction	Construction	
		As a precaution, it is recommended that standard good site					

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	۸
	/DP3	the Contractors should register with EPD as chemical	storage, handling and				
		waste producers. Chemical wastes should be stored in	disposal				
		appropriate containers and collected by a licensed					
		chemical waste contractor. Chemical wastes (e.g. spent					
		lubricant oil) should be recycled at an appropriate facility as					
		far as possible, while the chemical waste that cannot be					
		recycled should be disposed of at either the Chemical					
		Waste Treatment Centre, or another licensed facility, in					
		accordance with the Waste Disposal (Chemical Waste)					
		(General) Regulation.					
S7.6	WM9-D	<u>General Waste</u>	Minimize production of	Contractor	All construction	Construction	
	P1/DP2	General refuse should be stored in enclosed bins	the general refuse and		sites	phase	۸
	/DP3	separately from construction and chemical wastes.	avoid odour, pest and				
		Recycling bins should also be placed to encourage	litter impacts				
		recycling.					۸
		Preferably enclosed and covered areas should be provided					
		for general refuse collection and routine cleaning for these					
		areas should also be implemented to keep areas clean.					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	٨
	P2	portable chemical toilets depending on the number of					
		workers, land availability, site condition and activities.					
		Regularly collection by licensed collectors should be					٨
		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 Cont	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	٨
	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		

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 adjacent		
					areas in Hong		
					Kong outside		
					LMC Loop		
Landscap	e and Visu	al Impact (Construction Phase)					
S11.5.4	L-CP1-	Preservation and Protection of Existing Trees (Good Site	Avoid disturbance and	Detailed	Within project	Detailed design	
Table11.5	DP1/D	Practice)	protection of existing	design	site	and construction	
.9	P3	• The proposed works should avoid disturbance to the	trees	consultant/		phase	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					

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?			
		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	۸
11.5.9	P2/DP3	shall be optimized in order to minimize the duration of			where		
		impact.			applicable		
		· Construction site controls shall be enforced including the					٨
		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.					٨
		· The transplanting proposals are subject to review at the					
		detailed design phase and to agreement-in-principle with					
		the relevant management and maintenance agents and/or					
		government departments. The implementation programme					
		for the proposed works shall reserve sufficient time for the					
		advanced tree transplanting preparation works to enhance					
		the survival of the transplanted trees.					
		The transplanting proposals will be subject to the findings					۸
		of the detailed tree survey and felling application to be					
		undertaken by the detailed design consultants and					
		following approval by the relevant departments.					
	L-CP6-	Creation of Wetland and Landscape Buffer	Compensation of the loss	Project	The whole	Detailed design,	
	DP1/D	The existing reedbed acquired for development areas for	of landscape resources	Proponent/	project area	construction and	۸

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					٨
		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	۸
Table	DP3	<u>Practice)</u>		design	project area	and construction	
11.6.3		• The proposed works should avoid disturbance to the		consultant /	where	phase	
		existing trees within and close to the works areas. The tree		Contractor	applicable		
		preservation proposals shall be coordinated with the layout					
		and design of the engineering and architectural works at					
		detailed design phase for further retention of individual					
		trees.					
		The preservation of existing tree shall provide instant					
		greening and screening effect for proposed works.					
	V-CP2-	Works Area and Temporary Works Areas (Good Site Practice)	Minimise visual impact	Contractor	The whole	Construction	۸
	DP3	The construction sequence and construction programme			project area	phase	
		shall be optimized in order to minimize the duration of			where		
		impact.			applicable		
		Construction site controls shall be enforced including the					
		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					

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?			
		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 (Constructi	ion Phase)					
S12.7	E1-DP1	Disturbance to Fish Ponds at HHW	On the disturbance to fish	Detailed	Fish ponds at	Detailed design,	
		• Development set back a minimum of 23m from the edge	ponds at HHW	design	HHW and LMC	construction	N/A
		Meander.		consultant/		phase	
		· Management of fish pond habitat to enhance ecological		Contractor			N/A
		value to twice existing value, in order to compensate for					
		disturbance to large waterbirds.					
		• Creation and establishment will occur prior to					
		commencement of substantive works associated with any					N/A
		element of the project for which fish pond compensation is					
		required.					
		Construction phase					

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?			
		Erection of a 3m high, dull green site boundary fence to					٨
		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,					٨
		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;					۸
		• 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					۸
		bed;					
		Stockpiling of construction materials, if necessary, 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?			
		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					٨
		properly collected and/or treated. Wastewater from any					
		construction site will be minimised via the following in					
		descending order: reuse, recycling and treatment;					٨
		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);					٨
		Adequate lateral support will be erected where necessary					
		in order to prevent soil/mud from slipping into the					
		Ecological Area or LMC Meander;					٨
		Site boundary will be clearly marked and any works beyond					
		the boundary strictly prohibited;					٨
		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	٨
	/DP2/D	Prepare an emergency contingency plan The plan will	from pollutant runoff to	Operator	project site near	phase and	
	P3	include, but not be limited to, the following:	downstream areas from		streams	operation phase	
		- Potential emergency situations;	accidental spillage				
		- Chemicals or hazardous materials used on-site					
		(and their location);					
		- Emergency response team;					
		- Emergency response procedures;					
		- List of emergency telephone hotlines;					
		- Locations and types of emergency response					
		equipment;					
		- Training plan and testing for effectiveness.					
S12.7	E4-DP1	Use opaque, non-transparent, non-reflective noise barriers	Minimize the mortality	Developer /	Area within	Detailed design,	٨
	/DP2/D	for all developments associated with the Project.	impacts on birds	Detailed	project site	construction and	
	P3	Design of buildings should not incorporate use of		design		operation	٨
		night-time lighting at or near top of buildings, highly		consultant/		phases	
		reflective materials should not be used where vegetation is		contractor/			
		adjacent and glass surfaces should not be angled upwards		operator			
		in a way that reflects the sky. Unnecessary lighting should					
		be eliminated. Appropriate glass and façade treatments					
		should be used where required to minimise impact.					
		Unnecessary lighting should be avoided.					
		These include the following:					

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.					٨
		· 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					
		minimised by not creating sky glow nom the use of hight-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,	٨
	/DP2/D	and suitable replacement planting with possible installation	Eurasian Otter	design	site within the	construction	
	P3	of otter holts and the provision of potential feeding area		consultant/	project	phase	
		and spraint locations for otters in the stabilized bank		Contractor			
		subject to detailed design.					
		No significant change to velocity of water flow, water level					٨
		or water quality.					
		No direct lighting on Meander.					٨
		• 3m high, dull green site boundary fence for all					٨
		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.					٨
		•	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	٨
				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,	٨
	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/			٨
			constituting reed marsh and a 50m wide buffer zone		Operator			
			densely planted with shrubs and trees. Small number of					
			low buildings (max 14mPD high, except the building height					
			of on-site STW is 15mPD high) allowed in inner 25m of this					
			area at a plot ratio of 0.1.					
		•	At Ha Wan Tsuen entry point for many birds to LMC Loop					۸
			area provide a wider Ecological Area to minimize					
			disturbance from nearby buildings.					

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	۸
	1		movable barrier for more intense site formation activity.	impacts of mitigation		site	phase	
			Provision of fencing with 30cm gap between the existing	provisions				
			reed marsh and LMC Meander during the establishment					
			period of Ecological Area and the gap will be closed once					
			established.					
		•	Restrict work to period from 0900h to 1700h. All major					۸
			works along the edge of LMC Meander and in the					
			Ecological Area will be conducted in the wet season.					
S12.7	E12-DP	•	Minimal night-time lighting	Minimize impacts on LMC	Contractor/	All	Construction and	۸
	1/DP2/	•	No direct light on Meander	Meander	Operator		operation	۸
	DP3						phases	
S12.7	E13-DP	•	Construction limited to wet season between the hours of	Minimize impacts from	Contractor/	Pond habitat	Construction and	۸
	2		9am and 5pm.	the construction and	Operator	along alignment	operation	
		•	Use of opaque visual/noise barriers and planting of trees	operation disturbance		(mainly Ha Wan	phases	۸
			shrubs along length of road adjacent to fish ponds.	impacts		Tsuen Road)		
		•	Compensatory habitat management elsewhere to mitigate					^
			wetland loss.					
S12.7	E13-DP	•	Use of viaduct alignment to minimize wetland loss.	Minmize wetland loss	Project	Within project	Detailed design	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?			
	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	٨
	1	Area will provide habitat suitable for Common Evening		Proponent/		prior to	
		Hawker.		Detailed		construction and	٨
		· 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	٨
	2	Construction activities should not be carried out before	line corridor from		site from	phase	٨
		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,	٨
	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	٨
	P3	12.82b in the EIA report.	mitigate overall ecological	proponent /			
			impact.	contractor /			
				detailed			
				design			
				consultant /			
				developer /			
				operator			
Fisheries	(Construct	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	۸
S13.7	F7-DP3	 <u>Dust Minimization</u> 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	Λ

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	Λ
		location); • Emergency response team;					
		Emergency response procedures;					
		List of emergency telephone hotlines;					
		 Locations and types of emergency response equipment; 					

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?			
		 Training plan and testing for effectiveness. 					
Food Safe	ety (Constr	uction Phase)					
S15	F1-DP3	<u>Contingency</u> plan	Minimize significant	Contractor	Fish pond within	Construction	N/A
		The contractor should have effective communication with Food and Environmental Hygiene Department (FEHD) / Centre of Food Safety (CFS), on food surveillance and food incidents.	impacts on fish ponds		project site	phase	
		Food Surveillance Programme (http://www.cfs.gov.hk/english/programme/programme_fs/progra					
		mme_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.					
S15	F2-DP3	Dust Minimization	Dust minimization	Contractor	Fish pond within	Construction	۸
		During all excavation works, good site practice should be			project site	phase	
		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.					

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)

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

Ref	Location/	Anticipated	Recommended Mitigation Measures	Photo Records (Partial)
	Working	Major Impacts		
	Period			
EIA	All site	Dust impact	• Any excavated or stockpile of dusty material should be covered entirely	
S3.8	0700		by impervious sheeting or sprayed with water to maintain the entire surface	
33.0	area		wet and then removed or backfilled or reinstated where practicable within	
			24 hours of the excavation or unloading;	
			Any ducty motorials remaining often a stackrile is removed should be	
			 Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads; 	
			wetted with water and cleared from the surface of roads;	I Methodistic

Ref	Locat Work	ing	Anticipated Major Impacts	Recommended Mitigation Measures	Photo Records (Partial)
EIA S3.8	All area	site	Dust impact	• A stockpile of dusty material should not be extend beyond the pedestrian barriers, fencing or traffic cones;	
				• The load of dusty materials on a vehicle leaving a construction site should be covered entirely by impervious sheeting to ensure that the dusty materials do not leak from the vehicle;	

Working			
Period	Major Impacts		
All site area	Dust impact	• The portion of any road leading only to construction site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials;	
		(PFA) should be covered entirely by impervious sheeting or placed in an	
		rea	all site Dust impact 30m of a vehicle entrance or exit should be kept clear of dusty materials;

	• 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.	
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Ref	Location/ Working	Anticipated Major Impacts	Recommended Mitigation Measures	Photo Records (Partial)
	Period			
EIA S4.8	All site area	Noise impact	• Anglin plant theuld bre tifed Quanty Way of the Mechanical Pequipment practicable; (QPME) registered with EPD.	
			 Install movable noise barriers and full enclosure, screen the noisy plants including air compressor and generator. 	

Ref	Location/	Anticipated	Recommended Mitigation Measures	Photo Records (Partial)
	Working	Major Impacts		
	Period			
EIA	All site area		• Update and implementation of Stormwater Pollution Control Plan.	Temporary Drainage Arrangement Plan for The Loop and Meander Bridge
S5.7		Control		Solution of the second
			• 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	

Ref	Location/	Anticipated	Recommended Mitigation Measures	Photo Records (Partial)
	Working	Major Impacts		
	Period			
			drainage system will be undertaken by the contractor prior to the	
			commencement of construction.	
			• Diversion of natural stormwater should be provided as far as possible.	
			The design of temporary on-site drainage should prevent runoff going	
			through site surface, construction machinery and equipments in order to	<u>61-</u>
			avoid or minimize polluted runoff.	
			Sedimentation tanks with sufficient capacity, constructed from pre-	the second second second second
			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.	

Ref	Location/	Anticipated	Recommended Mitigation Measures	Photo Records (Partial)
	Working	Major Impacts		
	Period			
			• The design of efficient silt removal facilities should be based on the	The second have
			guidelines in Appendix A1 of ProPECC PN 1/94. The detailed design of	
			the sand/silt traps should be undertaken by the contractor prior to the	
			commencement of construction.	
			All drainage facilities and erosion and sediment control structures should	
			be regularly inspected and maintained to ensure proper and efficient	
			operation at all times and particularly following rainstorms.	
			• Portable chemical toilets and sewage holding tanks should be provided	
			for handling the construction sewage generated by the workforce. A	
			licensed contractor should be employed to provide appropriate and	
			adequate portable toilets to cater 0.15m3/day/employed populations and	
			be responsible for appropriate disposal and maintenance.	

Ref	Location/	Anticipated	Recommended Mitigation Measures	Photo Records (Partial)
	Working	Major Impacts		
	Period			
			• Notices should be posted at conspicuous locations to remind the workers	
			not to discharge any sewage or wastewater into the nearby environment	<u>物料 時</u> 在 及推放 ### 少女子的集日 ####################################
			during the construction phase of the Project. Regular environmental audit	Do not
			on the construction site should be conducted in order to provide an	discharge any sewage or wastewater into the nearby environment
			effective control of any malpractices and achieve continual improvement	EHD
			of environmental performance on site.	

Ref	Location/	Anticipated	Recommended Mitigation Measures	Photo Records (Partial)
	Working	Major Impacts		
	Period			
EIA	All site area	Waste Generation	• Segregate and store different types of waste in different containers, skip	
S7.6			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;	

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

Ref	Location/ Working	Anticipated Major Impacts	Recommended Mitigation Measures	Photo Records (Partial)
	Period			
			• Prepare Waste Management Plan and submit to the Engineer for approval	MODELLE COMMUNICATION Modelle Commu
			• Proper storage and sorting of excavated inert materials to maximize on site reuse for backfilling	<text></text>

Ref	Location/	Anticipated	Recommended Mitigation Measures	Photo Records (Partial)
	Working	Major Impacts		
	Period			
			• General refuse should be stored in enclosed bins separately from	
			construction and chemical wastes. Recycling bins should also be placed	
			to encourage recycling.	

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 Proactive Environmental Protection Proforma Working Period: 1st to 31th January 2023

Ref	Location/	Anticipated	Recommended Mitigation Measures	Photo Records (Partial)
	Working	Major Impacts		
	Period			
			• If chemical wastes are produced at the construction site, the Contractors should register with EPD as chemical waste producers. Chemical wastes should be stored in appropriate containers and collected by a licensed 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.	

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

Ref	Location/	Anticipated	Recommended Mitigation Measures	Photo Records (Partial)
	Working	Major Impacts		
	Period			
	Old Shenzhen River meander and other identified important ecological ly sensitive areas,		Using powered mechanical equipment for construction works only during the period 9am to 5pm at and near the old Shenzhen River meander and other identified important ecologically sensitive areas, if any;	

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

Ref*	Location/W orking Period	Anticipated Major Impacts	Recommended Mitigation Measures	Photo Records (Partial)
EIA S3.8	All site area	Dust impact	• Any excavated or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading;	Bills Milling
			• Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads;	

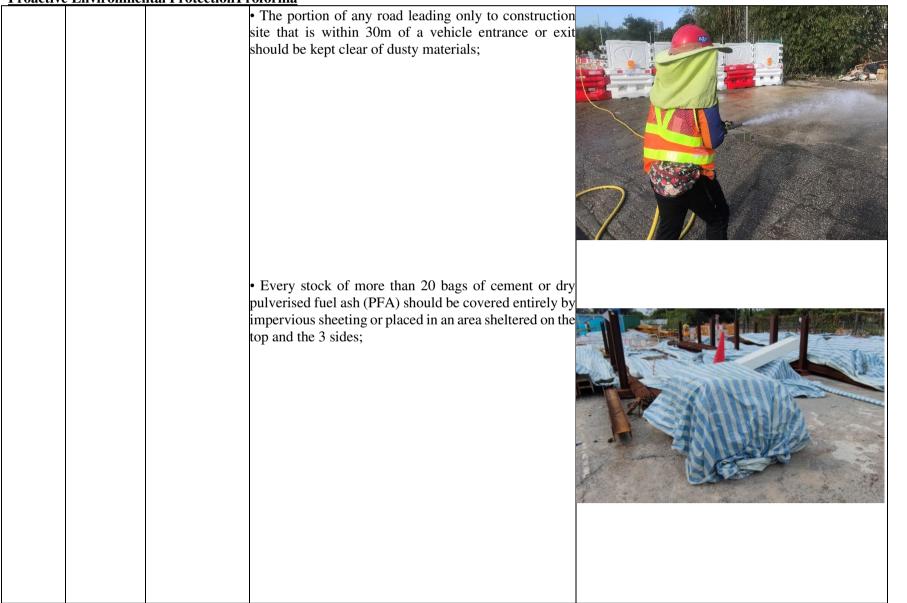
Contract No. YL/2021/01 – Contract No.: YL/2021/01

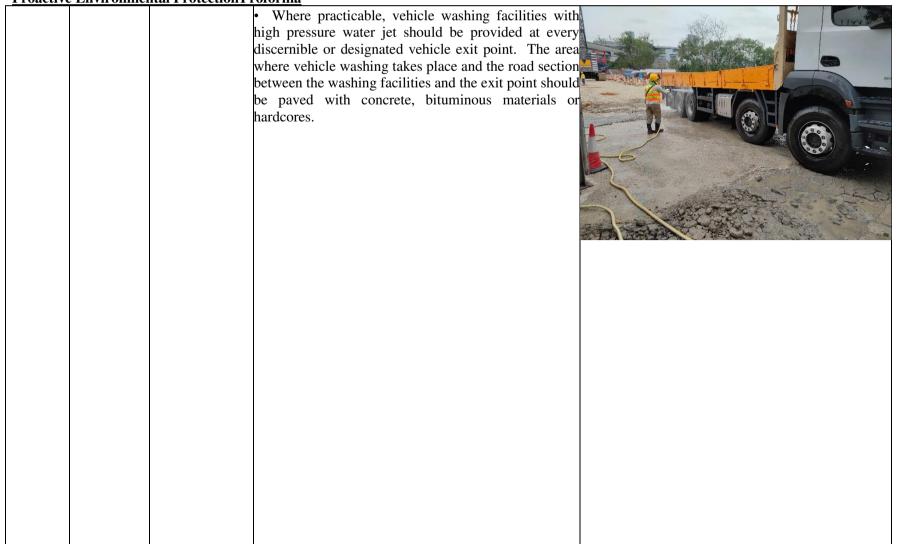
Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 2 Western Connection Road Phase 2,

Connection Roads to Fanling/ San Tin Highway and Direct Road Link Phase 1

Proactive Environmental Protection Proforma

Ref*	Location/ Working Period	Anticipated Major Impacts	Recommended Mitigation Measures	Photo Records (Partial)
EIA S3.8	All site area		• A stockpile of dusty material should not be extend beyond the pedestrian barriers, fencing or traffic cones;	
			• The load of dusty materials on a vehicle leaving a construction site should be covered entirely by impervious sheeting to ensure that the dusty materials do not leak from the vehicle;	





Contract No. YL/2021/01 – Contract No.: YL/2021/01

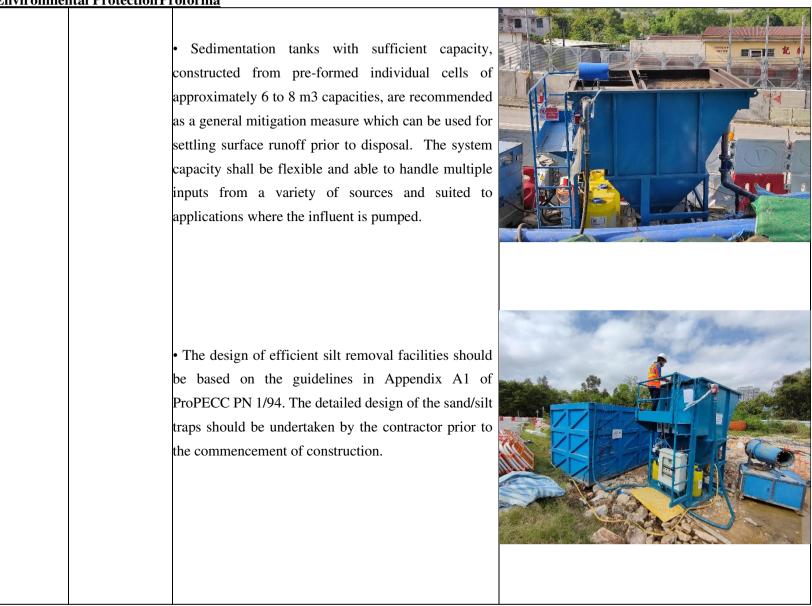
Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling/ San Tin Highway and Direct Road Link Phase 1

Proactive	e Environmer	ntal Protection Pr	<u>coforma</u>

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

EIA	All site area			
S5.7		Control	• At the start of site establishment, perimeter cut-off	
			drains to direct off-site water around the site should be	
			constructed with internal drainage works and erosion	
			and sedimentation control facilities implemented.	
			Channels (both temporary and permanent drainage	
			pipes and culverts), earth bunds or sand bag barriers	
			should be provided on site to direct stormwater to silt	
			removal facilities. The design of the temporary on-site	
			drainage system will be undertaken by the contractor	
			prior to the commencement of construction.	
			• Diversion of natural stormwater should be provided as far as possible. The design of temporary on-site drainage should prevent runoff going through site surface, construction machinery and equipments in order to avoid or minimize polluted runoff.	

Working Period: 1st to 31th January 2023



Working Period: 1st to 31th January 2023

• All drainage facilities and erosion and sediment control structures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rainstorms.

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



	Notices should be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the nearby environment during the construction phase of the Project. Regular environmental audit on the construction site should be conducted in order to provide an effective control of any malpractices and achieve continual improvement of environmental performance on site.	嚴禁排放污水 污染附近環境
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Contract No. YL/2021/01 - Contract No.: YL/2021/01

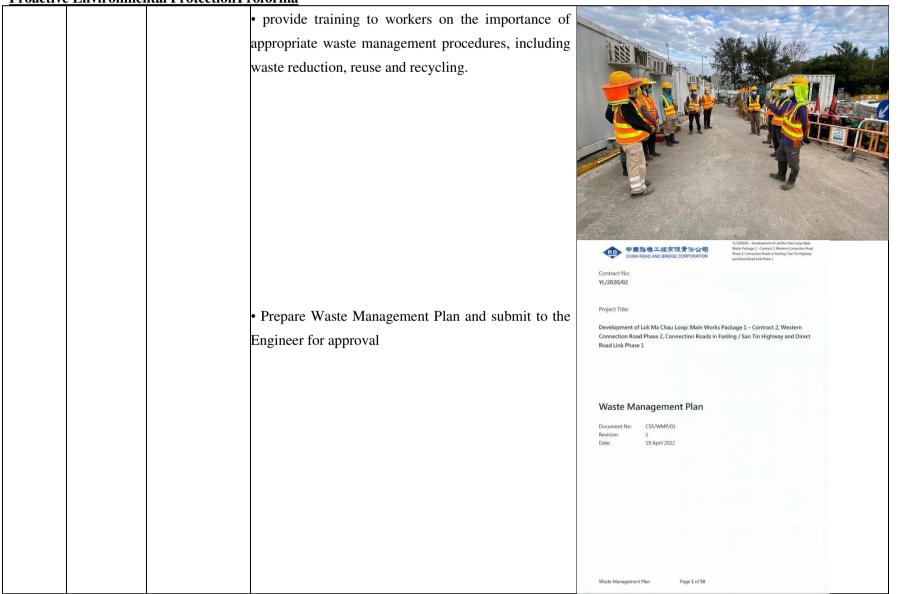
Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 2 Western Connection Road Phase 2,

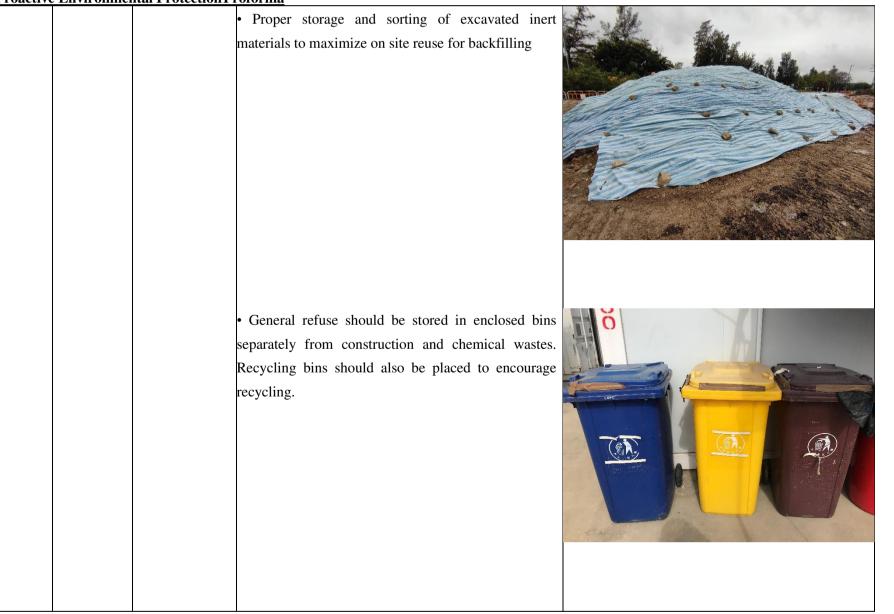
Connection Roads to Fanling/ San Tin Highway and Direct Road Link Phase 1

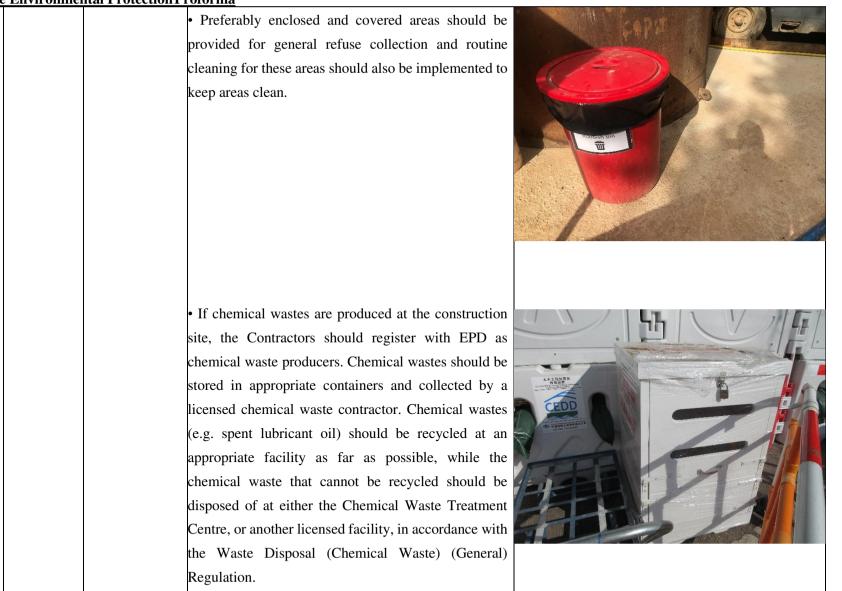
Working Period: 1st to 31th January 2023

Proactive Environmental Protection Proforma

Ref*	Location/ Working Period	ntal Protection Pr Anticipated Major Impacts	Recommended Mitigation Measures	Photo Records (Partial)
EIA	All site	Waste	• segregate and store different types of waste in	
S7.6	area		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;	







Contract No. YL/2021/01 – Contract No.: YL/2021/01

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

Connection Roads to Fanling/ San Tin Highway and Direct Road Link Phase 1 Proactive Environmental Protection Proforma

Location/	Anticipated	Recommended Mitigation Measures	Photo Records (Partial)
Working	Major Impacts		
Period			
All site area	- 85		
		barriers for all developments associated with the	
		Project.	
		reedbed	
	Working Period	Working PeriodMajor ImpactsAll site areaEcology	Working Period Major Impacts All site Ecology • Use opaque, non-transparent, non-reflective noise

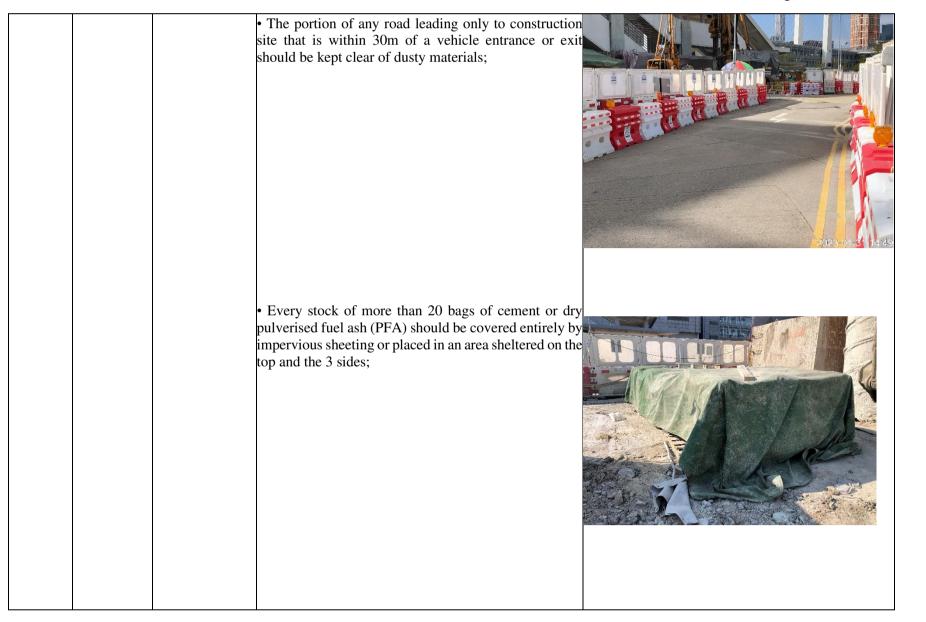
Contract No. YL/2021/01 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 3 Direct Road Link Phase 2

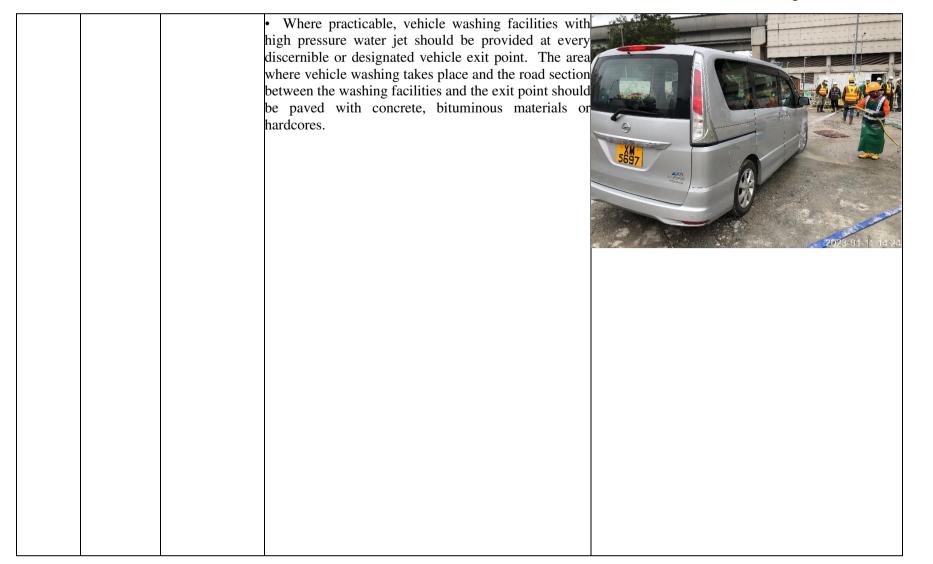
Ref*	Location/ Working Period	Anticipated Major Impacts	Recommended Mitigation Measures	Photo Records (Partial)
EIA S3.8	All site area	Dust impact	• Any excavated or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading;	
			• Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads;	

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

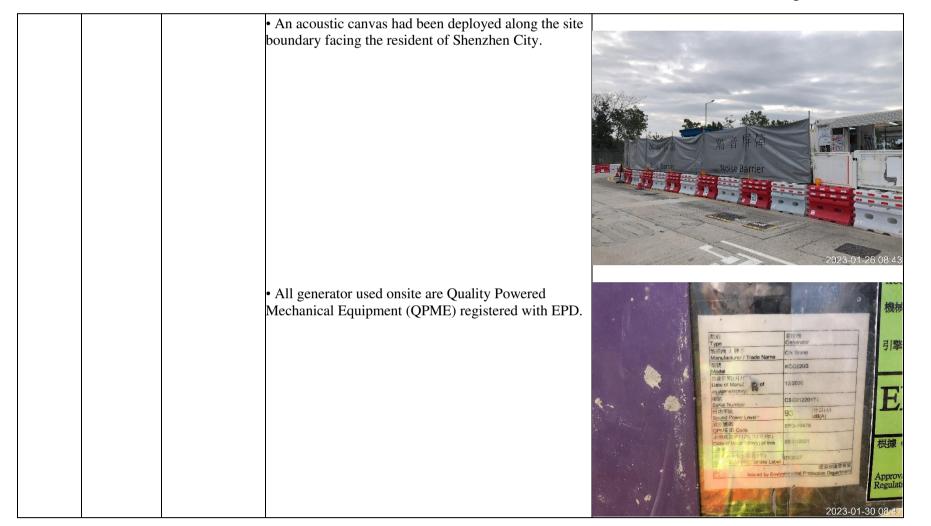
Ref*	Location/ Working Period	Anticipated Major Impacts	Recommended Mitigation Measures	Photo Records (Partial)
EIA S3.8	All site area		• A stockpile of dusty material should not be extend beyond the pedestrian barriers, fencing or traffic cones;	
			• The load of dusty materials on a vehicle leaving a construction site should be covered entirely by impervious sheeting to ensure that the dusty materials do not leak from the vehicle;	

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

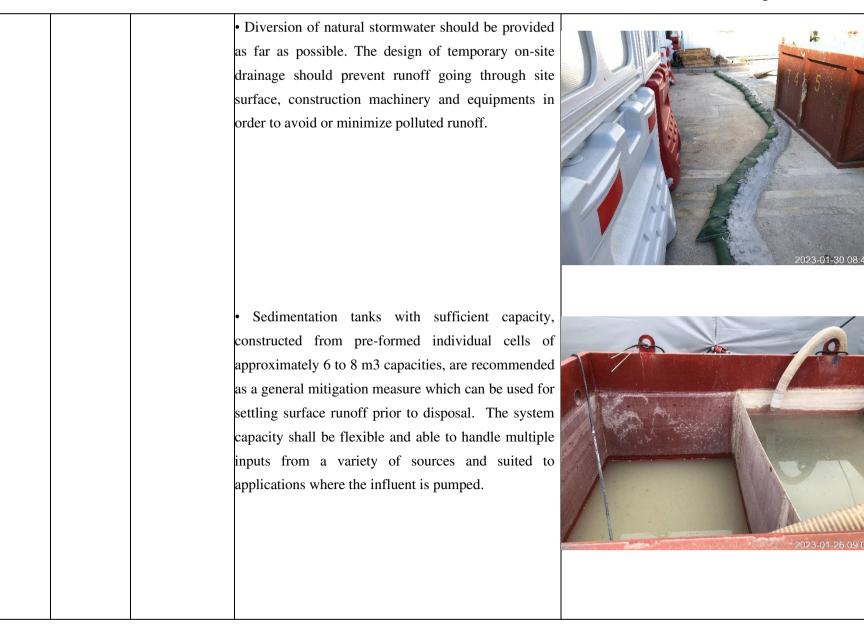


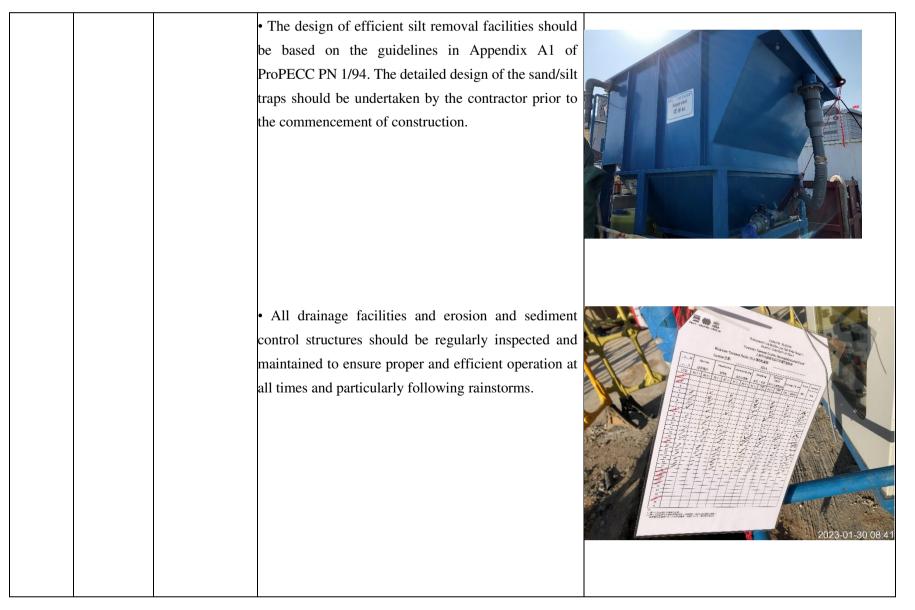


Ref*	Location/ Working Period	Anticipated Major Impacts	Recommended Mitigation Measures	Photo Records (Partial)
EIA S4.8	All site area	Noise impact	• Mobile plant should be sited as far away from NSRs as possible and practicable;	
			• Install movable noise barriers and full enclosure, screen the noisy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

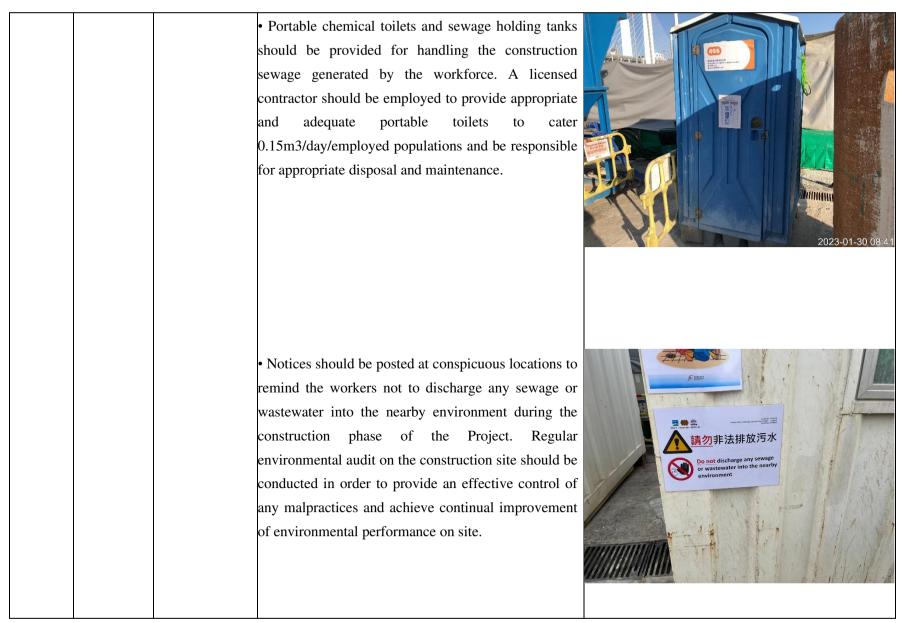


EIA	All site area		• Update and implementation of Stormwater Pollution	202012CV:nr0 Contract Son Contract Contract Son Contract Contract Contract Son Contract Contract Contract Contract Contract Contract Contreat Contract Contract Contract Contreat Cont
S5.7		Control	Control Plan.	To : ACCOM To : ACCOM Attention : Mr. Regard Man (Pasient Admanar's directive) Submission End. Ref. Proj. :: Driver Admanar's directive) Submission End. Ref. Proj. :: :: :: Data of Submission End. Ref. Proj. :: :: :: Data of Submission End. Ref. Proj. :: :: :: Data of Submission End. Ref. Proj. :: :: :: Data of Submission End. Ref. Proj. :: :: :: Specification/Proving Berterice: : :: :: :: Description of Contexts :: :: :: :: Promote 0: 2:: :: :: :: :: ::
				Assochments i Reply received by i: Proper of Submittion: Proper of Submittion: i For Aggrend II (For Comment II) For Monoral III) For Aggrend III) For Monoral IIII) For Aggrend IIII) For Monoral IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
			• 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.	





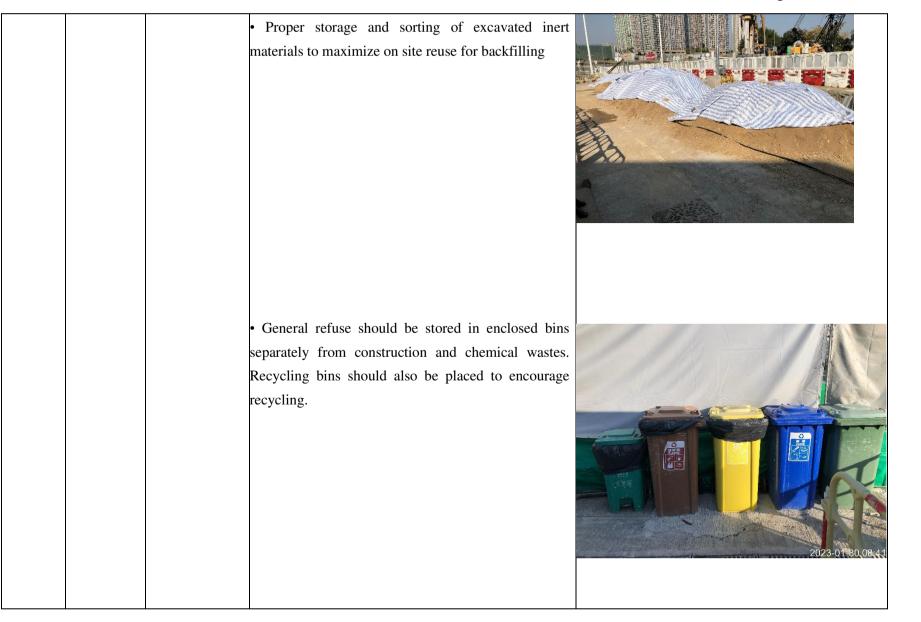
Working Period: 1st to 31st January 2023



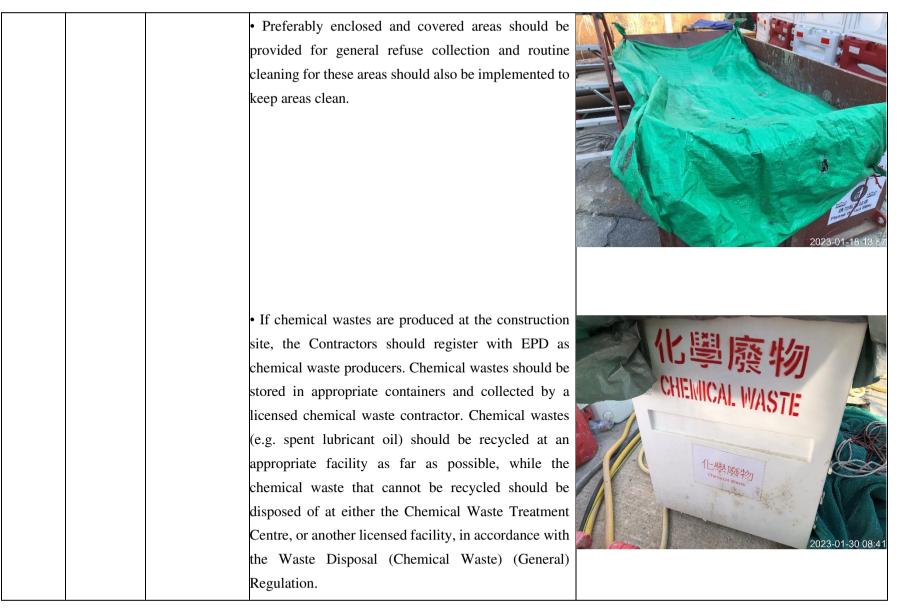
	•An additional water pump had been set up and the concerned outlet have been sealed up with concrete	

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

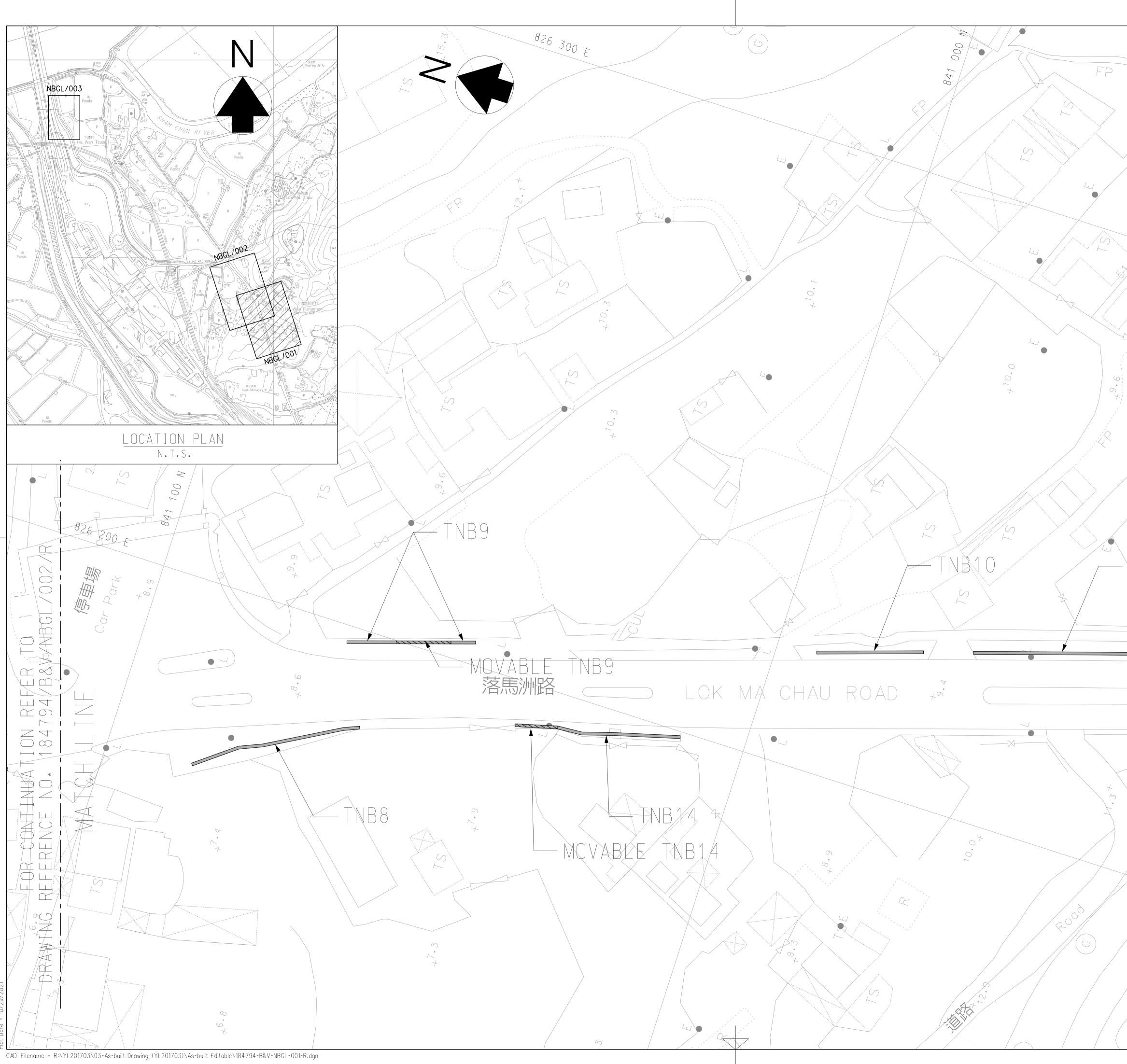
• Provide training to workers on the importance of appropriate waste management procedures, including waste reduction, reuse and recycling.	
• Prepare Waste Management Plan and submit to the Engineer for approval	Attachments : Waste Management Plan Rev.4 Reply required by :: Sufficient Plan Rev.4 Reply required by :: Safer Plan Rev.4 In response to the comment Plan Rev.4 Reply required by :: For Information Plan Rev.4 Reply required by :: For Information Plan Rev.4 Reply required by : For Information Plan Rev.4 Reply required by : For Information Plan Rev.4 Reply required by : Reviewed by: Approval. Part - Chun Wo- CRCC. Joint Venture Reviewed by: Approval. Promose I Submission : Submission: Side Reply Side Representation Plan Rev.4 In response to the comments Plan Rev.4 Reply required by: Plan Rev.4 Reply required by: : For Information Plan Rev.4 Reply required by: : Reviewed by: Approved & submitted by: Yerdion and Officer : Stage Reviewed by: Approved & submitted by: Title of Stage 22 : Stage 22 : Stage 22 Signature : Stage 22 : Stage 22 Title of Stage 22 : Stage 22 : Stage 22



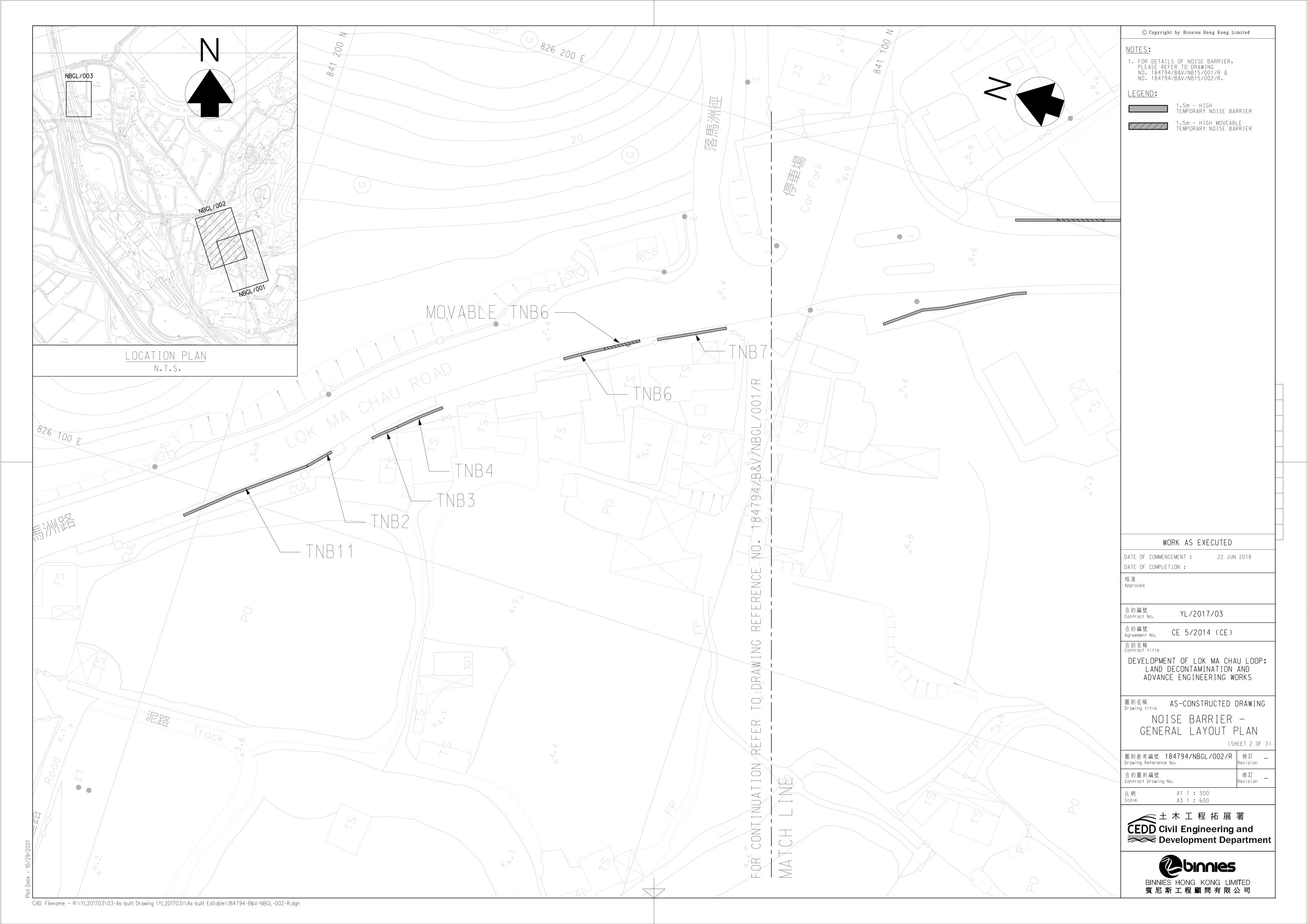
Working Period: 1st to 31st January 2023

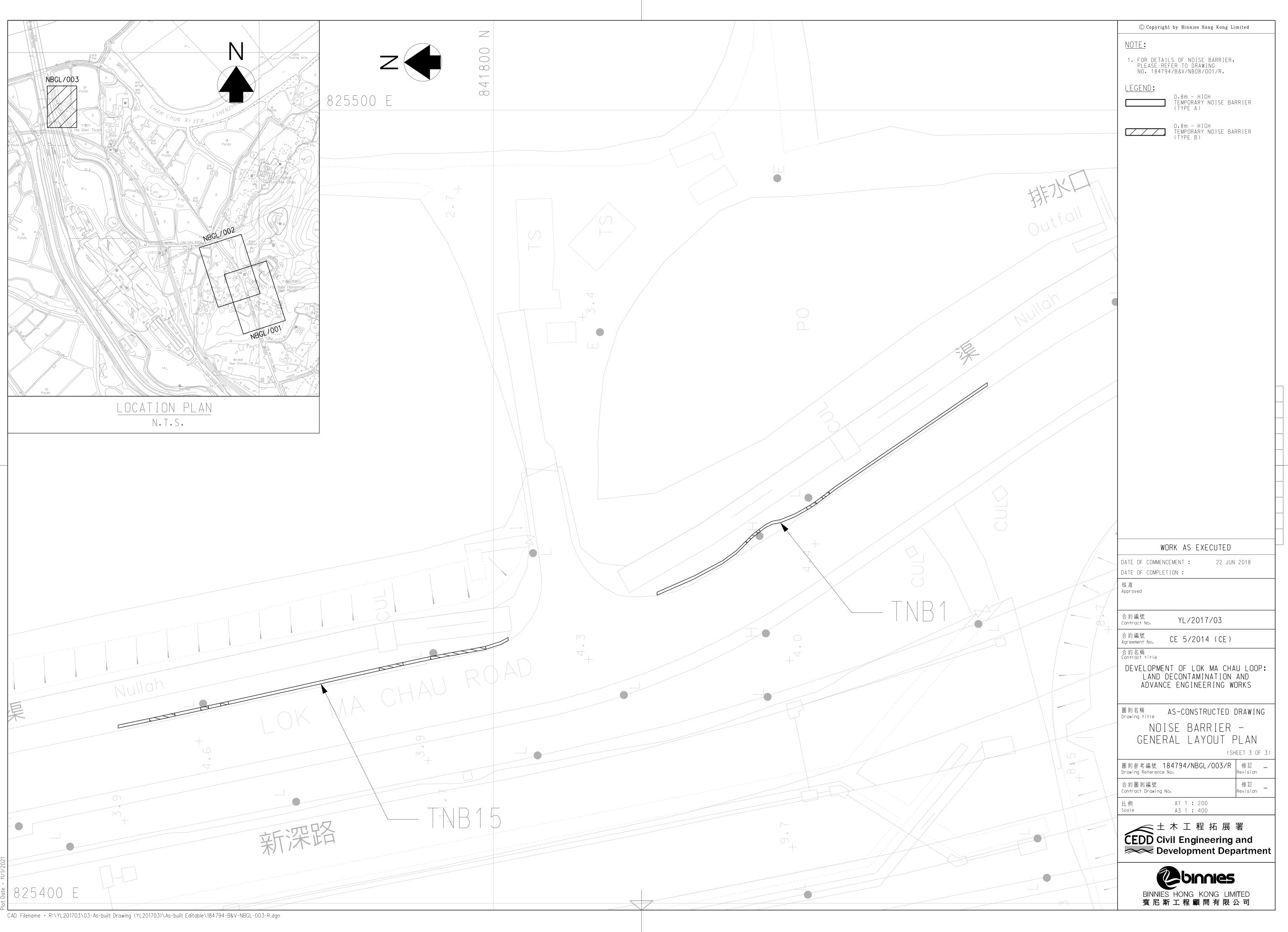


APPENDIX N TEMPORARY NOISE BARRIERS



	© Copyright by Binnies Hong Kong Limited
	NOTES: 1. FOR DETAILS OF NOISE BARRIER,
	PLEASE REFER TO DRAWING NO. 184794/B&V/NB15/001/R & NO. 184794/B&V/NB15/002/R.
	1.5m - HIGH TEMPORARY NOISE BARRIER
	1.5m - HIGH MOVEABLE TEMPORARY NOISE BARRIER
16	
527	
$\langle \tilde{c} \rangle$	
TNB13	7
m× m	
10	
	WORK AS EXECUTED DATE OF COMMENCEMENT : 22 JUN 2018
N	DATE OF COMPLETION : 核准 Approved
	合約編號 Contract No. YL/2017/03 合約編號 CF F (2014 (CF))
	合約編號 Agreement No. CE 5/2014 (CE) 合約名稱 Contract title
	DEVELOPMENT OF LOK MA CHAU LOOP: LAND DECONTAMINATION AND
	ADVANCE ENGINEERING WORKS
	圖則名稱 AS-CONSTRUCTED DRAWING Drawing title NOISE BARRIER -
	GENERAL LAYOUT PLAN
	圖則參考編號 184794/NBGL/001/R 修訂 _ Drawing Reference No. Revision
	合約圖則編號 Contract Drawing No.
	比例 A1 1:300 Scale A3 1:600
	<u> ÉEDD</u> 土 木 工 程 拓 展 署 Civil Engineering and
	Development Department
	Cebinnies
	BINNIES HONG KONG LIMITED 賓尼斯工程顧問有限公司





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

TNB ID	Photo
TNB6	
TNB7	
TNB8	

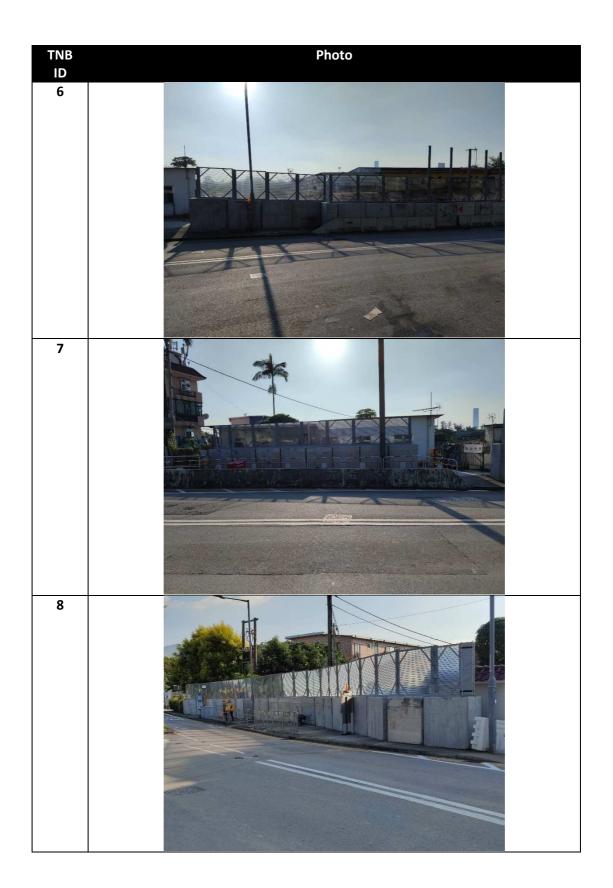
TNB ID	Photo
TNB9	
TNB10	
TNB13	

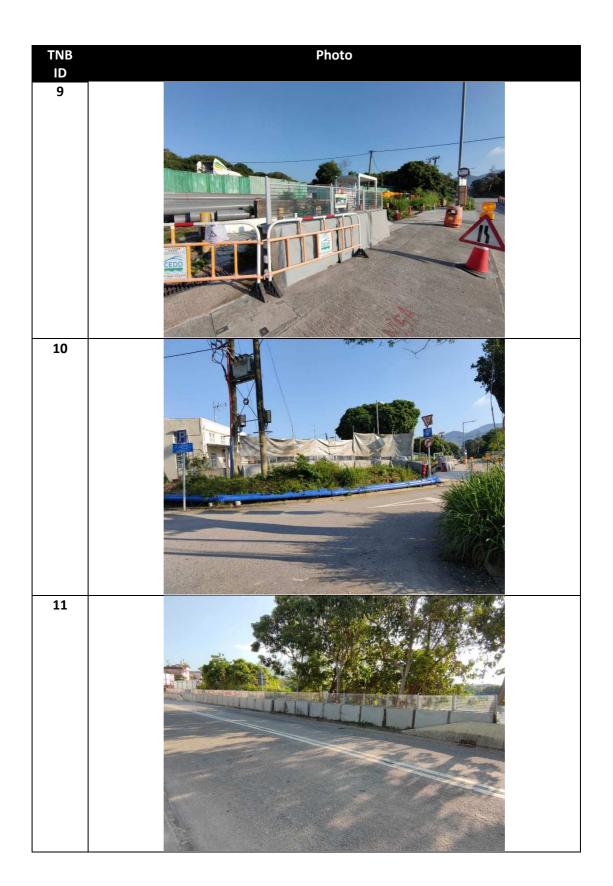
TNB ID	Photo
TNB14	TNB14
TNB15	PT/06/2020

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

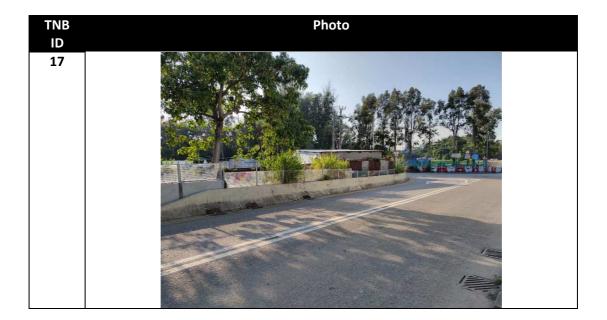


Record Photographs for Temporary Noise Barriers at Lok Ma Chau Road









APPENDIX O WASTE GENERATION IN THE REPORTING MONTH Contract No. YL/2020/01 - Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 1 Site Formation and Infrastructure Works inside Lok Ma Chau Loop and Western Connection Road Phase 1

Monthly Summary Waste Flow Table for <u>2023</u> (year)

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

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 Contract No.: YL/2020/01 Actual Quantities of Inert C&D Materials Generated Monthly Actual Quantities of C&D Wastes Generated Monthly Hard Rock Total Quantity and Large Paper/ *Reused in Reused in Disposed as Plastics Others, e.g. Generated Chemical the Contract other Projects cardboard Broken Public Fill Imported Fill Yard Waste Metals Month (a)= general refuse Waste packaging/ Concrete (c) (d) (e) (b)+(c)+(d)+(e) (b) (in '000 kg) (in '000m³) (in '000m³) (in '000kg) (in '000kg) (in '000kg) (in '000kg) (in '000m³) $(in '000m^3)$ (in '000m³) (in '000m³) (in '000m³) 0.491 0.000 0.000 0.000 0.018 Jan-23 0.000 0.000 0.000 0.491 0.919 0.000 0.067

Feb-23 Mar-23 Apr-23 Mav-23 Jun-23 0.491 0.000 0.000 0.491 Sub-total 0.000 0.919 0.000 0.067 0.000 0.000 0.000 0.018 Jul-23 Aug-23 Sep-23 Oct-23 Nov-23 Dec-23 0.491 0.000 0.000 0.000 0.000 Total 0.000 0.491 0.919 0.000 0.067 0.000 0.018

Remarks:

1.Assume the density of soil fill=2.0 tonnes/m3

2.Assume the density of rock and broken concrete=2.5 tonnes/m3

3.Assume the density of refuse = 1.5 tonnes/m3

4. The inert C&D material except slurry and bentonite are disposed at Tuen Mun 38

5. The slurry and bentonite are disposed at Tseung Kuwn O 137.

6.The non-inert C&D wastes, including general refuse are disposed at NENT

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

Monthly Summary Waste Flow Table for <u>2023</u> (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 Roads in Fanling / San Tin Highway and Direct Road Link Phase 1

	Connection Roads in Fanling / San Tin Highway and Direct Road Link Phase T													
		Actual Quantities of Inert C&D Materials Generated 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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			
Mar	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000			
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	0.432	0.000	0.000	0.000	0.432	0.000	0.000	0.000	0.000	0.000	0.428			
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	0.432	0.000	0.000	0.000	0.432	0.000	0.000	0.000	0.000	0.000	0.428			

Contract No · YI /2020/02

Note:

1. For non-inert portion of C&D material, assume the density of 1 m³ general refuse is equal to 200 kg.

2. For inert portion of C&D material, assume 6 m^3 per each full-filled dump truck.

3. All values are round off to the third decimal places.

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

Monthly Summary Waste Flow Table for <u>2023</u> (year)

Name of Person completing the record: Tino Law

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

Development	Development of Lok Ma Chau Loop . Main Works Package 1 – Contract S											
	Actual Quantities of Inert C&D Materials Generated 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 (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	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Mar-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
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	0.597	0.000	0.000	0.000	0.597	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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	0.597	0.000	0.000	0.000	0.597	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Contract No · YI /2021/01

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 P COMPLAINT LOGS

Appendix P - Complaint Log

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

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

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

Log Ref.	Date of Complaint	Complaint Route	Reference No.	Details of Complaint	Investigation Finding	Status
COM-	11 October	EPD	EPD File	EPD received a public		Interim report
2021-	2021		Ref.:	complaint on 11 October		was submitted
10-01			N07/RN/00	2021. The complainant		
			024120-21	alleged the following:		Oct 2021
				(a) Discharge of muddy		
				water from construction sites		
				of "Development of Lok Ma		
				Chau Loop" project to	1 0 0	
				Shenzhen River in the		
				morning of 8 October 2021;		
				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		
				dump trucks) in the	Project related	
				construction sites of		
				"Development of Lok Ma		
				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	

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:- <u>Contract No.: YL/2020/01</u> 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.	Interim report was submitted to EPD on 14 Feb 2022
					Based on the above information and investigation findings, the noise complaint is not related to the	

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.	 construction works of the Contract YL/2020/01. <u>Contract No.: YL/2020/02</u> 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 20 th July 2022	德運建築鑽探有限公司 is not related to the Contract No.	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.	<u>Contract No.: YL/2020/02</u> 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.	<u>Contract No.: YL/2021/01</u> 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.	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")	<u>Contract No.: YL/2020/01</u> According to the interim report, no percussive pilling works were carried out under Contract No. YL/2020/01 inside Lok Ma Chau Loop on 27 th and 28 th October 2022 according to per Condition 2.9 (d) of EP 477/2013/A.	Interim report was submitted to EPD on 22 Nov 2022
COM- 2022- 11-01	20 November 2022	EPD	EPD File Ref.: N07/RN/00 026174-22	The complainant concerned about the noise arising from piling works carried out at around 7am to around 10pm at the construction site adjacent to the Lok Ma Chau minibus station (落馬州關口 小巴站旁地盤).	Contract No.: YL/2021/01 According to the interim report, the piling works were carried out with valid construction noise permit from 09:00 to 23:00 under Contract YL/2021/01 nearby Lok Ma Chau Station. Noise control measures (e.g., permit-to- work system) have been implemented on site. Further noise mitigation measure, such as set up the acoustic canvas to enclose the engine of the used powered mechanical equipment and along the site boundary facing the resident of Shenzhen City to minimize the noise generated from works and the impact to the nearby resident. In addition, the duration of potential noisy construction activities (e.g., core demouling and casing extraction)	Interim report was submitted to EPD on 5 Dec 2022

Log Ref.	Date of Complaint	Complaint Route	Reference No.	Details of Complaint	Investigation Finding	Status
					were also minimized.	
COM- 2022- 12-01	4 December 2022	EPD	EPD File Ref.: N06/RN/00 027607-22)	The complainant alleged that: " 打樁噪音造成困 擾,情況已維持幾個星期,最 初只係星期六下午,近兩星 期日日朝早點前後就開始, 到黃昏點幾6點先至停". The complainant provided co-ordinate information (x=826305.0; y=842363.0) for reference.	Contract No.: YL/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 co- ordinate 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
				for reference, and did not indicate where he/she was affected by the construction noise.		

APPENDIX Q SUMMARY OF SUCCESSFUL PROSECUTION Appendix Q - Summary of Successful Prosecution

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

APPENDIX R ECOLOGICAL MONITORING RESULTS

Appendix R1 – Aquatic Fauna (Rose Bitterling) Survey Results

Common Name	Species Name	Chinese Name	Date:	Date: 18 th January 2023						
			Weath	Weather Condition: Sunny						
			Counts							
				Location(s)						
			S1	S2	S 3	S4	A1	A2	B 1	B2
Rose Bitterling	Rhodeus ocellatus	高體鰟鮍	Direct	Observa	ation:					
			0	0	0	0	1	1	0	0
			Sweep Netting:							
			0	0	0	0	0	0	0	0

Service Contract No. WD/04/2020 Development of Lok Ma Chau Loop: Main Works Package 1 – Environmental Team Water Quality Monitoring Results on 05-Jan-23

Location	Weather	Start	Tempera	iture (°C)	F	ъН	Salin	ity ppt	DO Satu	ration (%)	Dissolved O	xygen (mg/L)	Turbidi	ity(NTU)
LOCATION	Condition	Time	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
A1	Sunny	12:08	17.8 17.8	17.8	7.3 7.3	7.3	0.1 0.1	0.1	71.8 70.9	71.4	6.8 6.7	6.8	4.2 4.2	4.2
A2	Sunny	11:48	18.5 18.5	18.5	8.0 8.0	8.0	0.1 0.1	0.1	79.9 79.6	79.8	7.5 7.5	7.5	3.5 3.5	3.5
B1	Sunny	11:41	17.8 17.8	17.8	9.4 9.4	9.4	0.1 0.1	0.1	138.2 138.4	138.3	13.1 13.2	13.2	16.4 16.7	16.6
B2	Sunny	11:35	18.1 18.0	18.1	9.3 9.3	9.3	0.1 0.1	0.1	140.8 140.6	140.7	13.3 13.3	13.3	14.3 14.5	14.4
S1	Sunny	12:15	18.4 18.4	18.4	7.1 7.1	7.1	0.1 0.1	0.1	26.1 26.0	26.1	2.5 2.4	2.5	18.7 18.9	18.8
S2	Sunny	12:01	20.9 20.9	20.9	7.2 7.2	7.2	0.1 0.1	0.1	69.5 69.5	69.5	6.2 6.2	6.2	3.8 3.9	3.9
S3	Sunny	11:21	21.2 21.2	21.2	7.5 7.4	7.5	0.2 0.2	0.2	59.4 59.0	59.2	5.3 5.2	5.3	3.9 3.9	3.9
S4	Sunny	11:28	20.4 20.4	20.4	7.3 7.3	7.3	0.1 0.1	0.1	57.1 56.9	57.0	5.2 5.1	5.2	5.2 5.5	5.4

Service Contract No. WD/04/2020 Development of Lok Ma Chau Loop: Main Works Package 1 – Environmental Team Water Quality Monitoring Results on 13-Jan-23

Location	Weather	Start	Tempera	ature (°C)	F	ъН	Salin	ity ppt	DO Satu	iration (%)	Dissolved O	xygen (mg/L)	Turbidi	ty(NTU)
Location	Condition	Time	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
A1	Rainy	11:09	19.7 19.7	19.7	7.4 7.4	7.4	0.1 0.1	0.1	56.6 55.9	56.3	5.2 5.1	5.2	3.8 3.8	3.8
A2	Rainy	10:54	20.2 20.2	20.2	8.0 8.0	8.0	0.1 0.1	0.1	68.2 67.1	67.7	6.2 6.1	6.2	3.3 3.3	3.3
B1	Rainy	10:47	19.7 19.7	19.7	9.0 9.0	9.0	0.1 0.1	0.1	118.0 118.2	118.1	10.8 10.8	10.8	14.0 13.6	13.8
B2	Rainy	10:41	19.9 19.9	19.9	8.8 8.8	8.8	0.1 0.1	0.1	113.6 113.4	113.5	10.4 10.3	10.4	15.3 15.3	15.3
S1	Rainy	11:18	19.9 19.9	19.9	6.9 6.9	6.9	0.1 0.1	0.1	15.1 15.1	15.1	1.4 1.4	1.4	22.6 22.4	22.5
S2	Rainy	11:03	21.3 21.3	21.3	7.4 7.4	7.4	0.1 0.1	0.1	65.1 64.9	65.0	5.8 5.8	5.8	4.3 4.2	4.3
S3	Rainy	10:28	21.3 21.3	21.3	7.7 7.7	7.7	0.1 0.1	0.1	54.4 54.0	54.2	4.8 4.8	4.8	5.4 5.6	5.5
S4	Rainy	10:34	21.3 21.3	21.3	7.3 7.3	7.3	0.1 0.1	0.1	50.8 50.4	50.6	4.5 4.5	4.5	3.2 3.1	3.2

Service Contract No. WD/04/2020 Development of Lok Ma Chau Loop: Main Works Package 1 – Environmental Team Water Quality Monitoring Results on 18-Jan-23

Location	Weather	Start	Tempera	ature (°C)	F	ъН	Salin	ity ppt	DO Satu	ration (%)	Dissolved O	xygen (mg/L)	Turbidi	ty(NTU)
Location	Condition	Time	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
A1	Sunny	13:54	17.2 17.2	17.2	7.2 7.2	7.2	0.1 0.1	0.1	55.6 55.8	55.7	5.4 5.4	5.4	4.6 5.2	4.9
A2	Sunny	13:30	16.8 16.8	16.8	7.4 7.4	7.4	0.1 0.1	0.1	54.7 54.7	54.7	5.3 5.3	5.3	5.2 5.1	5.2
B1	Sunny	13:20	15.7 15.7	15.7	8.9 8.9	8.9	0.1 0.1	0.1	120.5 120.7	120.6	12.0 12.0	12.0	17.0 16.7	16.9
B2	Sunny	13:13	16.2 16.2	16.2	8.7 8.7	8.7	0.1 0.1	0.1	117.9 118.2	118.1	11.6 11.6	11.6	16.6 16.6	16.6
S1	Sunny	14:08	16.5 16.5	16.5	6.9 6.9	6.9	0.1 0.1	0.1	32.3 32.5	32.4	3.2 3.2	3.2	36.5 32.2	34.4
S2	Sunny	13:45	19.3 19.3	19.3	7.2 7.2	7.2	0.1 0.1	0.1	71.6 71.4	71.5	6.6 6.6	6.6	3.4 3.5	3.5
S3	Sunny	12:59	19.2 19.2	19.2	7.7 7.7	7.7	0.1 0.1	0.1	63.8 63.0	63.4	5.9 5.8	5.9	4.4 4.6	4.5
S4	Sunny	13:06	19.2 19.2	19.2	7.6 7.5	7.6	0.1 0.1	0.1	66.2 64.8	65.5	6.1 6.0	6.1	4.2 4.2	4.2

Service Contract No. WD/04/2020 Development of Lok Ma Chau Loop: Main Works Package 1 – Environmental Team Water Quality Monitoring Results on 26-Jan-23

Location	Weather	Start	Tempera	ature (°C)	F	ъН	Salin	ity ppt	DO Satu	iration (%)	Dissolved O	xygen (mg/L)	Turbidi	ty(NTU)
Location	Condition	Time	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
A1	Sunny	13:05	17.0 16.9	17.0	7.6 7.6	7.6	0.1 0.1	0.1	91.3 91.2	91.3	8.8 8.8	8.8	3.7 3.7	3.7
A2	Sunny	12:51	17.1 17.1	17.1	8.1 8.1	8.1	0.1 0.1	0.1	88.4 88.1	88.3	8.5 8.5	8.5	5.0 4.9	5.0
B1	Sunny	12:44	18.3 18.4	18.4	9.0 9.0	9.0	0.1 0.1	0.1	128.2 128.4	128.3	12.1 12.1	12.1	12.7 12.6	12.7
B2	Sunny	12:37	18.1 18.1	18.1	8.8 8.8	8.8	0.1 0.1	0.1	131.3 132.1	131.7	12.4 12.5	12.5	15.9 15.6	15.8
S1	Sunny	13:13	17.4 17.4	17.4	7.2 7.2	7.2	0.1 0.1	0.1	52.7 52.9	52.8	5.1 5.1	5.1	33.0 33.1	33.1
S2	Sunny	12:59	18.9 18.9	18.9	7.7 7.7	7.7	0.1 0.1	0.1	75.5 75.0	75.3	7.0 7.0	7.0	4.5 4.4	4.5
S3	Sunny	12:24	19.0 19.0	19.0	7.7 7.7	7.7	0.1 0.1	0.1	65.2 64.8	65.0	6.1 6.0	6.1	3.4 3.4	3.4
S4	Sunny	12:31	18.9 18.9	18.9	7.4 7.4	7.4	0.1 0.1	0.1	62.7 62.4	62.6	5.8 5.8	5.8	4.0 4.1	4.1