# **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 March 2023

(Version 1.0)

Certified By Dr. Priscilla Chøy (Environmental Team Leader)	
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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.

#### WELLAB LIMITED

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Our ref.: LES/J2021-04/CS/L112 Date : 17 April 2023

By Post & Email

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

#### Attn: Ms. TAM Im Fei

Dear Ms. TAM,

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

#### Verification of Monthly EM&A Report (March 2023)

Reference is made to the Monthly Environmental Monitoring and Audit (EM&A) Report of certified by the Environmental Team Leader in April 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

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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 51<sup>st</sup> 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 1<sup>st</sup> to 31<sup>st</sup> March 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

# **Environmental Monitoring and Audit Activities**

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

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

•			
Environm	ental Aspect	<b>Monitoring Parameter</b>	Date
		1-hr Total Suspended	1 <sup>st</sup> , 7 <sup>th</sup> , 13 <sup>th</sup> , 17 <sup>th</sup> , 23 <sup>rd</sup> and 29 <sup>th</sup> March
Air Quality		Particulates (TSP) Monitoring	2023
		24-hr TSP Monitoring	6 <sup>th</sup> , 10 <sup>th</sup> , 16 <sup>th</sup> , 22 <sup>nd</sup> and 28 <sup>th</sup> March 2023
Constructio	n Noise	Leq30mins	1 <sup>st</sup> , 7 <sup>th</sup> , 13 <sup>th</sup> , 23 <sup>rd</sup> and 29 <sup>th</sup> March 2023
		• Temperature	
		• pH	
		Turbidity	1 <sup>st</sup> , 3 <sup>rd</sup> , 6 <sup>th</sup> , 8 <sup>th</sup> , 10 <sup>th</sup> , 13 <sup>th</sup> , 15 <sup>th</sup> , 17 <sup>th</sup> , 20 <sup>th</sup> ,
Water Quality		• Water depth	22 <sup>nd</sup> , 24 <sup>th</sup> , 27 <sup>th</sup> , 29 <sup>th</sup> and 31 <sup>st</sup> March
		Salinity	2023
		• Dissolved Oxygen (DO)	
		• Suspended Solids (SS)	
		Avifauna flight line survey	24 <sup>th</sup> March 2023
Ecological	Lok Ma Chau (LMC) Loop	Mammal monitoring (by infra- red flash cameras)	Temporary suspended as the connectivity between the reed marsh in the LMC Loop and the EA Zone has been fenced off due to other project's land occupier (i.e. emergency hospital)

Environmental Aspect		<b>Monitoring Parameter</b>	Date
		Avifauna flight line survey	24 <sup>th</sup> March 2023
		Avifauna survey at Pond 12	1 <sup>st</sup> , 6 <sup>th</sup> , 15 <sup>th</sup> , 22 <sup>nd</sup> and 29 <sup>th</sup> March 2023
		Herpetofauna survey	3 <sup>rd</sup> March 2023
		Aquatic Fauna survey	27 <sup>th</sup> March 2023
	Western		LMC Meander
Ecological	l Connection		1 <sup>st</sup> , 3 <sup>rd</sup> , 6 <sup>th</sup> , 8 <sup>th</sup> , 10 <sup>th</sup> , 13 <sup>th</sup> , 15 <sup>th</sup> , 17 <sup>th</sup> ,
Road (WCR)	Water Quality Monitoring for	$20^{\text{th}}$ , $22^{\text{nd}}$ , $24^{\text{th}}$ , $27^{\text{th}}$ , $29^{\text{th}}$ and $31^{\text{st}}$	
		March 2023	
		Aquatic Fauna	Stream and associated ponds south of
			Lung Hau Road
			8th, 17th, 20th and 27th March 2023
			Contract 1
			1 <sup>st</sup> , 8 <sup>th</sup> , 15 <sup>th</sup> , 22 <sup>nd</sup> and 29 <sup>th</sup> March 2023
Site Environmental Audit		Environmental protection and	Contract 2
She Environ	innentai Audit	pollution control measures	1 <sup>st</sup> , 8 <sup>th</sup> , 15 <sup>th</sup> , 22 <sup>nd</sup> and 29 <sup>th</sup> March 2023
			Contract 3
			6 <sup>th</sup> , 13 <sup>th</sup> , 20 <sup>th</sup> and 27 <sup>th</sup> March 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
	1-hr TSP	0	0		0	
Air Quality	24-hr TSP	0	0		0	
Construction Noise	Daytime Leq(30min)	1	0	Refer to Appendix P	0	Refer to Appendix P
	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. One Action Level exceedance was recorded due to the noise complaint received in the reporting month. No Limit Level exceedance was recorded.

# Water Quality

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

# Ecological Monitoring

# LMC Loop

# Avifauna (Flight Line Survey)

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

# Mammals

- 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 and Black-faced Spoonbill prefer using the flight line corridor above the LMC Meander as well as the unaffected Shenzhen River instead of the centre of LMC Loop.

# Avifauna (Pond 12)

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

#### Herpetofauna

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

#### Aquatic fauna

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

#### Land Contamination

- 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 Environmental Audit in the Reporting Month	Table III	Summary	Table for S	Site Environmental	Audit in the Re	porting Month
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Contract(s)	Date(s) of Site Environmental Audit
Contract No. YL/2020/01 – Development of Lok	1 <sup>st</sup> , 8 <sup>th</sup> , 15 <sup>th</sup> , 22 <sup>nd</sup> and 29 <sup>th</sup> March 2023
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	1 <sup>st</sup> , 8 <sup>th</sup> , 15 <sup>th</sup> , 22 <sup>nd</sup> and 29 <sup>th</sup> March 2023
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	6th, 13th, 20th and 27th March 2023
Ma Chau Loop: Main Works Package 1 -	
Contract 3 Direct Road Link Phase 2	

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

# **Complaint Log**

20. One environmental complaint related to noise nuisance was received in the reporting month.

# Notification of Summons and Successful Prosecutions

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

# **Reporting Change**

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

# **Future Key Issues**

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

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

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

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

Section 1

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

- (f) Construction of retaining wall RW9 base slab and wall stem
- (g) Commence construction of retaining wall RW8

#### Section 2A

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

#### Section 2B

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

#### Section 2C

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

#### Section 3

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

# Section 5

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

<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 Structural Opening for E&M Diversion
- (b) UU Diversion for Eatermain (MTR) and Diversion at EPTI
- (c) Traffic Diversion for Stage 2 Works at DDFB

# **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 51<sup>st</sup> EM&A Report which summarises the impact monitoring results and audit findings for the EM&A programme in the period from 1<sup>st</sup> to 31<sup>st</sup> March 2023.

# Structure of the report

1.3 The structure of the report is as follows:Section 1: Introduction - purpose and structure of the report.

Section 2: **Project Information** - summarises background and scope of the Project, site description, project organisation and contact details, construction programme, the construction works undertaken and the status of Environmental Permits/Licences during the reporting 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 12<sup>th</sup> 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 30<sup>th</sup> 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 (s)ContractNo.YL/2017/03–Development of LokMa Chau Loop: LandDecontamination andAdvance EngineeringWorks (Completed)	<ul> <li>a) Land decontamination treatment within the Loop;</li> <li>b) Establishment of an Ecological Area (EA) within the Loop;</li> <li>c) Construction of a temporary access to the Loop;</li> <li>d) Minor improvement works to Ha Wan Tsuen East Road and other ancillary works;</li> <li>e) Construction of temporary noise barriers and miscellaneous road works along Lok Ma Chau Road;</li> <li>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</li> </ul>	Figure 1a
	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.	

Contract(s)	Scope of Works	Site Layout Plan
Contract No. YL/2020/01 – Development of Lok Ma Chau Loop: Main	<ul> <li>a) Ground treatment and site formation works;</li> <li>b) Construction of carriageway, footpaths, cycle tracks and a public transport interchange within the Loop;</li> </ul>	Figure 1b
Works Package 1 – Contract 1 Site Formation and Infrastructure Works	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	
inside Lok Ma Chau Loop and Western Connection Road Phase 1	<ul><li>a vehicular bridge over the old Shenzhen River meander;</li><li>d) Provision of other infrastructures, including a tertiary sewage treatment works and sewerage</li></ul>	
	<ul><li>system, water supply system, drainage system, and other associated works; and</li><li>e) Environmental mitigation measures including about 18 ha offsite wetland compensation and</li></ul>	
ContractNo.:YL/2020/02-Development of Lok	<ul> <li>about 1.3 ha offsite woodland compensation.</li> <li>a) Construction of Western Connection Road Phase 2 through widening of a section of existing Lok Ma Chau Road;</li> </ul>	Figure 1b
Ma Chau Loop: Main Works Package 1 – Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling /	<ul> <li>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;</li> </ul>	
San Tin Highway and Direct Road Link Phase 1	<ul> <li>c) Construction of a cycle track cum footbridge;</li> <li>d) Construction of associated works including road improvement works, footpaths, cycle tracks, slopes, retaining walls, water supply system and drainage system; and</li> </ul>	
ContractNo.:YL/2021/01-Development of LokMa Chau Loop: Main	<ul> <li>e) Provision of noise barriers.</li> <li>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;</li> </ul>	Figure 1b
Works Package 1 – Contract 3 Direct Road Link Phase 2	<ul> <li>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;</li> </ul>	
	<ul><li>c) Associated modification works within the MTR Lok Ma Chau Station; and</li><li>d) Associated roadworks, landscaping, electrical and mechanical works and ancillary works.</li></ul>	

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. YL	./2020/01			
AECOM	Consultants	Mr. Eric Wong	9861 8664	TBA
		Site Agent – Mr. Jeremy Luk	9013 7913	2774 0197
CRCC-Kwan Lee-Paul Y. JV	Contractor	Senior Engineer – Mr. Max Mak	9263 1116	2774 0197
		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. Roger Poon	9503 2488	3996 9202
China Road and Bridge Corporation	Contractor	Construction Team Leader – Mr. Angus Mok	98389224	3996 9202
_		Environmental Officer – Mr. Calvin So	9724 6254	3996 9202
Contract No. YL	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 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) Ground Investigation Works, Deep Cement Mixing works and Piling works for Vehicular Bridge over the Old Shenzhen River Meander
- (c) Excavation and Lateral Support (ELS) Cofferdam Construction for Box Culvert A and C
- (d) Excavation and Lateral Support (ELS) Cofferdam Construction and Underground Utilities (UU) installation for Road L1
- (e) Deep Cement Mixing works for Western Connection Road

<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 works
- (b) Pre-drilling works
- (c) Socketed H-pile, Approach Ramp & Abutment DRL-A01 and Compression load test for FBA-01-P4
- (d) Demolition of Existing Structures
- (e) DDA for Full-span erection of ST01
- (f) Retaining Wall BPW1 Bored Piling works, excavation for bored pile and concrete for bored pile
- (g) Bored pile works at ST01, CTFB and DRL
- (h) Construction of base slab Bay 16 to Bay 13, excavation for Bay 8 to 10 and deposition of rock fill
- (i) Trial pit to expose 132kV powerline and sheet piling
- (j) Construction of Pai Lau columns
- (k) TTA along footpath in Lok Ma Chau Road and Trial pit for CLP 132kV cable joint bay
- (l) ELS of Pile Cap, pile head treatments and drainage diversion
- (m) Concrete plant trial in Precast Yard in Panyu, China
- (n) Drainage diversion for forming site access near DRL-P02, temporary access ramp

from LMC MTR Station to Reedbed No. 3, Site setup in Reedbed No.3 and Sheet pile driving for ELS of DRL-P12

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

- (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
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	Downsid / Licowas	Valie	d Period				
Contract No.	Permit / License No.	From	То	Status			
Environmental Permit (EI	Environmental Permit (EP)						
Contract No. YL/2020/01 Contract No. YL/2020/02	EP-477/2013	22/11/2013	N/A	Valid			
Contract No. YL/2021/01	EP-477/2013/A	12/08/2021	N/A	Valid			
Construction Noise Permit	t (CNP)						
Contract No. YL/2020/01	GW-RN0022-23	14/01/2023	13/04/2023	Valid			
Contract No. YL/2020/02	GW-RN0113-23	10/02/2023	09/06/2023	Valid			
	GW-RN0142-23	09/02/2023	08/05/2023	Valid			
	GW-RN0326-23	31/03/2023	30/06/2023	Valid			
Contract No. YL/2021/01	GW-RN1230-22	28/12/2022	27/03/2023	Expired			
	GW-RN0277-23	28/03/2023	27/06/2023	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			

	Permit / License	Vali	d Period			
Contract No.	No.	E E		Status		
Billing Account for Dispos	Billing Account for Disposal 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		
<b>Registration of Chemical</b>	Waste Producer					
Contract No. YL/2020/01	WPN 5213-620- C4632-01	21/07/2021	Till the Contract ends	Valid		
Contract No. YL/2020/02	WPN 5213-542- C1232-24	29/11/2021	Till the Contract ends	Valid		
Contract No. YL/2021/01 WPN 5213-542- P3483-01		21/04/2022	Till the Contract ends	Valid		
Effluent Discharge 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		
Specified Processes for Ce	ment Works under	Air Pollution (	Control Ordinance			
Contract No. YL/2020/01		In a	application			

# 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	<u>YL/2020/01:</u> 7 July 2021 <u>YL/2020/02:</u> 17 Nov 2021 <u>YL/2021/01:</u> 30 Mar 2022	*

EP Conditions	Submission(s)	Requirement	Submission Date	Approval Status
		commencement of the works of the Project		
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 Project, deposited with the Director	26 Oct 2021	*
2.15	Re-appraisal report	at least one month before the commencement of corresponding parts of the works of the Project, deposited with the Director	18 Jun 2021	*
2.16	Remediation Report	no later than one month after the completion of the remediation works for approval	N/A (no remediation is required according to re- appraisal report)	N/A
2.17	<ul> <li>(a) Updated</li> <li>Contamination</li> <li>Assessment Plan</li> <li>(CAP)</li> <li>(b) Contamination</li> <li>Assessment Report</li> <li>(CAR)</li> <li>(c) Remedial Action</li> <li>Plan (RAP)</li> <li>(d) Remediation</li> <li>Report (RR)</li> </ul>	<ul> <li>(a) submitted to the Director for approval</li> <li>(b) no later than two months after the completion of the Supplementary SI</li> <li>(c) submitted to the Director for approval</li> <li>(d) no later than one month after the completion of the remediation works for approval</li> </ul>	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

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

Monitoring Station(s)	Equipment	Model and Make	Quantity
	Calibrator	TISCH Model: TE-5025A	1
<sup>(1)</sup> DMS-2B <sup>(2)</sup> 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

#### **Remarks:**

(1) Air quality monitoring has been conducted at DMS-2B (and suspended from DMS-2A) starting from 20 January 2023. Due to the complaint received from the nearby villager about the sound arising from HVS, dust meter was requested for air quality monitoring at DMS-2B starting from March 2023. IEC had no comment on the proposal of using dust meter for monitoring at DMS-2B.

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

#### Monitoring Parameters and Frequencies

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

 Table 3.3
 Impact Air Quality Monitoring Parameters and Frequencies

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

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

#### 24-hour TSP Air Quality Monitoring

#### Instrumentation

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

#### **HVS** Installation

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

- A minimum of 2 metres of separation from walls, parapets and penthouses was required for rooftop samples;
- A minimum of 2 metres separation from any supporting structure, measured horizontally was required;
- No furnaces or incineration flues were nearby;
- Airflow around the sampler was unrestricted;
- The samplers were more than 20 metres from the drip line;
- Any wire fence and gate, to protect the sampler, should not cause any obstruction during monitoring;
- Permission and access to the monitoring stations had been obtained to set up the samplers; and
- A secured supply of electricity was provided to operate the samplers.

# Filters Preparation

- 3.8 Wellab Limited was the HOKLAS accredited laboratory (HOKLAS Registration No.083) and responsible for the preparation of 24-hr conditioned and pre-weighed filter papers for the monitoring team.
- 3.9 All filters were equilibrated in the conditioning environment for 24 hours before weighing. The conditioning environment temperature was around 25 °C and not variable by more than  $\pm 3$  °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 m<sup>3</sup>/min. and 1.4 m<sup>3</sup>/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/m <sup>3</sup> )		Action Level, μg/m <sup>3</sup>	Limit Level, µg/m³
Station	Average	Range	Level, µg/m	μg/m <sup>*</sup>
DMS – 1a	104.4	52.2 - 193.8	353	
DMS – 2B	112.0	56.5 - 218.3	370	500
DMS - 3	101.4	56.2 - 181.7	351	500
DMS-4A	98.2	49.5 - 187.8	350	

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

Monitoring Station		centration 1g/m³)	Action Level, μg/m <sup>3</sup>	Limit Level, µg/m <sup>3</sup>
Station	Average	Range	Level, µg/m	μg/m
DMS – 1a	77.1	58.7 - 92.0	184	
DMS - 2B	75.1	60.3 - 90.5	166	260
DMS - 3	57.6	39.9 - 75.3	166	260
DMS-4A	40.5	27.2 - 50.2	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-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	2
Calibrator	SVANTEK SV 30A	1

# 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 <sub>eq</sub> (30 min.) dB(A) (as six consecutive L <sub>eq, 5min</sub> 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<sub>eq</sub>, L<sub>90</sub> and L<sub>10</sub> 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.

CEDD

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<br/>Month

Monitoring Station	Noise Level, L <sub>eq (30min)</sub> dB(A)		Action Level	Limit Level
Womtoring Station	Average	Range	Action Level	Limit Level
NMS-1	63.7	60.2 - 67.3	When one	
NMS-2	72.4	71.4 - 73.0	documented	$75 \text{ AD}(\Lambda)$
NMS-3	58.9	52.0 - 62.5	complaint is	75 dB(A)
NMS-4A	50.7	46.6 - 53.7	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. One Action Level exceedance was recorded due to the noise complaint received in the reporting month. No 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
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 7<sup>th</sup> April 2021 which was confirmed by Engineer Representative under Contract No. YL/2017/03 via email dated 15<sup>th</sup> June 2021. The additional monitoring station, BS1 was therefore proposed to be deleted from the water quality monitoring proramme starting from 28<sup>th</sup> 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 22<sup>nd</sup> June 2021.

<b>Monitoring Station</b>	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
<sup>(1)</sup> 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 28<sup>th</sup> June 2021 according to Proposal for Update of Water Quality Monitoring Stations (approved by EPD on 22<sup>nd</sup> 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.

# рH

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	<b>Preservation Method</b>	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	4

# **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	<ul> <li>Temperature(°C)</li> <li>pH (pH unit)</li> <li>turbidity (NTU)</li> <li>water depth (m)</li> <li>salinity (ppt)</li> <li>DO (mg/L and % of saturation)</li> <li>SS (mg/L)</li> </ul>	<ul> <li>3 water depths: 1m below water surface, mid-depth and 1m above river bed.</li> <li>If the water depth was less than 3m, mid-depth sampling only.</li> <li>If water depth was less than 6m, mid-depth might be omitted.</li> </ul>	• 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 Water quality monitoring was conducted as scheduled in the reporting month.
- 5.36 No water quality monitoring was conducted at IS6 in the reporting month since the channel was dry. Water quality monitoring station, IS6 will be further reviewed and a proposal for any alternative monitoring location including justification will be submitted for approval from IEC and EPD.
- 5.35 No water quality monitoring was conducted at IS4 during the periods from 1<sup>st</sup> to 7<sup>th</sup> March 2023 and 13<sup>th</sup> to 22<sup>nd</sup> March 2023 as the stream were dry due to dry weather.



#### **Event and Action Plan**

5.36 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 24<sup>th</sup> March 2023. Sunrise time at 6:24 am and the survey started at 5:54 am and lasted for 2 hours. The weather was foggy throughout the survey.

Monitoring Result

6.14 Total number of birds observed was 134. Eight species were included in the record of the flight line survey, including Little Egret, Great Egret, Chinese Pond Heron, Black-faced Spoonbill, Black-crowned Night Heron, Grey Heron, Great Cormorant and Black Kite. 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	40	0	7	33
Great Egret 大白鷺	17	0	3	14
Chinese Pond Heron 池鷺	3	0	3	0
Black-faced Spoonbill 黑臉琵鷺	7	0	0	7
Black-crowned Night Heron 夜鷺	1	0	1	0
Grey Heron 蒼鷺	9	0	5	4
Great Cormorant 普通鸕鷀	44	0	0	44
Black Kite 黑鳶	13	0	0	13
Total	134	0	19	115

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 1,487. **Table 6.2** shows the number of bird-flights for the eight species respectively.

Species	Total number of Bird-Flights
Little Egret 小白鷺	410
Great Egret 大白鷺	167
Chinese Pond Heron 池鷺	19
Black-faced Spoonbill 黑臉琵鷺	66
Black-crowned Night Heron 夜鷺	4
Grey Heron 蒼鷺	79
Great Cormorant 普通鸕鷀	599
Black Kite 黑鳶	143
Total	1,487

Table 6.2	Number of Bird-flights
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- 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 and Black-faced Spoonbill prefer using the flight line corridor above the LMC Meander as well as the unaffected Shenzhen River instead of the centre of LMC Loop.

#### Monitoring Requirements (Mammals)

#### Monitoring Requirements

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

#### Monitoring Location

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

#### Monitoring Methodology

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

#### Monitoring Results

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

#### Western Connection Road

#### **Monitoring Requirements (Avifauna Monitoring – Flight Line Survey)**

6.24 Refer to Sections 6.1 to 6.17.

#### Monitoring Requirements (Avifauna Monitoring – Pond 12)

#### Monitoring Requirements

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

#### Monitoring Frequency

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

#### Monitoring Location

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

#### Monitoring Methodology

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

#### Monitoring Result

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

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Dates of pond 12 avifauna survey: 1<sup>st</sup>, 6<sup>th</sup>, 15<sup>th</sup>, 22<sup>nd</sup> and 29<sup>th</sup> March 2023
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- 6.32 In total, 269 individuals from 27 avifauna species were recorded at Pond 12 in the reporting month. The detailed results are shown in **Appendix R1**.
- 6.33 The monitoring results during construction works were compared against the results before the commencement of works of the day. The number of bird species and the abundance of birds recorded at Pond 12 during construction were higher than the results prior to the construction works. (Refer to **Table 6.3**).

**Number of Species** Abundance **Monitoring Date** Before During Before During Construction Construction Construction Construction 1<sup>st</sup> March 2023 18 10 15 35 6<sup>th</sup> March 2023 8 13 29 50 15<sup>th</sup> March 2023 6 14 17 31 22<sup>nd</sup> March 2023 10 12 21 31 29<sup>th</sup> March 2023 7 15 6 22

Table 6.3Summary of Avifauna Monitoring Results at Pond 12

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

### Herpetofauna

### Monitoring Requirements

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

### Monitoring Frequency

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

#### Monitoring Location

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

#### Monitoring Methodology

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

#### Monitoring Result

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

Date of Herpetofauna survey:	3 <sup>rd</sup>	March	ı 2023	3 (both
	day	v-time	and	night-
	tim	e surve	ey)	

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

#### Aquatic Fauna

#### Monitoring Requirements

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

#### Monitoring Frequency

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

6.46 *In situ* monitoring of water quality in LMC Meander was conducted weekly during the construction phase and the first 12 months of operation.

#### Monitoring Location

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

#### Monitoring Methodology

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

#### Monitoring Result

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

Date of Aquatic Fauna Survey:	27 <sup>th</sup> March 2023
	LMC Meander
Date of Water Quality Monitoring for	$1^{st}$ , $3^{rd}$ , $6^{th}$ , $8^{th}$ , $10^{th}$ , $13^{th}$ , $15^{th}$ , $17^{th}$ , $20^{th}$ , $22^{nd}$ , $24^{th}$ , $27^{th}$ , $29^{th}$ and $31^{st}$ March 2023
Aquatic Fauna	Stream and associated ponds south of Lung Hau Road
	8 <sup>th</sup> , 17 <sup>th</sup> , 20 <sup>th</sup> and 27 <sup>th</sup> March 2023

- 6.53 No potential impact due to the runoff from the construction activities of the Western Connection Road was identified during the survey of Aquatic Fauna in the reporting month. In addition, no deterioration in the water quality due to the construction activities of the Western Connection Road was observed.
- 6.54 The detailed aquatic fauna (Rose Bitterling) results and In situ water quality monitoring

results at the stream and associated ponds south of Lung Hau Road are shown in Appendices R3 and R4 respectively.

6.55 *In situ* water quality monitoring results in LMC Meander at 3 monitoring stations, including CS1, IS1 and IS2 are presented in Section 5 and **Appendix H**. No Action / Limit Level exceedance was recorded.

## 7 LAND CONTAMINATION

#### General

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

Contamination Zone ID in EIA	Contamination Hot Spot	Estimated Vertical Extent of Contamination	Estimated Thickness (m)	Estimated Area of Contamination Zone (m <sup>2</sup> )	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 6<sup>th</sup> January 2020
  - (b) IRR for hot spot LD-003 endorsed by EPD on 18<sup>th</sup> March 2020
  - (c) IRR for hot spot LD-002 commented by EPD on 3<sup>rd</sup> September 2020 and resubmitted by Contractor on 16th September 2020
  - (d) IRR for hot spot LD-005 endorsed by EPD on 23<sup>rd</sup> October 2020
  - (e) Final Remediation Report including the result of hotpsot LD-004 was submitted to EPD on 28<sup>th</sup> 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 $\text{m}^3$ )	0	N/A
Contract No. YL/2020/01		Reused in other Contracts/ Projects (Inert) (in '000 m <sup>3</sup> )	0	N/A
		Disposal as Public Fill (Inert) (in '000 m <sup>3</sup> )	1.129	N/A
		Reused in this Contract (Inert) (in '000 m <sup>3</sup> )	0	N/A
Contract No. YL/2020/02	Inert	Reused in other Contracts/ Projects (Inert) (in '000 m <sup>3</sup> )	0	N/A
		Disposal as Public Fill (Inert) (in '000 m <sup>3</sup> )	1.359	N/A
		Reused in this Contract (Inert) (in '000 m <sup>3</sup> )	0	N/A
Contract No. YL/2021/01		Reused in other Contracts/ Projects (Inert) (in '000 m <sup>3</sup> )	0	N/A
		Disposal as Public Fill (Inert) (in '000 m <sup>3</sup> )	0.707	N/A
		Recycled Metal ('000kg)	0.012	N/A
Contract No.		Recycled Paper / Cardboard Packing ('000kg)	0.132	N/A
YL/2020/01		Recycled Plastic ('000kg)	0.016	N/A
		Chemical Wastes ('000kg)	0	N/A
		General Refuses ('000m <sup>3</sup> )	0.032	NENT Landfill
		Recycled Metal ('000kg)	0	N/A
Contract No.	Non-	Recycled Paper / Cardboard Packing ('000kg)	0.004	N/A
YL/2020/02	inert	Recycled Plastic ('000kg)	0.001	N/A
		Chemical Wastes ('000kg)	0	N/A
		General Refuses ('000m <sup>3</sup> )	0.171	NENT Landfill
		Recycled Metal ('000kg)	0.011	N/A
Contract No. YL/2021/01		Recycled Paper / Cardboard Packing ('000kg)	0	N/A
		Recycled Plastic ('000kg)	0.005	N/A
		Chemical Wastes ('000kg)	0	N/A
		General Refuses ('000m <sup>3</sup> )	0.001	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 9.2 Contractor and IEC on 1st, 6th, 8th, 13th, 15th, 20th, 22nd, 27th and 29th March 2023 in the reporting month. Summary of site audits under the Project are presented in Table 9.1. The details of observations during site audit are shown in Table 9.2.

Table 9.1 **Summary of Site Audits** 

Contract(s)	Date(s) of Site Environmental Audit
Contract No. YL/2020/01 - Development of Lok Ma Chau	1 <sup>st</sup> , 8 <sup>th</sup> , 15 <sup>th</sup> , 22 <sup>nd</sup> and 29 <sup>th</sup> March 2023
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	1 <sup>st</sup> , 8 <sup>th</sup> , 15 <sup>th</sup> , 22 <sup>nd</sup> and 29 <sup>th</sup> March 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	6 <sup>th</sup> , 13 <sup>th</sup> , 20 <sup>th</sup> and 27 <sup>th</sup> March 2023
Loop: Main Works Package 1 – Contract 3 Direct Road Link	
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	<b>Observations and</b>	Follow-up
		Recommendations	
Contract No. YL	/2020/01		
	15/03/2023	Green nets used to cover the stockpile at Box Culvert A should be replaced by impermeable tarpaulin sheets.	Stockpile at Box Culvert A has been cleared by the Contractor as observed during follow-up audit session on 22/03/2023.
Air Quality		The dusty stockpiles at Box Culvert C should be covered with impervious tarpaulin sheets.	The dusty stockpile at Box culvert C was cleared the Contractor as observed during follow-up audit session on 29/03/2023.
Noise		No major environmental deficiency was identified during the reporting month.	
Water Quality	22/03/2023	Exposed slopes at pond 5 shall be covered with tarpaulin sheets.	Slope at pond 5 has been covered with tarpaulin sheets by the Contractor as observed during follow-up audit session on 29/03/2023.
Waste / Chemical Management		No major environmental deficiency was identified during the reporting month.	

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

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Parameters	Date	Observations and	Follow-up
		Recommendations	
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	
Leonogy		identified during the reporting month.	
Fisheries		No major environmental deficiency was	
1 (5)((1)(5)		identified during the reporting month.	
Permits/Licences		No major environmental deficiency was	
		identified during the reporting month.	
Contract No. YL	/2020/02		
		To ensure vehicles leave the site at	Vehicles were cleaned at Reed
	01/03/2023	Reed Bed 3A without debris of dirt.	Bed 3A as observed during
			follow-up audit session on
Air Quality			08/03/2023.
2		The idle stockpiles of dusty materials	The stockpile has been sprayed
	15/03/2023	should be covered entirely with	with water regularly as observed
		impervious tarpaulin sheet at TAR1.	during follow-up audit session on
			29/03/2023.
Noise		No major environmental deficiency was	
		identified during the reporting month.	
		To further clear the muddy blockage at	The muddy blockages have been
	15/03/2023	the perimeter cut-off drain at CS1.	cleared by the Contractor as
	15/05/2025		observed during follow-up audit
			session on 22/03/2023.
		To enhance the water mitigation	Sandbag has been placed at the
		measure at the sloped opening at site	boundary of LCS by the
	15/03/2023	boundary of LCS.	Contractor as observed during
Water Quality			follow-up audit session on
			22/03/2023.
		To enhance water mitigation measures	Existing drainage have been
		around existing drainage at Reed Bed 3.	blocked with sandbags,
	22/03/2023		barricaded and covered by the
			Contractor as observed during
			follow-up audit session on
			29/03/2023.
		To provide drip trays for chemical	The chemical containers were
	01/02/2022	storages at CS1 and LCS.	removed from the site by the
	01/03/2023		Contractor as observed during
<b>H</b> 7 ( )			follow-up audit session on
Waste /			08/03/2023.
Chemical Managament		To clear the existing oil leakage and	Both oil leakages have been
Management		avoid further leakage from the air	cleared. In addition, the hammer
		compressor at CS1 and the hammer drill	
		at LCS.	by the Contractor as observed
			during follow-up audit session on 22/03/2023.
Land		No major environmental deficiency was	22/03/2023.
Lana Contamination		identified during the reporting month.	
Landscape and		No major environmental deficiency was	
Lanascape ana Visual		identified during the reporting month.	
r เรนนเ			
Ecology		No major environmental deficiency was identified during the reporting month	
		identified during the reporting month.	
Fisheries		No major environmental deficiency was	

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

### 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**.

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	ng construction a nented as confor 2.7 (Ecological N	ming to the relevant information and
(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;	Yes	Development of Lok Ma Chau Loop: Land Decontamination and Advance Engineering WorksThe pre-construction search has been carried out in November 2018 before the Advance Works commencement. 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 1The 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	-
(1) 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.

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	truction 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 3b of this Permit;	Yes	The temporary noise barriers (TNBs) along LMC Road were completed under the Contract in October 2021 (Figures 2a and 2b of EP- 477/2013/A). ( <b>Appendix N</b> )
and 50 of this Fernint,		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	<ul> <li>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:</li> <li>No aquaculture activities include drying of ponds, reprofiling, harvesting and feeding;</li> </ul>

EP Requirements	Compliance Status	Remarks
from the fish pond to the works area.		<ul> <li>No evidence of recently used pond culture equipment;</li> <li>No presence of fish-rearing paraphernalia and</li> <li>No evidence of trimming of vegetation growing on pond bund.</li> <li>As such, the erection of sheet pile/barrier wall to mitigate construction stage fisheries impacts as stated in Condition 2.10 of the EP</li> </ul>
		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 <sup>2</sup> 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<sup>th</sup> 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<sup>th</sup> 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.

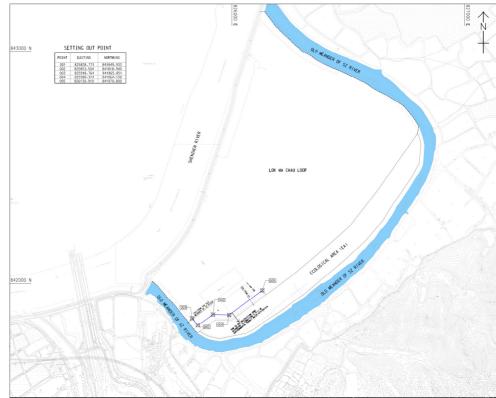
#### **Ecological Mitigation Measures – Installation of 3m-high Olive Green Fence**

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 20<sup>th</sup> 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 and water quality monitoring.
- 11.3 One Action Level exceedance was recorded due to the noise complaint received in the reporting month. No Limit Level exceedance was recorded.

#### **Summary of Environmental Complaint**

11.4 One 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**.

Reporting Period	Environmental Complaint Statistics		
	Frequency	Cumulative	Project related complaint
Jan 2019 – Feb 2023	18	19	1
Mar 2023	1		0

 Table 11.1
 Statistical Summary of Environmental Complaints

### Summary of Notification of Summons and Successful Prosecutions

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

 Table 11.2
 Statistical Summary of Environmental Summons

Reporting Period		Environmental Summons Statistics	
	Frequency	Cumulative	Project related summon
Jan 2019 – Feb 2023	0	0	0
Mar 2023	0		0

Reporting Period	Environmental Prosecution Statistics		
	Frequency	Cumulative	Project related Prosecution
Jan 2019 – Feb 2023	0	0	0
Mar 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:

<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 Construction for Vehicular Bridge over the old Shenzhen River Meander
- (e) Structure Construction for Box Culverts
- (f) Drainage Works and Roadworks
- (g) Woodland Compensation Works

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

#### Section 1

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

#### Section 2A

- (h) Demolition of Existing Structures along Lok Ma Chau Road is pending VR/AECOM coordination
- (i) Continue Bored Piling for Retaining Wall BPW1
- (j) Site Clearance at LMC Road Zone 3, Zone 4, Zone 5 and Zone 6
- (k) Trial Pit to expose and shift existing Utilities in Zone 4
- (1) Trial Pit to expose and shift existing Utilities in Zone 5

- (m) Liaison with utility companies for utility diversion
- (n) UU works along Lok Ma Chau Road
- (o) Construction of Noise Barrier NB16
- (p) Drainage construction along Lok Ma Chau Road
- (q) Waterworks along Lok Ma Chau Road

#### Section 2B

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

#### Section 2C

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

#### Section 3

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

#### Section 5

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

#### <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 Structural Opening for E&M Diversion
- (b) UU Diversion for Eatermain (MTR) and Diversion at EPTI
- (c) Traffic Diversion for Stage 2 Works at DDFB
- 12.2 The Contractor is recommended to arrange and maintain the water quality mitigation measures according to the construction site drainage plan during 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. 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. The Contractor should properly maintain the temporary noise barriers by frequently checking and maintaining the acoustic materials wrapped on noisy part of PME and ensure no gaps between noise barriers; proactively identify any potential construction noise impact to NSRs and provide sufficient mitigation measures if necessary. Moreover, the fencing used for the site boundary and as a visual barrier during the construction phase shall also be maintained at 3m high and of a dull or olive green colour, in order to minimise visual impact as this fencing is to shroud the most visible human activity (movement of persons and vehicles) from adjacent wetland areas. All ecological mitigation measures recommended in the Project Implementation Schedule in EP / approved EIA report / EM&A Manual should be properly implemented and maintained as far as practicable.

### Monitoring Schedule for the Next Month

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

#### **Construction Programme for the Next Month**

12.6 Tentative construction programmes are provided in Appendix A.

### 13 CONCLUSIONS AND RECOMMENDATIONS

#### Conclusions

13.1 The EM&A Report presents the EM&A works undertaken in March 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. One Action Level exceedance was recorded due to the noise complaint received in the reporting month. No 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 and Black-faced Spoonbillprefer 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 and Black-faced Spoonbill prefer using the flight line corridor above the LMC Meander as well as the unaffected Shenzhen River instead of the centre of LMC Loop.

Avifauna (Pond 12)

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

#### Herpetofauna

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

#### Aquatic fauna

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

#### Land Contamination

- 13.13 Decontamination for five arsenic-contaminated zones (LD01 LD05) identified in LMC Loop was completed and the final Remediation Report was submitted and approved by EPD in accordance with Condition 2.16 of the EP-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 1<sup>st</sup>, 6<sup>th</sup>, 8<sup>th</sup>, 13<sup>th</sup>, 15<sup>th</sup>, 20<sup>th</sup>, 22<sup>nd</sup>, 27<sup>th</sup> and 29<sup>th</sup> March 2023 by ET in the reporting month.

#### Environmental Complaints, Summons and Prosecutions

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

13.18 The ET would keep track on the EM&A programme to ensure compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

#### Recommendations

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

#### Air Quality Impact

- To provide the dust suppression measures such as water spraying on all haul roads, exposed work site areas and dust generation works;
- To provide and maintain impervious materials to cover the stockpiles of dusty materials;
- 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 and enhance the protection and bunding 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 ensure vehicles leaving the site are free from debris of dirt; and
- To implement the effective water quality mitigation measures according to the site drainage plan, and review the site drainage plan measures as appropriate.

### Ecology Impact

• To maintain properly the 3m high olive-green fence around the construction site and 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

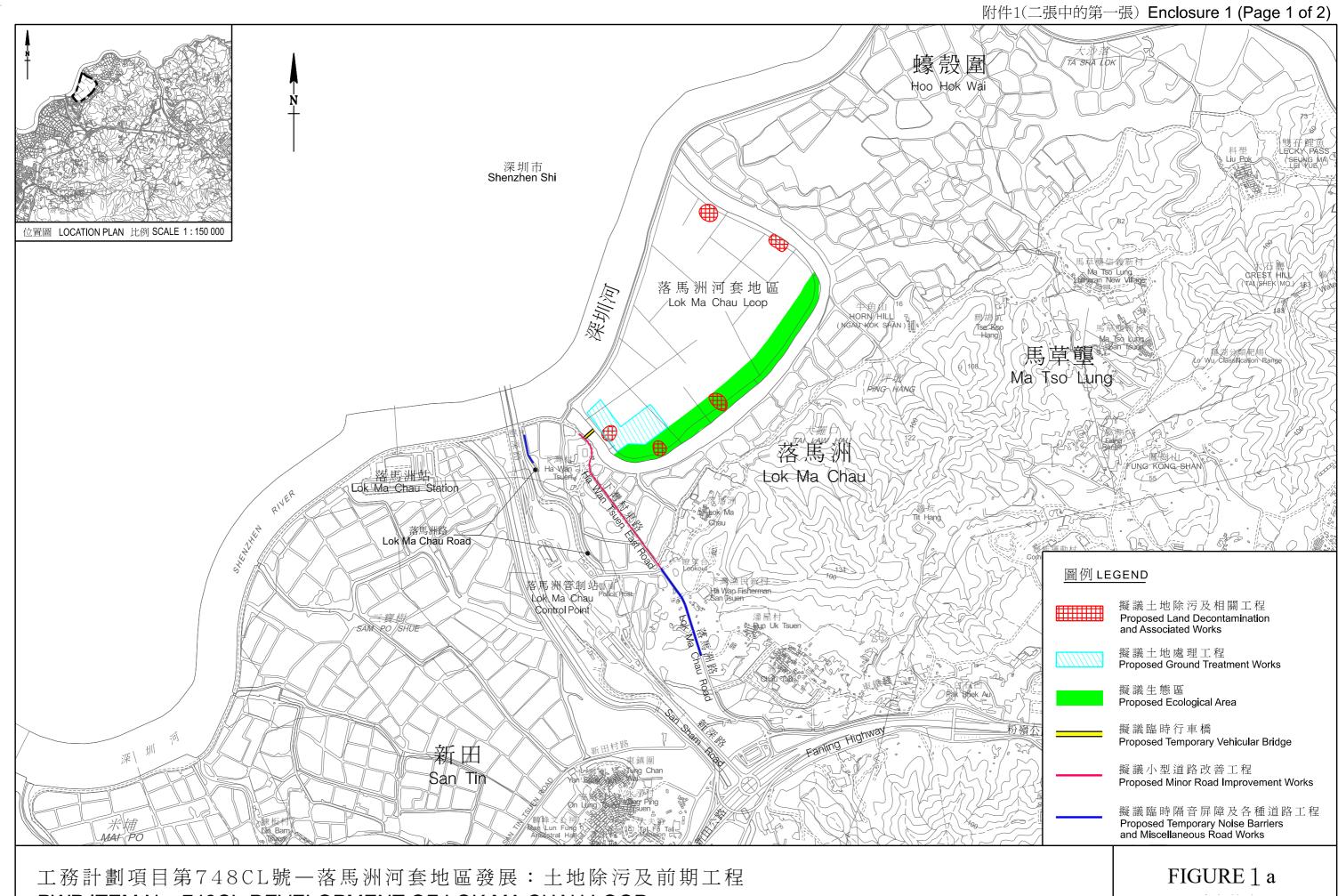
- To check for any accumulation of waste materials or rubbish on site;
- To carry out inspection of dump trucks at site exit to ensure inert and non-inert C&D materials are properly segregated before delivering offsite;
- To avoid any discharge or accidental spillage of chemical waste or oil directly from the equipment and the site;
- To maintain the drip tray well and/or provide tarpaulin sheet properly for equipment to prevent oil and chemical leakage;
- 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.

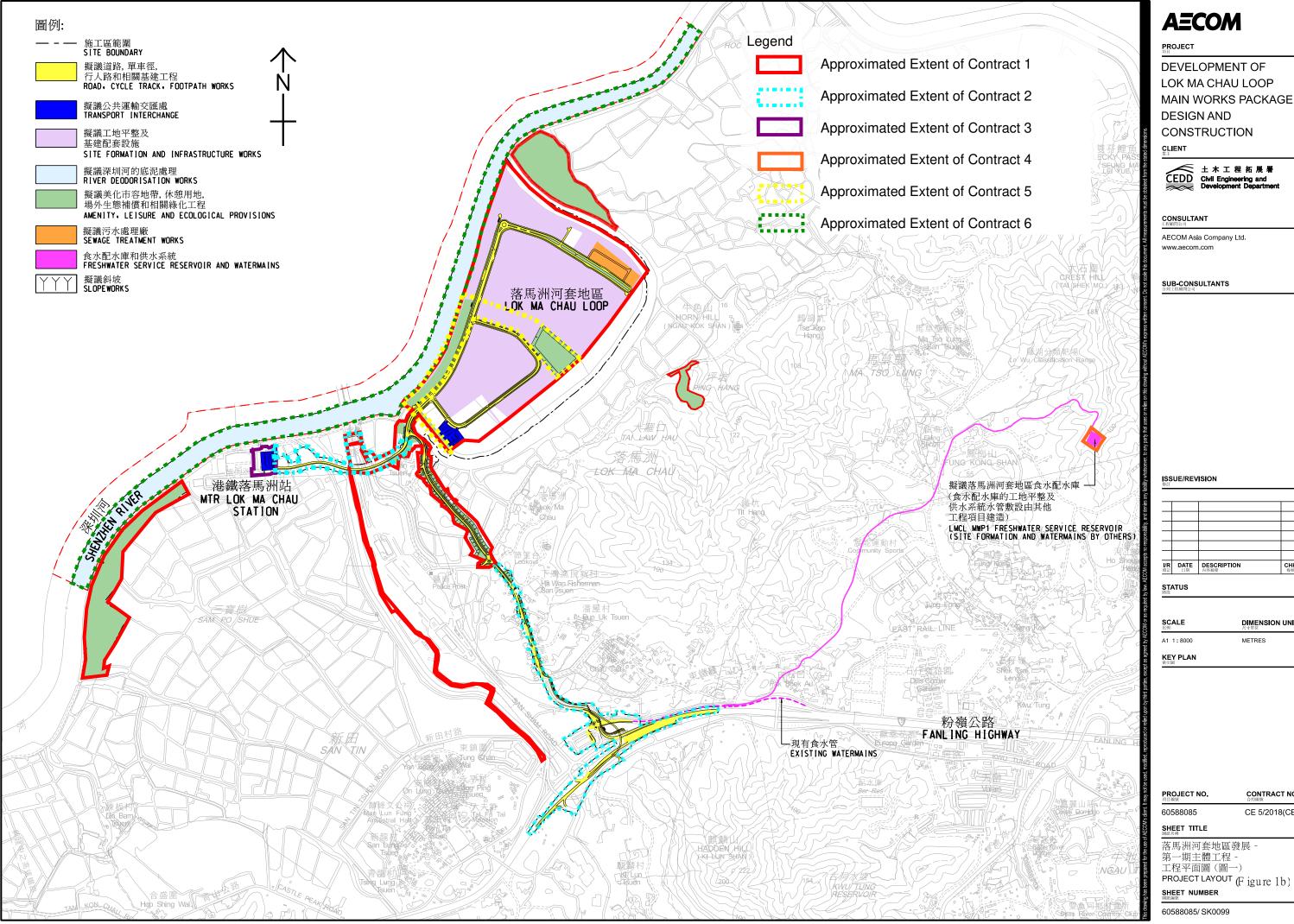
FIGURE(S)





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

## LAYOUT PLAN



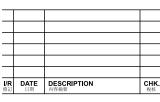
# AECOM

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.



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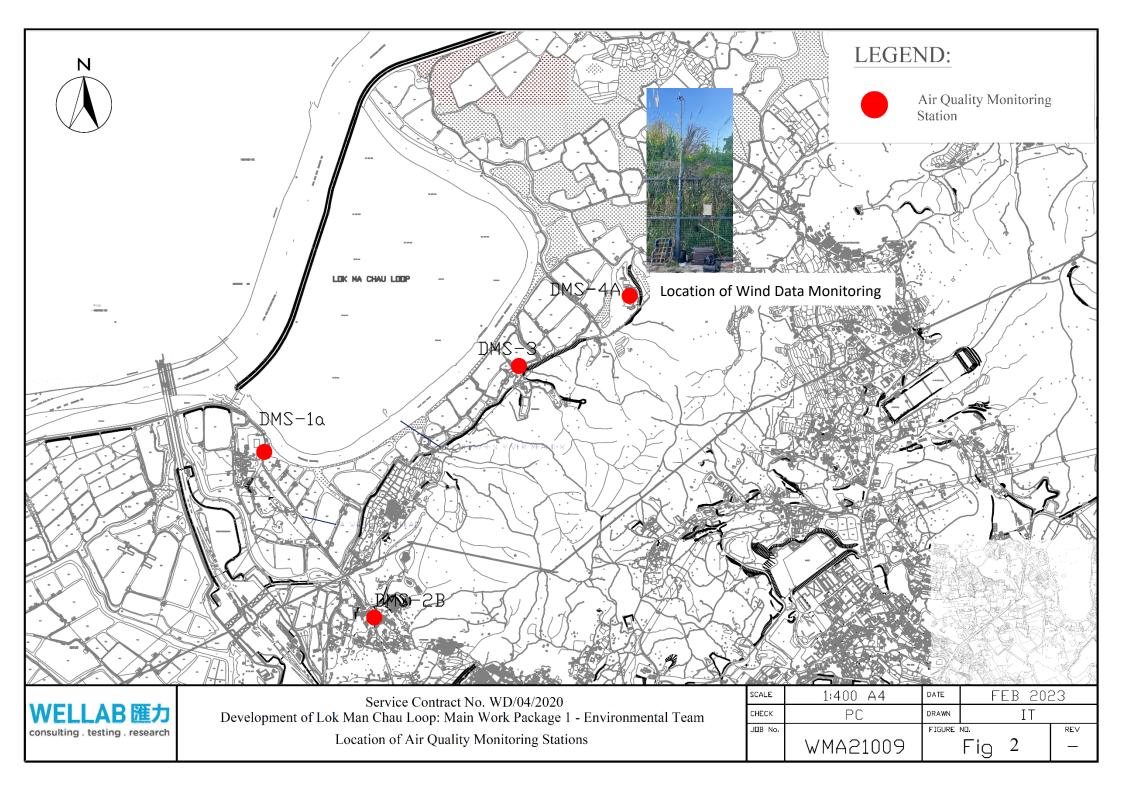
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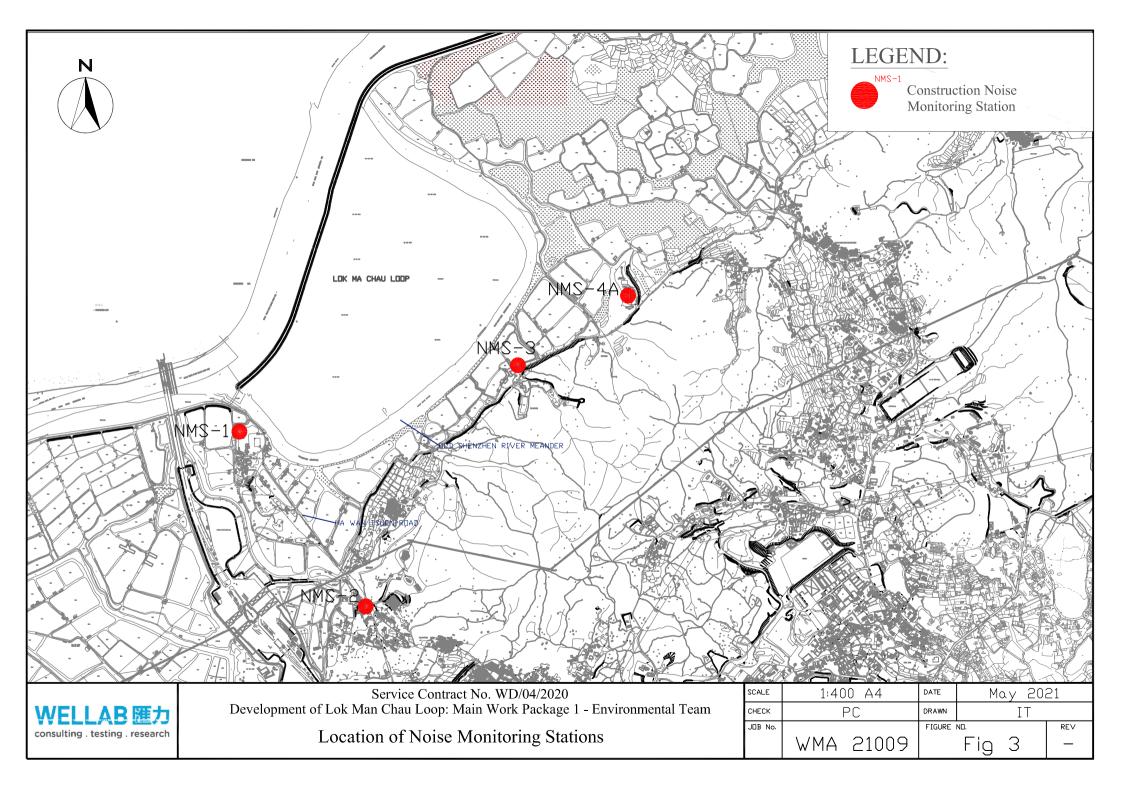
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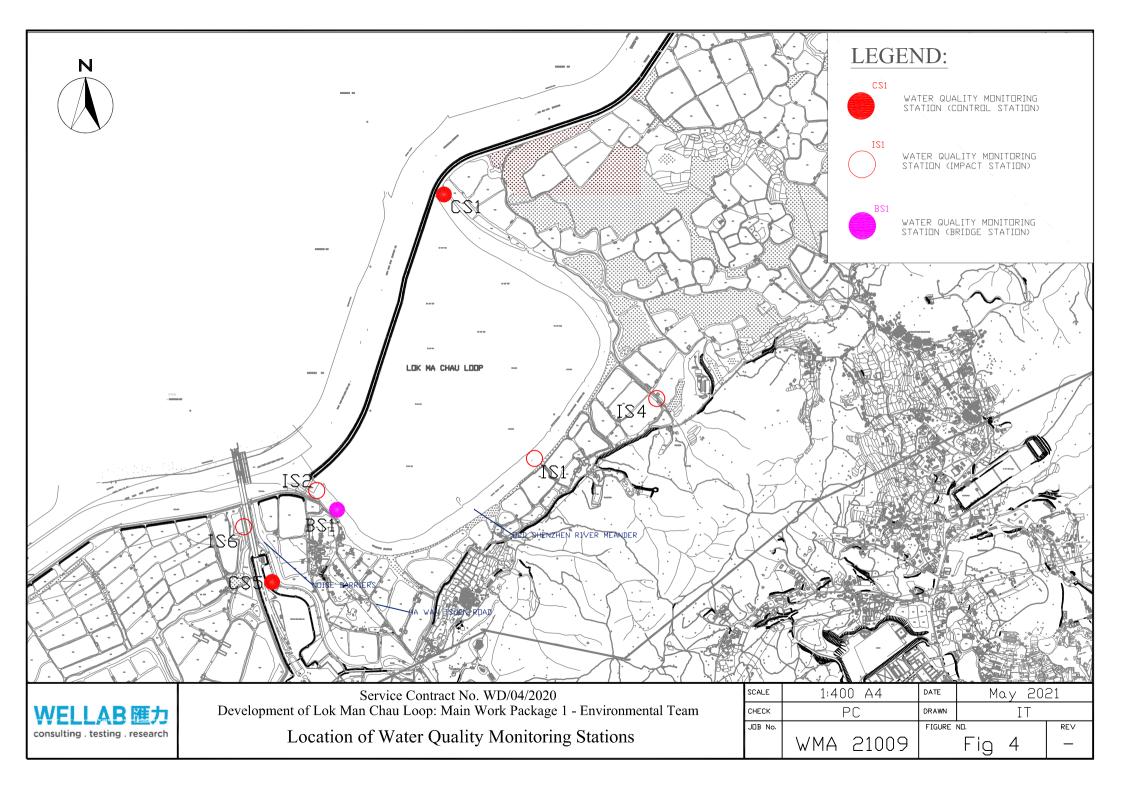
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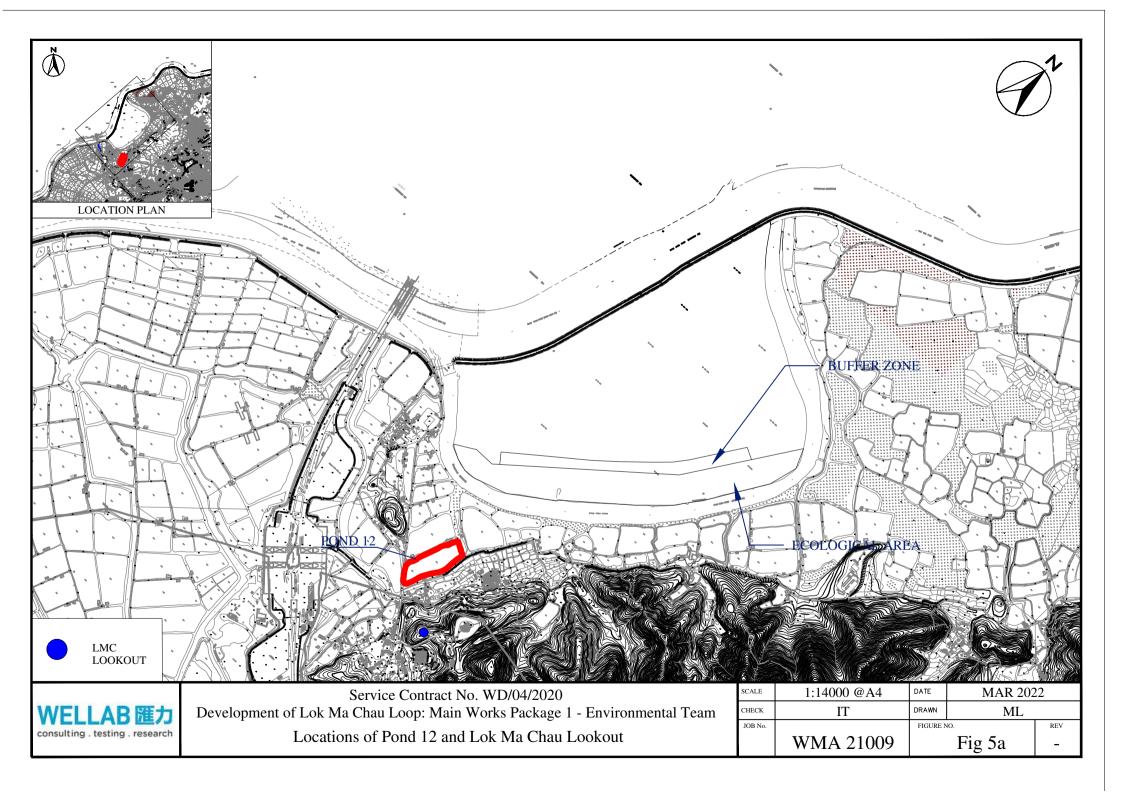
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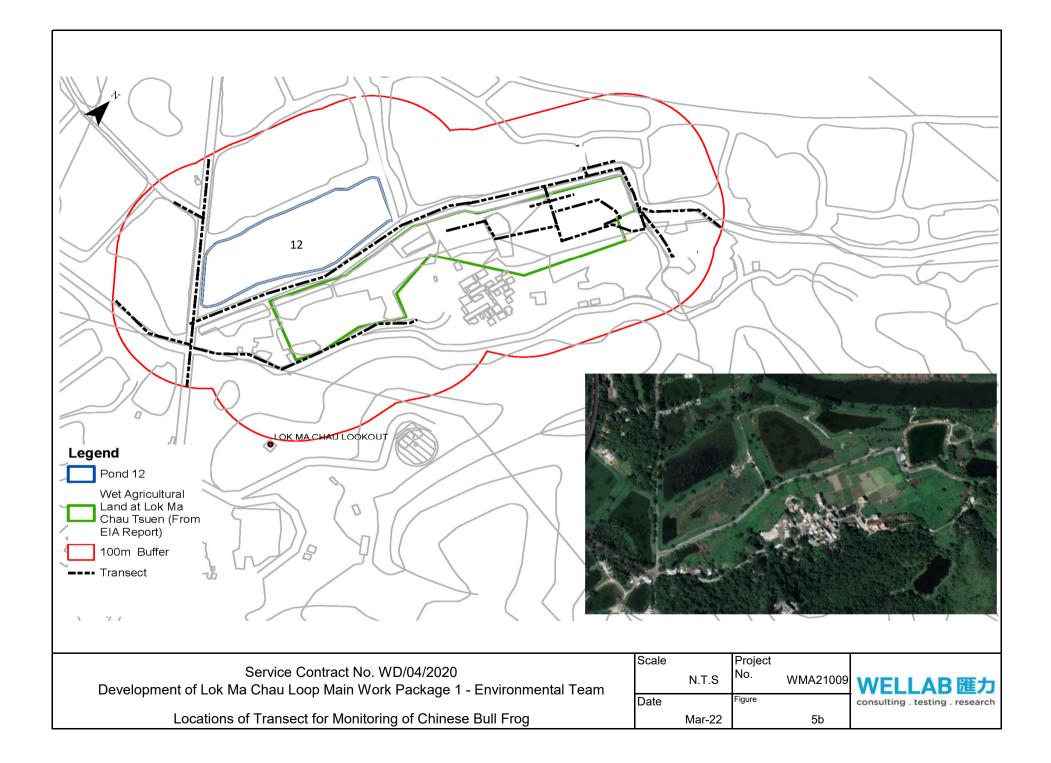
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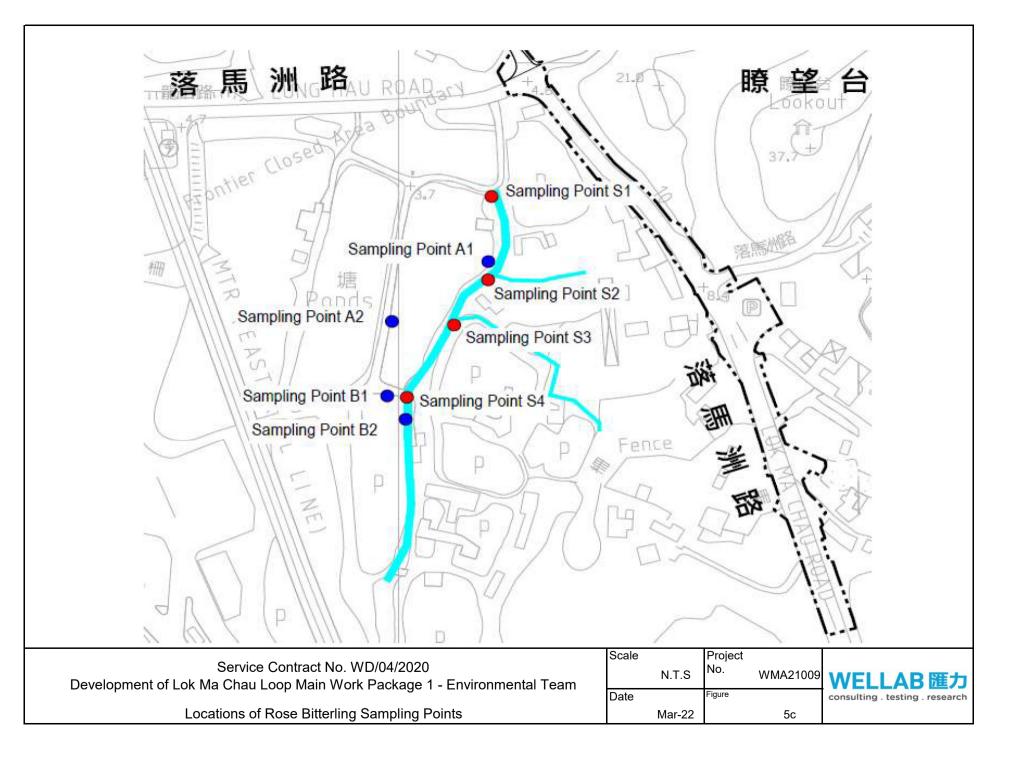


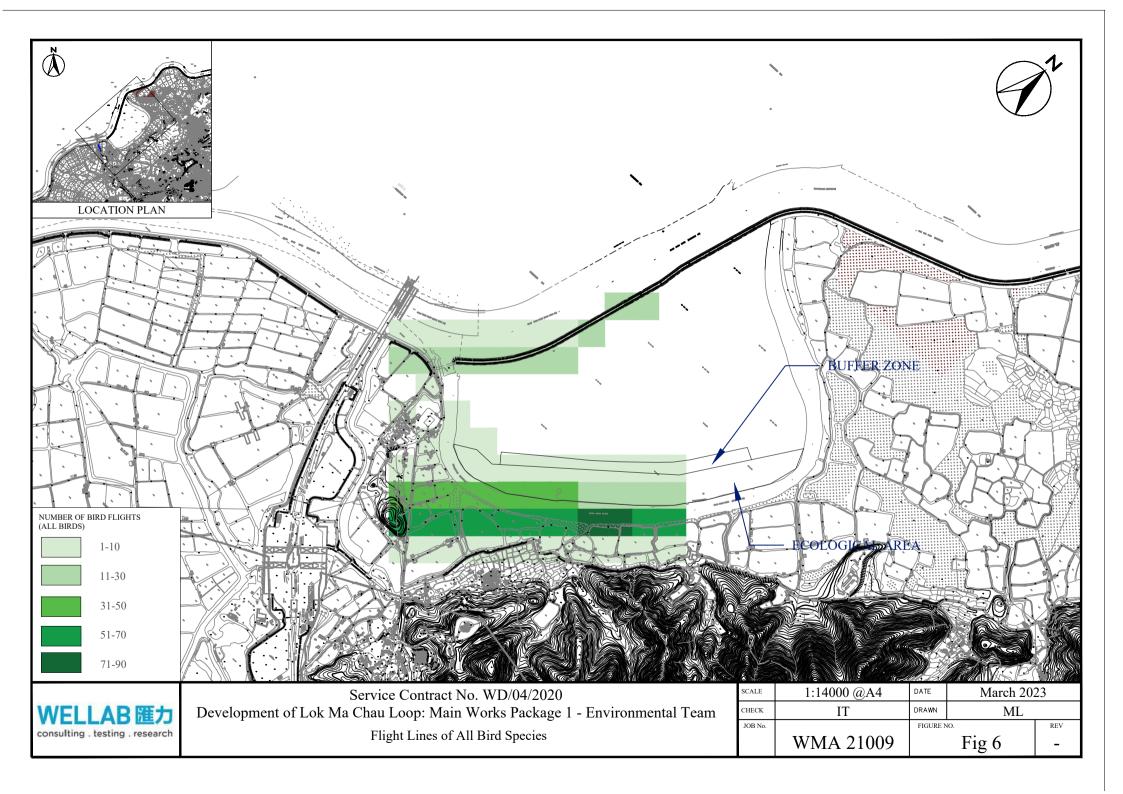












APPENDIX A CONSTRUCTION PROGRAMME Contract No. YL/2020/01 - Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 1 Site Formation and Infrastructure Works inside Lok Ma Chau Loop and Western Connection Road Phase 1

		Dur					Float	9 05
ontract N	lo. YL/2020/01 - Updated Programme (Feb 2023)	359	31-Aug-21 A	27-Apr-24	09-Aug-21	12-Nov-26	361	
ontract Dat		50	05-Feb-23 A	27-Mar-23	27-Mar-23	12-Nov-26	1325	
ontract Key		0	05-Feb-23 A	05-Feb-23 A	12-Nov-26	12-Nov-26		
CO1	KD1 (sd+570) - Complete of interim water mains tion Completions	0	27-Mar-23	05-Feb-23 A 27-Mar-23	27-Mar-23	12-Nov-26 27-Mar-23	0	♦ KD1 (sd+570)
609	Section S9 (sd+620d) - All the works in Portion 20 of the Site	0		27-Mar-23*		27-Mar-23	0	
anned Coi	mpletion Dates	157	22-Feb-22 A	04-May-23	18-Oct-21	11-Nov-26	501	
ompensatio	n Events (raised by Contractor)	191	22-Feb-22 A	30-Apr-23	18-Oct-21	17-Dec-21	-499	
E-2213	Emergency Hospital and Community Isolation & Treatment Facilities	191	22-Feb-22 A	30-Apr-23	18-Oct-21	17-Dec-21	-499	
	ger's Instruction (PMI)	116	22-Jun-22 A	04-May-23	17-Dec-21	11-Nov-26	501	
PMI No. 051 -	Construction of Box Culvert A1 (Portion 7, L1) and Box Culvert C (Whole) (Quotation) PMI No. 051 - PM Review and Reply	266 14	22-Jun-22 A 22-Jun-22 A	14-Mar-23	06-Oct-22 06-Oct-22	19-Oct-22 19-Oct-22	-146	
PMN-1140	Issue PMN for PMI051	0	22-JUIF22 A	14-Mar-23	00-001-22	19-Oct-22	- 140	· · · · · · · · · · · · · · · · · · ·
PMI No. 052 -	Construction of Road L1 (Portion 18C) and Associated Civil Works (Quotation)	239	20-Jul-22 A	15-Mar-23	19-Apr-23	03-May-23	49	
PMI052-120	PMI No. 052 - PM Review and Reply Issue PMN for PMI052	20	20-Jul-22 A	14-Mar-23	19-Apr-23	02-May-23	49	
PMN-1010 PMI No. 054 -	Construction of Road L1 and Associated HSITP Phase 1 Works (Quotation)	0 220	08-Aug-22 A	15-Mar-23 15-Mar-23	10-May-23	03-May-23 23-May-23	49 69	
PMI054-120	PMI No. 054 - PM Review and Reply	30	08-Aug-22 A	14-Mar-23	10-May-23	22-May-23	69	
PMN-1020	Issue PMN for PMI054	0		15-Mar-23		23-May-23	69	
PMI No. 057 -	Commence Civil Works in early March 2022 in connection with WCR (Quotation) PMI No. 057 - PM Review and Reply	43 43	02-Aug-22 A	14-Mar-23	29-Oct-26	11-Nov-26	1338	
	Carry-out Piling Works for the Construction of Box Culvert C (Whole) (Quotation)	76	02-Aug-22 A 09-Aug-22 A	14-Mar-23 03-Mar-23	29-Oct-26 19-Apr-22	11-Nov-26 20-Apr-22	-11338	
PMI066-120	PMI No. 066 - PM Review and Reply	28	09-Aug-22 A	02-Mar-23	19-Apr-22	19-Apr-22	-317	
PMN-1130	Issue PMN for PMI066	0	07. LL 00. A	03-Mar-23		20-Apr-22	-258	
PMI No. 068 - 1 PMI068-120	Carry-out Piling Works for Construction of Box Culvert A1 (From Ch0-120) (Quotation) PMI No. 068 - PM Review and Reply	85 14	27-Jul-22 A 27-Jul-22 A	16-Mar-23 15-Mar-23	03-Dec-22 03-Dec-22	17-Dec-22 16-Dec-22	-34 -89	
PMN-1120	Issue PMN for PMI068	0		16-Mar-23	0.00.22	17-Dec-22	-69	
	Construction of Box Culvert C (Whole) (Quotation)	79	02-Aug-22 A	03-Mar-23	18-Apr-22	20-Apr-22	-113	
PMI069-120	PMI No. 069 - PM Review and Reply	14	02-Aug-22 A	02-Mar-23	18-Apr-22	19-Apr-22	-317	· · · · · · · · · · · · · · · · · · ·
PMN-1110	Issue PMN for PMI069 Box Culvert C (Whole) by 31 July 2023 (Quotation)	0 65	12-Sep-22 A	03-Mar-23 03-Mar-23	18-Apr-22	20-Apr-22 20-Apr-22	-258 -113	
PMI075-120	PMI No. 075 - PM Review and Reply	14	12-Sep-22 A	02-Mar-23	18-Apr-22	19-Apr-22	-317	·
PMN-1050	Issue PMN for PMI075	0		03-Mar-23		20-Apr-22	-258	
PMI No. 076 - PMI076-120	Box Culvert A (CH 0 to 75) (Quotation) PMI No. 076 - PM Review and Reply	70 14	08-Sep-22 A	15-Mar-23 14-Mar-23	28-Oct-26 28-Oct-26	11-Nov-26	521 1337	
PMN-1060	Issue PMN for PMI076	0	08-Sep-22 A	14-1viar-23 15-Mar-23	20-001-20	11-Nov-26	1082	
PMI No. 079 -	Construction of Meander Bridge (Quotation)	61	23-Sep-22 A	03-Mar-23	26-Dec-21	28-Dec-21	-152	
PMI079-120	PMI No. 079 - PM Review and Reply	14	23-Sep-22 A	03-Mar-23	26-Dec-21	28-Dec-21	-430	
PMN-1070	Issue PMN for PMI079 Construction of the Road and Drainage Works at WCR	0	23-Feb-23 A	03-Mar-23 30-Mar-23	12-Apr-22	28-Dec-21 11-May-22	-345 -116	
PMI080-100	PMI No. 080 - Issued (22 Feb 2023)	0		23-Feb-23 A		12-Apr-22		
PMI080-110	PMI No. 080 - Quotation Preparation and Submission	21	24-Feb-23 A	16-Mar-23	12-Apr-22	27-Apr-22	-323	
PMI080-120	PMI No. 080 - PM Review and Reply nterim Site Office for Accommodating Contractor's Staff & Part of RSS (Quotation)	14 62	17-Mar-23 06-Oct-22 A	30-Mar-23 15-Mar-23	28-Apr-22 13-Oct-22	11-May-22 27-Oct-22	-323 -53	
PMI083-120	PMI No. 083 - PM Review and Reply	14	06-Oct-22 A	14-Mar-23	13-Oct-22	26-Oct-22	-139	
PMN-1080	Issue PMN for PMI083	0		15-Mar-23		27-Oct-22	-112	
	Asbestos Investigation and Abatement Works (If Necessary) at R113 (Quotation) PMI No. 085 - PM Review and Reply	50	05-Nov-22A	15-Mar-23	28-Oct-26	11-Nov-26	521	
PMI085-120 PMN-1090	Issue PMN for PMI085	14 0	05-Nov-22A	14-Mar-23 15-Mar-23	28-Oct-26	10-Nov-26 11-Nov-26	1337 1082	
PMI No. 086 -	Deletion of CLP Ducts, Joint Bays and Draw Pits at WCR and Road L1 (Quotation)	73	17-Sep-22 A	29-Mar-23	10-May-23	11-Nov-26	515	
PMI086-110	PMI No. 086 - Quotation Preparation and Submission	21	17-Sep-22 A	14-Mar-23	10-May-23	23-May-23	70	
PMI086-120 PMN-1100	PMI No. 086 - PM Review and Reply Issue PMN for PMI086	14 0	15-Mar-23	28-Mar-23 29-Mar-23	24-May-23	06-Jun-23 11-Nov-26	70 1070	
	Construction of Structure for Box Culvert C (Whole) and Box Culvert A1 (Part)	71	13-Jan-23 A	24-Mar-23	21-Jun-22	14-Jul-22	-253	· · · · · · · · · · · · · · · · · · ·
PMI092-110	PMI No. 092 - Quotation Preparation and Submission	21	13-Jan-23 A	10-Mar-23	21-Jun-22	30-Jun-22	-253	
PMI092-120	PMI No. 092 - PM Review and Reply Sewerage Works in Section of Road L1 (SOL R200 approximately Ch 1170 to Ch. 1430	14 163	11-Mar-23 17-Oct-22 A	24-Mar-23 28-Mar-23	01-Jul-22 23-Feb-23	14-Jul-22 22-Mar-23	-253 -6	
PMI099-110	PMI No. 099 - Quotation Preparation and Submission	21	17-Oct-22 A	14-Mar-23	23-Feb-23	08-Mar-23	-6	·····
PMI099-120	PMI No. 099 - PMI No. 099 - PM Review and Reply	14	15-Mar-23	28-Mar-23	09-Mar-23	22-Mar-23	-6	
	Design, Supply and Installation of Road Lighting w/in Road L1 Completed by 31 Jul 21	163 24	29-Oct-22 A	28-Mar-23	16-Jun-23	13-Jul-23	107	
PMI103-110 PMI103-120	PMI No. 103 - Quotation Preparation and Submission PMI No. 103 - PM Review and Reply	21 14	29-Oct-22 A 15-Mar-23	14-Mar-23 28-Mar-23	16-Jun-23 30-Jun-23	29-Jun-23 13-Jul-23	107 107	
PMI No. 104 -	Construction of Watermains in WCR to be completed by 31 October 2024	163	26-Oct-22 A	28-Mar-23	26-Feb-22	25-Mar-22	-368	
PMI104-110	PMI No. 104 - Quotation Preparation and Submission	21	26-Oct-22 A	14-Mar-23	26-Feb-22	11-Mar-22	-368	
PMI104-120	PMI No. 104 - PM Review and Reply Removal of Paving BLock in Constructed TAR3 and Re-use for Road L1	14 163	15-Mar-23 27-Oct-22 A	28-Mar-23 28-Mar-23	12-Mar-22 31-Mar-23	25-Mar-22 27-Apr-23	-368 30	
PMI107-110	PMI No. 107 - Quotation Preparation and Submission	21	27-Oct-22 A	14-Mar-23	31-Mar-23	13-Apr-23	30	·
PMI107-120	PMI No. 107 - PM Review and Reply	14	15-Mar-23	28-Mar-23	14-Apr-23	27-Apr-23	30	
	Demolition of Existing TAR3 for the Construction of Road L1	14	18-Nov-22A	14-Mar-23	22-Mar-23	04-Apr-23	21	
PMI108-120	PMI No. 108 - PM Review and Reply Construction of Irrigation System w/in Road L1 (Ch 1170-1430) Completed by 31 Jul 20/	14 163	18-Nov-22A 26-Oct-22A	14-Mar-23 28-Mar-23	22-Mar-23 22-Apr-23	04-Apr-23	21 52	· · · · · · · · · · · · · · · · · · ·
PMI109-110	PMI No. 109 - Quotation Preparation and Submission	21	26-Oct-22 A	14-Mar-23	22-Apr-23	05-May-23	52	·····
PMI109-120	PMI No. 109 - PM Review and Reply	14	15-Mar-23	28-Mar-23	06-May-23	19-May-23	52	
PMI No. 110 - (	Construction of Watermains for Flushing Water w/in Road L1 (Ch 1170-1430)	156	26-Oct-22 A	21-Mar-23	03-May-23	23-May-23	63	
	PMI No. 110 - Quotation Preparation and Submission	21	26-Oct-22 A	07-Mar-23*	03-May-23	09-May-23	63	



Actual Work

- Critical Remaining Work
- ♦♦ Milestone

Three Month Rolling Progra

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amm	е						Date : 01-A	pr-23/ Page	1 of 11			28-Feb-2	23   N	/IPR No. 20	)					

Remaining Work

/ ID	Activity Name	Orig Dur	Early Start	Early Finish	Late Start	Late Finish	Total Float	Feb 2 9 05
PMI No. 115 -	Interim Twin DN300 Watermain in lieu of Interim DN400 Watermain	94	31-Dec-22A	03-Apr-23	23-Dec-21	25-Jan-22	-433	
PMI115-110	PMI No. 115 - Quotation Preparation and Submission	21	31-Dec-22A	20-Mar-23	23-Dec-21	11-Jan-22	-433	
PMI115-120	PMI No. 115 - PM Review and Reply	14	21-Mar-23	03-Apr-23	12-Jan-22	25-Jan-22	-433	
	Construction of Drainage Works w/in Road L1 (CH.1170-1430) Completed by 31 Jul 202	88	22-Nov-22A	28-Mar-23	31-Mar-23	27-Apr-23	30	
PMI119-110 PMI119-120	PMI No. 119 - Quotation Preparation and Submission PMI No. 119 - PM Review and Reply	21 14	22-Nov-22A 15-Mar-23	14-Mar-23 28-Mar-23	31-Mar-23	13-Apr-23 27-Apr-23	30	
	• Revised Drainage Design with Road L1 (Ch1170-1430)	125	22-Nov-22A	20-11/1al -23	14-Apr-23 27-Mar-23	21-Apr-23	-5	
PMI120-110	PMI No. 120 - Quotation Preparation and Submission	21	22-Nov-22A	20-Mar-23	27-Mar-23	15-Apr-23	26	
PMI120-120	PMI No. 120 - PM Review and Reply	14	21-Apr-23	04-May-23	16-Apr-23	29-Apr-23	-5	
PMI No. 121 -	Provision of DN100 Watermain & Assoc. Plumbing & Make Water Supply Application H	14	25-Feb-23 A	10-Mar-23	14-May-23	23-May-23	74	
PMI121-120	PMI No. 121 - PM Review and Reply	14	25-Feb-23 A	10-Mar-23	14-May-23	23-May-23	74	
PMI No. 122 -	Revised Footing Design of Pai Lau at LMC Tsuen (Northern Footing)	74	01-Dec-22A	25-Mar-23	29-Jan-24	22-Feb-24	334	
PMI122-110	PMI No. 122 - Quotation Preparation and Submission	21	01-Dec-22A	14-Mar-23	29-Jan-24	11-Feb-24	334	· · · · · · · · · · · · · · · · · · ·
PMI122-120	PMI No. 122 - PM Review and Reply	14	01-Mar-23A	25-Mar-23	29-Jan-24	22-Feb-24	334	
	Lowering Down of Existing DN100 Watermain at Junction of TAR3 and EA Haul Road	85	24-Dec-22A	18-Mar-23	26-Oct-26	11-Nov-26	1334	
PMI125-110 PMI125-120	PMI No. 125 - Quotation Preparation and Submission PMI No. 125 - PM Review and Reply	21 14	24-Dec-22A 05-Mar-23	03-Mar-23 18-Mar-23	26-Oct-26 29-Oct-26	28-Oct-26 11-Nov-26	1335 1334	1
	Amendment to Meander Bridge Details	88	31-Dec-22A	28-Mar-23	29-00-20 28-Dec-21	24-Jan-22	-428	
PMI129-110	PMI No. 129 - Quotation Preparation and Submission	21	31-Dec-22A	14-Mar-23	28-Dec-21	10-Jan-22	-428	
PMI129-120	PMI No. 129 - PM Review and Reply	14	15-Mar-23	28-Mar-23	11-Jan-22	24-Jan-22	-428	
	Proposed DCM Ground Improvement within Part of the Loop	88	31-Dec-22A	28-Mar-23	22-Jan-22	18-Feb-22	-403	
PMI132-110	PMI No. 132 - Quotation Preparation and Submission	21	31-Dec-22A	14-Mar-23	22-Jan-22	04-Feb-22	-403	
PMI132-120	PMI No. 132 - PM Review and Reply	14	15-Mar-23	28-Mar-23	05-Feb-22	18-Feb-22	-403	
PMI No. 133 -	Relocation of Carpark of Project Managers Interim Office and Container Offices	21	09-Feb-23 A	14-Mar-23	14-Oct-22	27-Oct-22	-138	
PMI133-120	PMI No. 133 - PM Review and Reply	14	09-Feb-23 A	14-Mar-23	14-Oct-22	27-Oct-22	-138	
PMN-079	Issue PMN078 for PMI133 (6 Jan 2023)	1	01-Mar-23	01-Mar-23	27-Oct-22	27-Oct-22	-125	
	DCM Cluster Works next to DCM4 Area	70	07-Jan-23 A	17-Mar-23	17-Dec-21	02-Jan-22	-439	
PMI135-110	PMI No. 135 - Quotation Preparation and Submission	21	07-Jan-23 A	03-Mar-23	17-Dec-21	19-Dec-21	-439	
PMI135-120	PMI No. 135 - PM Review and Reply	14 81	04-Mar-23 12-Jan-23 A	17-Mar-23 28-Mar-23	20-Dec-21 28-Dec-21	02-Jan-22 24-Jan-22	-439 -428	
PMI136-110	Electrically Isolated Tendons for Interna Post-tensioning Tendons of Meander Bridge     PMI No. 136 - Quotation Preparation and Submission	21	12-Jan-23 A	14-Mar-23	28-Dec-21	10-Jan-22	-428	· · · · · · · · · · · · · · · · · · ·
PMI136-120	PMI No. 136 - PM Review and Reply	14	15-Mar-23	28-Mar-23	11-Jan-22	24-Jan-22	-420	· · · · · ·
	DN800 Fresh Water Main in lieu of DN700 Fresh Water Main (Quotation)	31	20-Feb-23 A	27-Mar-23	27-Feb-22	25-Mar-22	-130	
PMI137-100	PMI No. 137 - Issued (17 Feb 2023)	0		20-Feb-23 A		27-Feb-22		
PMI137-110	PMI No. 137 - Quotation Preparation and Submission	21	21-Feb-23 A	13-Mar-23	27-Feb-22	11-Mar-22	-367	
PMI137-120	PMI No. 137 - PM Review and Reply	14	14-Mar-23	27-Mar-23	12-Mar-22	25-Mar-22	-367	
PMI No. 143 -	Design, Supply and Installation of Road Lighting in Western Connection Road (Quotat	27	10-Feb-23 A	17-Mar-23	23-May-23	08-Jun-23	32	
PMI143-100	PMI No. 143 - Issued (4 Feb 2023)	0		10-Feb-23 A		23-May-23		♦ PMIN
PMI143-110	PMI No. 143 - Quotation Preparation and Submission	21	11-Feb-23 A	03-Mar-23	23-May-23	25-May-23	83	·
PMI143-120	PMI No. 143 - PM Review and Reply	14	04-Mar-23 20-Mar-23	17-Mar-23 23-Apr-23	26-May-23 18-Mar-23	08-Jun-23 11-Nov-26	83 506	
PMI150-100	vised Sewerage Design with Road L1 (CH 1170 to 1430) PMI No. 150 - Issued (20 Mar 2023)	0		20-Mar-23*		18-Mar-23	0	
PMI150-110	PMI No. 150 - Quotation Preparation and Submission	21	20-Mar-23	09-Apr-23	08-Oct-26	28-Oct-26	1298	
PMI150-120	PMI No. 150 - PM Review and Reply	14	10-Apr-23	23-Apr-23	29-Oct-26	11-Nov-26	1298	
reliminary	and Preparations	307	31-Aug-21 A	15-Dec-23	30-Nov-21	11-Nov-26	414	
Subletting		547	01-Sep-21 A	13-Jul-23	22-Feb-22	13-Jul-23	0	
PRE-310B	Subletting for Drainage and Roadworks for Road D1 (Under Closed Loop Management)	30	02-May-23	06-Jun-23	01-Apr-22	12-May-22	-316	
PRE-315	Subletting for Pipe Works	30	21-Feb-22 A	09-May-23	03-Mar-22	12-May-22	-293	
PRE-325	Subletting for Drainage Work and Roadwork for WCR	30	05-May-23	09-Jun-23	25-Apr-22	31-May-22	-303	
PRE-365	Subletting for Modification and Maintainance of Existing Boundary Patrol Road (Area Under Closed Loop Management)	30	02-May-23	06-Jun-23	23-Feb-22	29-Mar-22	-348	
PRE-385A	Subletting for Irrigation System (Road D1)	45	19-May-23	13-Jul-23	23-Apr-22	17-Jun-22	-316	
PRE-385B PRE-390B	Subletting for Irrigation System (Road L1 Ch 1170-1430) (PMI103, PMI109)	45 45	21-Apr-23 13-May-23	14-Jun-23 07-Jul-23	21-Apr-23 19-May-23	14-Jun-23 13-Jul-23	0	
PRE-390B PRE-395	Subletting for Road Lighting at Road L1 (Ch 1170-1430) (PMI103, PMI109) Subletting for E&M Works at STW	45	01-Sep-21 A	13-Jun-23	19-May-23 22-Feb-22	13-Jul-23 02-Apr-22	-350	
PRE-415A	Subletting for Civil Works for Utilities at Road D1 and Road L1	45	19-May-23	13-Jul-23	23-Apr-22	17-Jun-22	-316	
PRE-432	Subletting for Box Culvert (R.C. Works, OccupiedAreas)	28	20-Jan-22 A	09-Jun-23	21-Apr-22	25-Jul-22	-258	
PRE-433	Subletting for Box Culvert (Piling Works, Occupied Areas)	28	27-Jan-22 A	11-May-23	22-Feb-22	03-Mar-22	-349	
Design Subm	hissions for the Works	271	31-Aug-21 A	16-Sep-23	30-Nov-21	11-Nov-26	449	
PRE-435A	Prepare, Submit, Processing & Approval for Alternative Design for STW (On Hold)	255	31-Aug-21 A	16-Sep-23	16-Jul-22	01-Dec-22	-233	
PRE-455	Prepare, Submit, Processing & Approval for Noise Barrier for Public Transportation Interchange (PTI) (On Hold)	90	02-May-23	17-Aug-23	06-Sep-22	22-Dec-22	-189	
PRE-460	Prepare, Submit, Processing & Approval for MiC and its Foundation for ADB of STW (On Hold)	90	31-May-23	14-Sep-23	18-Jun-22	05-Oct-22	-280	
PRE-465 Interim Wateri	Approved Status of E&M Submissions for STW Batch 1	0 39	01-Mar-23	23-Jun-23* 19-Apr-23	30-Nov-21	16-Apr-22 15-Feb-22	-433 -345	
KD1-100	Interim Watermain - Design Preparation and Submission	18	01-Mar-23	21-Mar-23	30-Nov-21	20-Dec-21	-365	
KD1-110	Interim Watermain - Design PM review	14	22-Mar-23	11-Apr-23	17-Jan-22	07-Feb-22	-345	
KD1-120	Interim Watermain - Design Resubmission and Approval	7	12-Apr-23	19-Apr-23	08-Feb-22	15-Feb-22	-345	
Public Transp	port Interchange (PTI)	42	17-May-23	07-Jul-23	22-Sep-22	11-Nov-22	-189	
S7-497	PTI - Design for Foundation Temporary Works Preparation & Submission	21	17-May-23	10-Jun-23	22-Sep-22	18-Oct-22	-189	'
S7-498	PTI - Design for Foundation Temporary Works PM Review	21	12-Jun-23	07-Jul-23	19-Oct-22	11-Nov-22	-189	
S7-502	PTI - Design for Noise Barrier Preparation & Submission	21	17-May-23	10-Jun-23	22-Sep-22	18-Oct-22	-189	
S7-503	PTI - Design for Noise Barrier PM Review	21	12-Jun-23	07-Jul-23	19-Oct-22	11-Nov-22	-189	
TAR3	TAP 2 Design Approved	6	29-Mar-22A	14-Mar-23	15-May-23	28-May-23	75	
	TAR 3 - Design Approval	6 394	29-Mar-22A 17-May-22A	14-Mar-23	15-May-23 14-Dec-21	28-May-23 06-Jun-23	75 -4	· · · · · · · · · · · · · · · · · · ·
KD2-105A		0.04	17-Iviay-22 A		14-Dec-21	16-Dec-21	-4	
Meander Brid	·	6	17 May 20 A	(12 N/or / )				
Meander Brid KD7-613	Meander Bridge Pier Cap and Abutment Cofferdam - Design (Temporary Works) Resubmission	6 7	17-May-22 A 28-Nov-22 A	03-Mar-23 03-Mar-23				
Meander Brid	·	-	17-May-22 A 28-Nov-22 A 04-Mar-23	03-Mar-23 03-Mar-23 12-Apr-23	16-Dec-21 28-Feb-23	16-Dec-21 16-Dec-21 03-Apr-23	-353 -4	

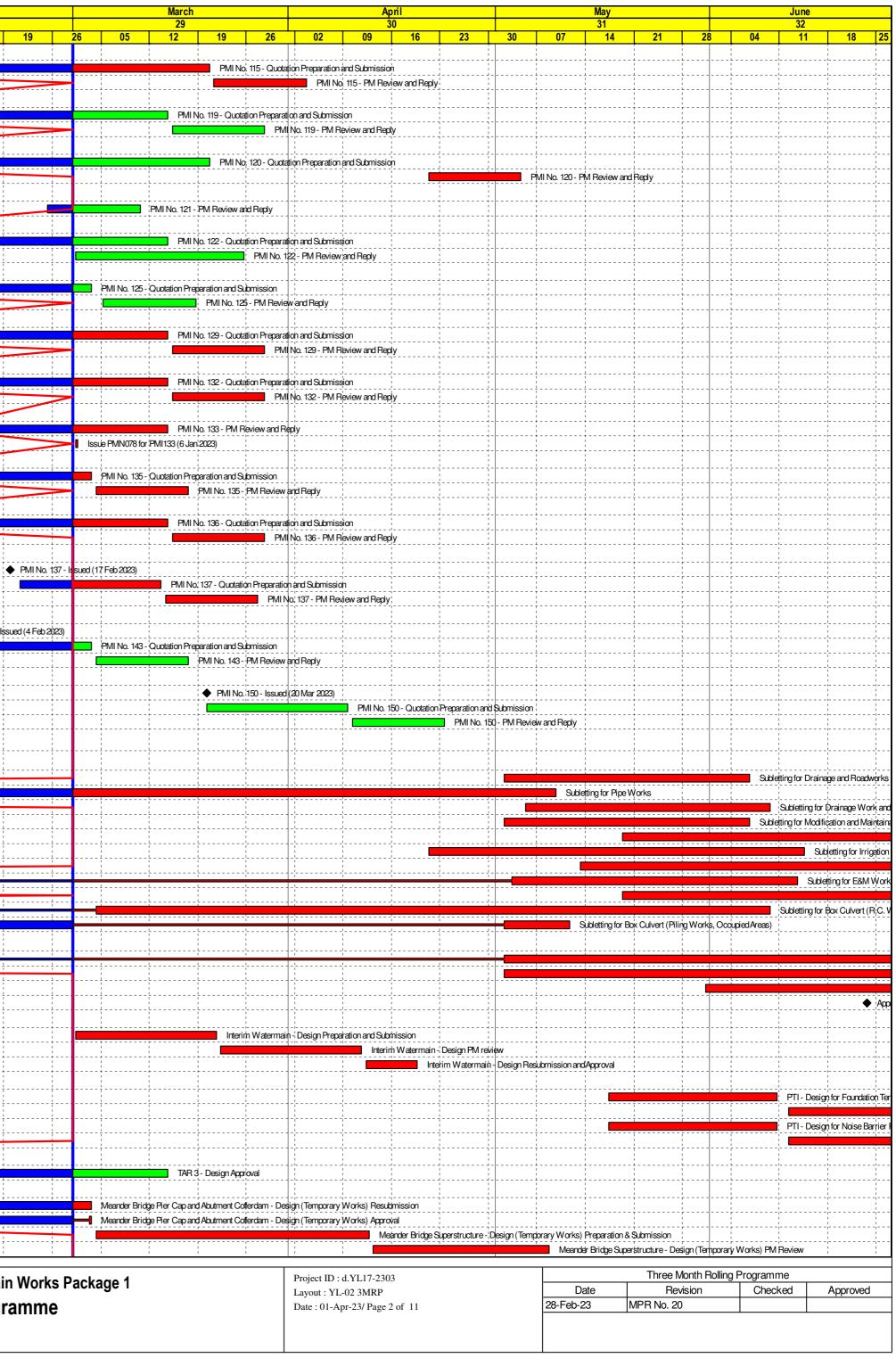


Actual Level of Effort

Actual WorkRemaining 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	F 9 05
KD7-619	Meander Bridge Superstructure - Design (Temporary Works) Resubmission	14	09-May-23	24-May-23	04-May-23	19-May-23	-4	<u>9 00 1</u>
<pre>{D7-620</pre>	Meander Bridge Superstructure - Design (Temporary Works) Approval	14	25-May-23	10-Jun-23	20-May-23	06-Jun-23	-4	
<d7-650< td=""><td>Meander Bridge (PMI No. 048) Revised Design Resubmission</td><td>9</td><td>01-Aug-22 A</td><td>06-Mar-23</td><td>17-Dec-21</td><td>22-Dec-21</td><td>-350</td><td></td></d7-650<>	Meander Bridge (PMI No. 048) Revised Design Resubmission	9	01-Aug-22 A	06-Mar-23	17-Dec-21	22-Dec-21	-350	
<d7-660< td=""><td>Meander Bridge (PMI No. 048) Design Approval</td><td>14</td><td>30-Aug-22 A</td><td>06-Mar-23</td><td>17-Dec-21</td><td>22-Dec-21</td><td>-350</td><td></td></d7-660<>	Meander Bridge (PMI No. 048) Design Approval	14	30-Aug-22 A	06-Mar-23	17-Dec-21	22-Dec-21	-350	
/estern Conn	nection Road (WCR)	29	05-Aug-22 A	18-Apr-23	25-Sep-26	11-Nov-26	1057	
36-9177	WCR - Design (Temporary Platform for DCM) Resubmission	14	05-Aug-22 A	28-Mar-23	25-Sep-26	26-Oct-26	1057	
6-9187	WCR - Design (Temporary Platform for DCM) Appr oval	14	22-Aug-22 A	18-Apr-23	27-Oct-26	11-Nov-26	1057	
ite Office		411	07-Feb-22 A	29-Jun-23	18-Dec-21	23-May-22	-326	·
	eption & Atrium Module	401	18-Feb-22 A	29-Jun-23	22-Feb-22	23-Apr-22	-349	
PRE-0895	Innchub - Schematic for Approval	12	18-Feb-22 A	11-May-23	22-Feb-22	03-Mar-22	-349	· · · · · · · · · · · · · · · · · · ·
PRE-0900	Inchub - Steel Structure Detail Design	12	18-Feb-22 A	11-May-23	22-Feb-22 22-Feb-22	03-Mar-22	-349	
PRE-0910	Imohub - Sacade Detail Design	25	18-Feb-22 A	27-May-23	04-Mar-22	29-Mar-22	-340	
PRE-0910 PRE-0915	Imonuo - Facade Detail Design Imonuo - MEP Detail Design	25	18-Feb-22 A	27-1viay-23 27-May-23	04-Mar-22 09-Mar-22	02-Apr-22	-340	
PRE-1005	Include - MEE Design	25	18-Feb-22 A	27-May-23 27-May-23	09-Mar-22	02-Apr-22	-336	
PRE-1005	Inchub - Interior Staircase Design and Procurement	31	23-May-23	27-1viay-23 29-Jun-23	15-Mar-22	23-Apr-22	-349	
		411	07-Feb-22 A	29-Jun-23	13-1viar-22 18-Dec-21	23-May-22	-349	
PM Site Office PRE-0919	PM Office - Foundation Design	25	11-Feb-22 A	31-May-23	18-Dec-21	19-Jan-22	-397	
PRE-0919		13	07-Feb-22 A	-	04-Mar-22	19-Jair-22 18-Mar-22	-349	
	PM Office - Steel Structure Detail Design			27-May-23				· J J J J J J J J J J
PRE-1055	PM Office - Exterior Staircase Design and Procurement	31	23-May-23	29-Jun-23	12-Apr-22	23-May-22	-326	·
ewage Treatr	TIENT WORKS	693	01-Sep-21 A	25-Jul-23	18-Feb-22	01-Jul-22	-389	
STW - E&M		693	01-Sep-21 A	25-Jul-23	18-Feb-22	01-Jul-22	-389	
PRE-EM005	Subletting for E&M Subcontractor at STW	122	01-Sep-21 A	13-Jun-23	18-Feb-22	02-Apr-22	-437	
PRE-EM010	Submit CV of Treatment Specialist	0	14-Jun-23		07-Apr-22		-433	
PRE-EM015	Design Team of E&M Subcontractor Move-in to LMCL S te Office	0	14-Jun-23*		29-Apr-22		-410	
Design Subm	nission Schedule	10	14-Jun-23	23-Jun-23	07-Apr-22	16-Apr-22	-433	
PRE-EM020	Preparation & Submission of Design Submission Schedule	10	14-Jun-23	23-Jun-23	07-Apr-22	16-Apr-22	-433	
PRE-EM030	Preparation & Submission of Drawing Submission Schedule	10	14-Jun-23	23-Jun-23	07-Apr-22	16-Apr-22	-433	
Equipment &	Material Submission Schedule	10	14-Jun-23	23-Jun-23	07-Apr-22	16-Apr-22	-433	
PRE-EM040	Preparation & Submission of Equipment & Material Submission Schedule	10	14-Jun-23	23-Jun-23	07-Apr-22	16-Apr-22	-433	
PRE-EM050	Preparation & Submission of Sample Submission Schedule	10	14-Jun-23	23-Jun-23	07-Apr-22	16-Apr-22	-433	
Inlet Works (	Primary Treatment System)	42	14-Jun-23	25-Jul-23	21-May-22	01-Jul-22	-389	
PRE-EM070	Preparation & Submission of Inlet Works (Primary Treatment System)	42	14-Jun-23	25-Jul-23	21-May-22	01-Jul-22	-389	
	mentation System	42	14-Jun-23	25-Jul-23	07-Apr-22	18-May-22	-433	
PRE-EM100	Preparation & Submission of Primary Sedimentation System	42	14-Jun-23	25-Jul-23	07-Apr-22	18-May-22	-433	
ox Culverts		129	30-Jul-22 A	08-Jul-23	19-Feb-22	05-Mar-23	-49	
	1 (0b 0 75)	29	30-Jul-22 A	06-Apr-23	09-Jan-23	17-Feb-23	-40	
Box Culvert A						ļ		
KD6-199	Box Culvert A1 (Portion 7,L1) - Design for Temporary Works Resubmission	15	30-Jul-22 A	25-Mar-23	09-Jan-23	07-Feb-23	-40	
KD6-200	Box Culvert A1 (Portion 7,L1) - Design for Temporary Works Approval	14	17-Aug-22 A	06-Apr-23	09-Jan-23	17-Feb-23	-40	
12A-102	1 (Ch 75-274.779)	56	02-May-23	08-Jul-23	09-Apr-22	02-Feb-23	-126	
	Box Culvert A1 (Portion 18A) - Design for Temporary Works Preparation and Submission (Area Occupied)	14	02-May-23	17-May-23	09-Apr-22	28-Apr-22	-310	
		~ ~						
12A-103	Box Culvert A1 (Portion 18A) - Design for Temporary Works PM Review	21	18-May-23	12-Jun-23	29-Apr-22	25-May-22	-310	
12A-103 12A-104	Box Culvert A1 (Portion 18A) - Design for Temporary Works Resubmission	7	13-Jun-23	20-Jun-23	26-May-22	02-Jun-22	-310	·
12A-103 12A-104 12A-105	Box Culvert A1 (Portion 18A) - Design for Temporary Works Resubmission Box Culvert A1 (Portion 18A) - Design for Temporary Works Approval	7 14	13-Jun-23 21-Jun-23	20-Jun-23 08-Jul-23	26-May-22 04-Jun-22	02-Jun-22 20-Jun-22	-310 -310	
12A-103 12A-104 12A-105 12C-107	Box Culvert A1 (Portion 18A) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18A) - Design for Temporary Works Approval         Box Culvert A1 (Portion 18C) - Design for Temporary Works Preparation and Submission (Area Occupied)	7 14 14	13-Jun-23 21-Jun-23 02-May-23	20-Jun-23 08-Jul-23 17-May-23	26-May-22 04-Jun-22 30-Nov-22	02-Jun-22 20-Jun-22 15-Dec-22	-310 -310 -119	
12A-103 12A-104 12A-105 12C-107 12C-108	Box Culvert A1 (Portion 18A) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18A) - Design for Temporary Works Approval         Box Culvert A1 (Portion 18C) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A1 (Portion 18C) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A1 (Portion 18C) - Design for Temporary Works PM Review	7 14 14 21	13-Jun-23 21-Jun-23 02-May-23 18-May-23	20-Jun-23 08-Jul-23 17-May-23 12-Jun-23	26-May-22 04-Jun-22 30-Nov-22 16-Dec-22	02-Jun-22 20-Jun-22 15-Dec-22 12-Jan-23	-310 -310 -119 -119	
12A-103 12A-104 12A-105 12C-107 12C-108 12C-109	Box Culvert A1 (Portion 18A) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18A) - Design for Temporary Works Approval         Box Culvert A1 (Portion 18C) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A1 (Portion 18C) - Design for Temporary Works PM Review         Box Culvert A1 (Portion 18C) - Design for Temporary Works PM Review         Box Culvert A1 (Portion 18C) - Design for Temporary Works Resubmission	7 14 14 21 7	13-Jun-23 21-Jun-23 02-May-23 18-May-23 13-Jun-23	20-Jun-23 08-Jul-23 17-May-23 12-Jun-23 20-Jun-23	26-May-22 04-Jun-22 30-Nov-22 16-Dec-22 13-Jan-23	02-Jun-22 20-Jun-22 15-Dec-22 12-Jan-23 20-Jan-23	-310 -310 -119 -119 -119	
12A-103 12A-104 12A-105 12C-107 12C-108 12C-109 12C-110	Box Culvert A1 (Portion 18A) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18A) - Design for Temporary Works Approval         Box Culvert A1 (Portion 18C) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A1 (Portion 18C) - Design for Temporary Works PM Review         Box Culvert A1 (Portion 18C) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18C) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18C) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18C) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18C) - Design for Temporary Works Resubmission	7 14 14 21 7 7	13-Jun-23 21-Jun-23 02-May-23 18-May-23 13-Jun-23 21-Jun-23	20-Jun-23 08-Jul-23 17-May-23 12-Jun-23 20-Jun-23 29-Jun-23	26-May-22 04-Jun-22 30-Nov-22 16-Dec-22 13-Jan-23 26-Jan-23	02-Jun-22 20-Jun-22 15-Dec-22 12-Jan-23 20-Jan-23 02-Feb-23	-310 -310 -119 -119 -119 -119 -119	
12A-103 12A-104 12A-105 12C-107 12C-108 12C-109 12C-110 Box Culvert A3	Box Culvert A1 (Portion 18A) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18A) - Design for Temporary Works Approval         Box Culvert A1 (Portion 18C) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A1 (Portion 18C) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A1 (Portion 18C) - Design for Temporary Works PM Review         Box Culvert A1 (Portion 18C) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18C) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18C) - Design for Temporary Works Approval         3	7 14 14 21 7 7 7 56	13-Jun-23 21-Jun-23 02-May-23 18-May-23 13-Jun-23 21-Jun-23 02-May-23	20-Jun-23 08-Jul-23 17-May-23 12-Jun-23 20-Jun-23 29-Jun-23 08-Jul-23	26-May-22 04-Jun-22 30-Nov-22 16-Dec-22 13-Jan-23 26-Jan-23 19-Feb-22	02-Jun-22 20-Jun-22 15-Dec-22 12-Jan-23 20-Jan-23 02-Feb-23 29-Apr-22	-310 -310 -119 -119 -119 -119 -119 -351	
12A-103 12A-104 12A-105 12C-107 12C-108 12C-109 12C-110 Box Culvert A3 12B-102	Box Culvert A1 (Portion 18A) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18A) - Design for Temporary Works Approval         Box Culvert A1 (Portion 18C) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A1 (Portion 18C) - Design for Temporary Works PM Review         Box Culvert A1 (Portion 18C) - Design for Temporary Works PM Review         Box Culvert A1 (Portion 18C) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18C) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18C) - Design for Temporary Works Approval         Box Culvert A3 (Portion 18C) - Design for Temporary Works Approval         Box Culvert A3 (Portion 18B) - Design for Temporary Works Preparation and Submission (Area Occupied)	7 14 14 21 7 7 7 56 14	13-Jun-23 21-Jun-23 02-May-23 18-May-23 13-Jun-23 21-Jun-23 02-May-23 02-May-23	20-Jun-23 08-Jul-23 17-May-23 12-Jun-23 20-Jun-23 29-Jun-23 08-Jul-23 17-May-23	26-May-22 04-Jun-22 30-Nov-22 16-Dec-22 13-Jan-23 26-Jan-23 19-Feb-22 19-Feb-22	02-Jun-22 20-Jun-22 15-Dec-22 12-Jan-23 20-Jan-23 02-Feb-23 29-Apr-22 07-Mar-22	-310 -310 -119 -119 -119 -119 -119 <b>-351</b> -351	
12A-103 12A-104 12A-105 12C-107 12C-108 12C-109 12C-110 Box Culvert A3 12B-102 12B-103	Box Culvert A1 (Portion 18A) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18A) - Design for Temporary Works Approval         Box Culvert A1 (Portion 18C) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A1 (Portion 18C) - Design for Temporary Works PM Review         Box Culvert A1 (Portion 18C) - Design for Temporary Works PM Review         Box Culvert A1 (Portion 18C) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18C) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18C) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18C) - Design for Temporary Works Approval         Box Culvert A3 (Portion 18B) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A3 (Portion 18B) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A3 (Portion 18B) - Design for Temporary Works PM Review	7 14 14 21 7 7 7 56 14 21	13-Jun-23 21-Jun-23 02-May-23 18-May-23 13-Jun-23 21-Jun-23 02-May-23 02-May-23 18-May-23	20-Jun-23 08-Jul-23 17-May-23 12-Jun-23 20-Jun-23 29-Jun-23 08-Jul-23 17-May-23 12-Jun-23	26-May-22 04-Jun-22 30-Nov-22 16-Dec-22 13-Jan-23 26-Jan-23 19-Feb-22 19-Feb-22 08-Mar-22	02-Jun-22 20-Jun-22 15-Dec-22 12-Jan-23 20-Jan-23 02-Feb-23 29-Apr-22 07-Mar-22 31-Mar-22	-310 -310 -119 -119 -119 -119 -119 -351 -351 -351	
12A-103 12A-104 12A-105 12C-107 12C-108 12C-109 12C-110 Box Culvert A3 12B-102 12B-103 12B-104	Box Culvert A1 (Portion 18A) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18A) - Design for Temporary Works Approval         Box Culvert A1 (Portion 18C) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A1 (Portion 18C) - Design for Temporary Works PM Review         Box Culvert A1 (Portion 18C) - Design for Temporary Works PM Review         Box Culvert A1 (Portion 18C) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18C) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18C) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18C) - Design for Temporary Works Approval         Box Culvert A3 (Portion 18B) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A3 (Portion 18B) - Design for Temporary Works PM Review         Box Culvert A3 (Portion 18B) - Design for Temporary Works Resubmission	7 14 14 21 7 7 56 14 21 7	13-Jun-23 21-Jun-23 02-May-23 18-May-23 13-Jun-23 21-Jun-23 02-May-23 18-May-23 18-May-23 13-Jun-23	20-Jun-23 08-Jul-23 17-May-23 12-Jun-23 20-Jun-23 08-Jul-23 17-May-23 12-Jun-23 12-Jun-23 20-Jun-23	26-May-22 04-Jun-22 30-Nov-22 16-Dec-22 13-Jan-23 26-Jan-23 19-Feb-22 19-Feb-22 08-Mar-22 01-Apr-22	02-Jun-22 20-Jun-22 15-Dec-22 12-Jan-23 20-Jan-23 02-Feb-23 29-Apr-22 07-Mar-22 31-Mar-22 09-Apr-22	-310 -310 -119 -119 -119 -119 -119 -351 -351 -351 -351	
12A-103 12A-104 12A-105 12C-107 12C-108 12C-109 12C-110 Box Culvert A3 12B-102 12B-103 12B-104 12B-106	Box Culvert A1 (Portion 18A) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18A) - Design for Temporary Works Approval         Box Culvert A1 (Portion 18C) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A1 (Portion 18C) - Design for Temporary Works PM Review         Box Culvert A1 (Portion 18C) - Design for Temporary Works PM Review         Box Culvert A1 (Portion 18C) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18C) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18C) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18C) - Design for Temporary Works Approval         Box Culvert A3 (Portion 18B) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A3 (Portion 18B) - Design for Temporary Works PM Review         Box Culvert A3 (Portion 18B) - Design for Temporary Works Resubmission         Box Culvert A3 (Portion 18B) - Design for Temporary Works Resubmission         Box Culvert A3 (Portion 18B) - Design for Temporary Works Resubmission         Box Culvert A3 (Portion 18B) - Design for Temporary Works Resubmission         Box Culvert A3 (Portion 18B) - Design for Temporary Works Resubmission         Box Culvert A3 (Portion 18B) - Design for Temporary Works Resubmission         Box Culvert A3 (Portion 18B) - Design for Temporary Works Approval	7 14 14 21 7 7 56 14 21 7 14	13-Jun-23 21-Jun-23 02-May-23 18-May-23 13-Jun-23 21-Jun-23 02-May-23 18-May-23 13-Jun-23 21-Jun-23	20-Jun-23 08-Jul-23 17-May-23 12-Jun-23 20-Jun-23 08-Jul-23 17-May-23 12-Jun-23 20-Jun-23 08-Jul-23	26-May-22 04-Jun-22 30-Nov-22 16-Dec-22 13-Jan-23 26-Jan-23 19-Feb-22 08-Mar-22 01-Apr-22 11-Apr-22	02-Jun-22 20-Jun-22 15-Dec-22 12-Jan-23 20-Jan-23 02-Feb-23 29-Apr-22 07-Mar-22 09-Apr-22 29-Apr-22 29-Apr-22	-310 -310 -119 -119 -119 -119 -351 -351 -351 -351 -351	
12A-103 12A-104 12A-105 12C-107 12C-108 12C-109 12C-110 <b>Box Culvert A3</b> 12B-102 12B-103 12B-104 12B-106 <b>Box Culvert C</b>	Box Culvert A1 (Portion 18A) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18A) - Design for Temporary Works Approval         Box Culvert A1 (Portion 18C) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A1 (Portion 18C) - Design for Temporary Works PM Review         Box Culvert A1 (Portion 18C) - Design for Temporary Works PM Review         Box Culvert A1 (Portion 18C) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18C) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18C) - Design for Temporary Works Approval         3         Box Culvert A3 (Portion 18B) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A3 (Portion 18B) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A3 (Portion 18B) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A3 (Portion 18B) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A3 (Portion 18B) - Design for Temporary Works Resubmission         Box Culvert A3 (Portion 18B) - Design for Temporary Works Resubmission         Box Culvert A3 (Portion 18B) - Design for Temporary Works Resubmission         Box Culvert A3 (Portion 18B) - Design for Temporary Works Approval	7 14 21 7 7 56 14 21 7 7 14 14	13-Jun-23 21-Jun-23 02-May-23 13-Jun-23 21-Jun-23 02-May-23 02-May-23 18-May-23 13-Jun-23 21-Jun-23 21-Jun-23	20-Jun-23 08-Jul-23 17-May-23 12-Jun-23 20-Jun-23 29-Jun-23 08-Jul-23 17-May-23 12-Jun-23 20-Jun-23 08-Jul-23 08-Jul-23	26-May-22 04-Jun-22 30-Nov-22 16-Dec-22 13-Jan-23 26-Jan-23 19-Feb-22 19-Feb-22 08-Mar-22 01-Apr-22 11-Apr-22 28-Feb-23	02-Jun-22 20-Jun-22 15-Dec-22 12-Jan-23 20-Jan-23 02-Feb-23 29-Apr-22 07-Mar-22 31-Mar-22 09-Apr-22 29-Apr-22 05-Mar-23	-310 -310 -119 -119 -119 -119 -351 -351 -351 -351 -351 -351 -351	
12A-103 12A-104 12A-105 12C-107 12C-108 12C-109 12C-110 <b>Box Culvert A3</b> 12B-102 12B-103 12B-104 12B-106 <b>Box Culvert C</b> S9-205	Box Culvert A1 (Portion 18A) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18A) - Design for Temporary Works Approval         Box Culvert A1 (Portion 18C) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A1 (Portion 18C) - Design for Temporary Works PM Review         Box Culvert A1 (Portion 18C) - Design for Temporary Works PM Review         Box Culvert A1 (Portion 18C) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18C) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18C) - Design for Temporary Works Approval         Box Culvert A3 (Portion 18B) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A3 (Portion 18B) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A3 (Portion 18B) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A3 (Portion 18B) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A3 (Portion 18B) - Design for Temporary Works Resubmission         Box Culvert A3 (Portion 18B) - Design for Temporary Works Resubmission         Box Culvert A3 (Portion 18B) - Design for Temporary Works Approval         Box Culvert C (Portion 20) - Design for Temporary Works Approval	7 14 21 7 7 56 14 21 7 56 14 21 7 14 14 14	13-Jun-23 21-Jun-23 02-May-23 18-May-23 13-Jun-23 21-Jun-23 02-May-23 02-May-23 18-May-23 13-Jun-23 21-Jun-23 21-Jun-23 16-Aug-22 A	20-Jun-23 08-Jul-23 17-May-23 12-Jun-23 20-Jun-23 29-Jun-23 08-Jul-23 12-Jun-23 12-Jun-23 08-Jul-23 08-Jul-23 06-Mar-23	26-May-22 04-Jun-22 30-Nov-22 16-Dec-22 13-Jan-23 26-Jan-23 19-Feb-22 08-Mar-22 01-Apr-22 01-Apr-22 11-Apr-22 28-Feb-23 28-Feb-23	02-Jun-22 20-Jun-22 15-Dec-22 12-Jan-23 20-Jan-23 02-Feb-23 29-Apr-22 07-Mar-22 31-Mar-22 09-Apr-22 29-Apr-22 05-Mar-23 05-Mar-23	-310 -310 -119 -119 -119 -119 -351 -351 -351 -351 -351 -351 -351 -351	
12A-103 12A-104 12A-105 12C-107 12C-108 12C-109 12C-110 <b>Box Culvert A3</b> 12B-102 12B-103 12B-104 12B-106 <b>Box Culvert C</b> S9-205	Box Culvert A1 (Portion 18A) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18A) - Design for Temporary Works Approval         Box Culvert A1 (Portion 18C) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A1 (Portion 18C) - Design for Temporary Works PM Review         Box Culvert A1 (Portion 18C) - Design for Temporary Works PM Review         Box Culvert A1 (Portion 18C) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18C) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18C) - Design for Temporary Works Approval         Box Culvert A3 (Portion 18B) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A3 (Portion 18B) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A3 (Portion 18B) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A3 (Portion 18B) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A3 (Portion 18B) - Design for Temporary Works Resubmission         Box Culvert A3 (Portion 18B) - Design for Temporary Works Resubmission         Box Culvert A3 (Portion 18B) - Design for Temporary Works Approval         Box Culvert C (Portion 20) - Design for Temporary Works Approval	7 14 21 7 7 56 14 21 7 7 14 14	13-Jun-23 21-Jun-23 02-May-23 13-Jun-23 21-Jun-23 02-May-23 02-May-23 18-May-23 13-Jun-23 21-Jun-23 21-Jun-23	20-Jun-23 08-Jul-23 17-May-23 12-Jun-23 20-Jun-23 29-Jun-23 08-Jul-23 17-May-23 12-Jun-23 20-Jun-23 08-Jul-23 08-Jul-23	26-May-22 04-Jun-22 30-Nov-22 16-Dec-22 13-Jan-23 26-Jan-23 19-Feb-22 19-Feb-22 08-Mar-22 01-Apr-22 11-Apr-22 28-Feb-23	02-Jun-22 20-Jun-22 15-Dec-22 12-Jan-23 20-Jan-23 02-Feb-23 29-Apr-22 07-Mar-22 31-Mar-22 09-Apr-22 29-Apr-22 05-Mar-23	-310 -310 -119 -119 -119 -119 -351 -351 -351 -351 -351 -351 -351	
12A-103 12A-104 12A-105 12C-107 12C-108 12C-109 12C-110 Box Culvert A3 12B-102 12B-103 12B-104 12B-106 Box Culvert C S9-205	Box Culvert A1 (Portion 18A) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18A) - Design for Temporary Works Approval         Box Culvert A1 (Portion 18C) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A1 (Portion 18C) - Design for Temporary Works PM Review         Box Culvert A1 (Portion 18C) - Design for Temporary Works PM Review         Box Culvert A1 (Portion 18C) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18C) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18C) - Design for Temporary Works Approval         Box Culvert A3 (Portion 18B) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A3 (Portion 18B) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A3 (Portion 18B) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A3 (Portion 18B) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A3 (Portion 18B) - Design for Temporary Works Resubmission         Box Culvert A3 (Portion 18B) - Design for Temporary Works Resubmission         Box Culvert A3 (Portion 18B) - Design for Temporary Works Approval         Box Culvert C (Portion 20) - Design for Temporary Works Approval	7 14 21 7 7 56 14 21 7 56 14 21 7 14 14 14	13-Jun-23 21-Jun-23 02-May-23 18-May-23 13-Jun-23 21-Jun-23 02-May-23 02-May-23 18-May-23 13-Jun-23 21-Jun-23 21-Jun-23 16-Aug-22 A	20-Jun-23 08-Jul-23 17-May-23 12-Jun-23 20-Jun-23 29-Jun-23 08-Jul-23 12-Jun-23 12-Jun-23 08-Jul-23 08-Jul-23 06-Mar-23	26-May-22 04-Jun-22 30-Nov-22 16-Dec-22 13-Jan-23 26-Jan-23 19-Feb-22 08-Mar-22 01-Apr-22 01-Apr-22 11-Apr-22 28-Feb-23 28-Feb-23	02-Jun-22 20-Jun-22 15-Dec-22 12-Jan-23 20-Jan-23 02-Feb-23 29-Apr-22 07-Mar-22 31-Mar-22 09-Apr-22 29-Apr-22 05-Mar-23 05-Mar-23	-310 -310 -119 -119 -119 -119 -351 -351 -351 -351 -351 -351 -351 -351	
12A-103 12A-104 12A-105 12C-107 12C-108 12C-109 12C-110 Box Culvert A3 12B-102 12B-103 12B-104 12B-106 Box Culvert C S9-205	Box Culvert A1 (Portion 18A) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18A) - Design for Temporary Works Approval         Box Culvert A1 (Portion 18C) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A1 (Portion 18C) - Design for Temporary Works PM Review         Box Culvert A1 (Portion 18C) - Design for Temporary Works PM Review         Box Culvert A1 (Portion 18C) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18C) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18C) - Design for Temporary Works Approval         Box Culvert A3 (Portion 18B) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A3 (Portion 18B) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A3 (Portion 18B) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A3 (Portion 18B) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A3 (Portion 18B) - Design for Temporary Works Resubmission         Box Culvert A3 (Portion 18B) - Design for Temporary Works Resubmission         Box Culvert A3 (Portion 18B) - Design for Temporary Works Approval         Box Culvert C (Portion 20) - Design for Temporary Works Approval	7 14 14 21 7 7 56 14 21 7 14 21 7 14 14 14	13-Jun-23 21-Jun-23 02-May-23 18-May-23 13-Jun-23 21-Jun-23 02-May-23 18-May-23 13-Jun-23 21-Jun-23 21-Jun-23 16-Aug-22 A 16-Aug-22 A 01-Mar-23	20-Jun-23 08-Jul-23 17-May-23 12-Jun-23 20-Jun-23 08-Jul-23 12-Jun-23 12-Jun-23 20-Jun-23 08-Jul-23 08-Jul-23 06-Mar-23 06-Mar-23 02-Aug-23	26-May-22 04-Jun-22 30-Nov-22 16-Dec-22 13-Jan-23 26-Jan-23 19-Feb-22 08-Mar-22 01-Apr-22 11-Apr-22 28-Feb-23 28-Feb-23 30-May-22	02-Jun-22 20-Jun-22 15-Dec-22 12-Jan-23 20-Jan-23 02-Feb-23 29-Apr-22 07-Mar-22 09-Apr-22 29-Apr-22 05-Mar-23 05-Mar-23 15-Jun-23	-310 -310 -119 -119 -119 -119 -351 -351 -351 -351 -351 -351 -351 -351	
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12A-103 12A-104 12A-105 12C-107 12C-108 12C-109 12C-109 12C-109 12C-109 12C-109 12C-100 <b>Box Culvert A3</b> 12B-103 12B-104 12B-104 12B-104 12B-106 <b>Box Culvert C</b> S9-205 <b>Box Culvert C</b> <b>Box Culvert C</b> S9-205 <b>Box Culvert C</b> <b>Box Culver</b>	Box Culvert A1 (Portion 18A) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18A) - Design for Temporary Works Approval         Box Culvert A1 (Portion 18C) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A1 (Portion 18C) - Design for Temporary Works PM Review         Box Culvert A1 (Portion 18C) - Design for Temporary Works PM Review         Box Culvert A1 (Portion 18C) - Design for Temporary Works Resubmission         Box Culvert A3 (Portion 18C) - Design for Temporary Works Approval         Box Culvert A3 (Portion 18B) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A3 (Portion 18B) - Design for Temporary Works PM Review         Box Culvert A3 (Portion 18B) - Design for Temporary Works PM Review         Box Culvert A3 (Portion 18B) - Design for Temporary Works Resubmission         Box Culvert A3 (Portion 18B) - Design for Temporary Works Approval         Box Culvert A3 (Portion 18B) - Design for Temporary Works Approval         Box Culvert C (Portion 20) - Design for Temporary Works Approval         Box Culvert C (Portion 20) - Design for Temporary Works Approval         RW1 - Design for Temporary Works PR epar ation & Submission         RW1 - Design for Temporary Works Resubmission         RW1 - Design for Temporary Works Resubmission         RW4 - Design for Temporary Works Reparation & Submission         RW4 - Design for Temporary Works RM eparation & Submission	7         14         14         21         7         7         56         14         21         7         14         21         7         14         21         7         14         21         7         14         14         14         14         14         125         47         19         14         7         30         21         7         30         21         7         30         21         7         30         21         7         30         31	13-Jun-23 21-Jun-23 02-May-23 13-Jun-23 21-Jun-23 02-May-23 02-May-23 13-Jun-23 13-Jun-23 21-Jun-23 21-Jun-23 21-Jun-23 01-Mar-23 01-Mar-23 23-Mar-23 23-Mar-23 21-Apr-23 24-Mar-23 24-Mar-23 24-Mar-23 04-May-23 30-May-23 30-May-23 07-Jun-23	20-Jun-23 08-Jul-23 17-May-23 12-Jun-23 20-Jun-23 29-Jun-23 08-Jul-23 12-Jun-23 12-Jun-23 08-Jul-23 08-Jul-23 06-Mar-23 06-Mar-23 06-Mar-23 12-Apr-23 28-Apr-23 28-Apr-23 28-Apr-23 28-Apr-23 28-Apr-23 28-Apr-23 28-Apr-23 28-Apr-23 28-Apr-23 28-Apr-23 28-Apr-23 28-Apr-23 28-Apr-23 28-Apr-23 28-Apr-23 28-Apr-23 28-Apr-23 29-May-23 06-Jun-23 04-May-23 04-May-23 04-May-23	26-May-22 04-Jun-22 30-Nov-22 16-Dec-22 13-Jan-23 26-Jan-23 19-Feb-22 08-Mar-22 01-Apr-22 01-Apr-22 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 22-Dec-22 17-Jan-23 07-Feb-23 15-Feb-23 22-Oct-22 26-Nov-22 21-Dec-22 31-Dec-22 31-Dec-22 15-Apr-23 22-May-23	02-Jun-22 20-Jun-22 15-Dec-22 12-Jan-23 20-Jan-23 02-Feb-23 29-Apr-22 07-Mar-22 09-Apr-22 09-Apr-22 29-Apr-22 06-Mar-23 05-Mar-23 15-Jun-23 22-Feb-23 14-Feb-23 23-Dec-22 17-Jan-23 15-Jun-23	-310 -310 -119 -119 -119 -351 -351 -351 -351 -351 -351 -351 -351	
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12A-103       12A-104       12A-105       12C-107       12C-108       12C-109       12C-101       BOX Culvent A3       12B-102       12B-103       12B-104       12B-105       BOX Culvent C       S9-205       etaining Wall       RW-140       RW-150       RW-160       RW-160       RW-410       RW-410       RW-410       RW-430       RW-500       RW-500       RW-510	Box Culvert A1 (Portion 18A) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18A) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A1 (Portion 18C) - Design for Temporary Works PM Review         Box Culvert A1 (Portion 18C) - Design for Temporary Works PM Review         Box Culvert A1 (Portion 18C) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18C) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18D) - Design for Temporary Works Approval         Box Culvert A3 (Portion 18B) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A3 (Portion 18B) - Design for Temporary Works Resubmission         Box Culvert A3 (Portion 18B) - Design for Temporary Works Resubmission         Box Culvert A3 (Portion 18B) - Design for Temporary Works Approval         Box Culvert C (Portion 20) - Design for Temporary Works Approval         Box Culvert C (Portion 20) - Design for Temporary Works Approval         RW1 - Design for Temporary Works P eparation & Submission         RW1 - Design for Temporary Works P eparation & Submission         RW1 - Design for Temporary Works PA paration & Submission         RW4 - Design for Temporary Works P eparation & Submission         RW4 - Design for Temporary Works P eparation & Submission         RW4 - Design for Temporary Works P eparation & Submission         RW4 - Design for Temporary Works P eparation & Submission	7         14         14         21         7         56         14         21         7         56         14         21         7         14         21         7         14         14         21         7         14         14         14         14         14         14         15         30         21         7         30         21         7         30         21         30         21         30         21         30         21         30         21         30         30         30         30         30         30         30         30         30         30         30         30 <tr< td=""><td>13-Jun-23 21-Jun-23 02-May-23 18-May-23 21-Jun-23 02-May-23 02-May-23 02-May-23 18-May-23 13-Jun-23 21-Jun-23 16-Aug-22 A 01-Mar-23 01-Mar-23 01-Mar-23 23-Mar-23 23-Mar-23 23-Mar-23 23-Mar-23 23-Mar-23 01-Mar-23 04-May-23 30-May-23 30-May-23 07-Jun-23 01-Mar-23</td><td>20-Jun-23 08-Jul-23 17-May-23 12-Jun-23 20-Jun-23 29-Jun-23 08-Jul-23 12-Jun-23 12-Jun-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jun-23 08-Jun-23 08-Jun-23 28-Apr-23 28-Apr-23 28-Apr-23 28-Apr-23 28-Apr-23 29-Jun-23 08-Jun-23 08-Jun-23 09-Jun-24 09-Jun-24 09-Jun-24 09-Jun-24 09-Jun-24 09-Jun-25 09-Jun-25 09-Jun-25 09-Jun-25</td><td>26-May-22 04-Jun-22 30-Nov-22 16-Dec-22 13-Jan-23 26-Jan-23 19-Feb-22 08-Mar-22 01-Apr-22 01-Apr-22 11-Apr-22 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 30-May-22 22-Dec-22 17-Jan-23 07-Feb-23 15-Feb-23 15-Feb-23 22-Oct-22 26-Nov-22 21-Dec-22 31-Dec-22 31-Dec-22 15-Apr-23 22-May-23 30-May-22 30-May-22 30-May-22 30-May-22</td><td>02-Jun-22 20-Jun-22 15-Dec-22 12-Jan-23 20-Jan-23 02-Feb-23 29-Apr-22 07-Mar-22 31-Mar-22 09-Apr-22 29-Apr-22 05-Mar-23 05-Mar-23 15-Jun-23 22-Feb-23 16-Jan-23 06-Feb-23 14-Feb-23 14-Feb-23 22-Feb-23 17-Jan-23 25-Nov-22 20-Dec-22 30-Dec-22 30-Dec-22 17-Jan-23 15-Jun-23 20-May-23 15-Jun-23 05-Jul-22 05-Jul-22 05-Jul-22 05-Jul-22 05-Jul-22</td><td>-310 -310 -119 -119 -119 -351 -351 -351 -351 -351 -351 -351 -351</td><td></td></tr<>	13-Jun-23 21-Jun-23 02-May-23 18-May-23 21-Jun-23 02-May-23 02-May-23 02-May-23 18-May-23 13-Jun-23 21-Jun-23 16-Aug-22 A 01-Mar-23 01-Mar-23 01-Mar-23 23-Mar-23 23-Mar-23 23-Mar-23 23-Mar-23 23-Mar-23 01-Mar-23 04-May-23 30-May-23 30-May-23 07-Jun-23 01-Mar-23	20-Jun-23 08-Jul-23 17-May-23 12-Jun-23 20-Jun-23 29-Jun-23 08-Jul-23 12-Jun-23 12-Jun-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jun-23 08-Jun-23 08-Jun-23 28-Apr-23 28-Apr-23 28-Apr-23 28-Apr-23 28-Apr-23 29-Jun-23 08-Jun-23 08-Jun-23 09-Jun-24 09-Jun-24 09-Jun-24 09-Jun-24 09-Jun-24 09-Jun-25 09-Jun-25 09-Jun-25 09-Jun-25	26-May-22 04-Jun-22 30-Nov-22 16-Dec-22 13-Jan-23 26-Jan-23 19-Feb-22 08-Mar-22 01-Apr-22 01-Apr-22 11-Apr-22 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 30-May-22 22-Dec-22 17-Jan-23 07-Feb-23 15-Feb-23 15-Feb-23 22-Oct-22 26-Nov-22 21-Dec-22 31-Dec-22 31-Dec-22 15-Apr-23 22-May-23 30-May-22 30-May-22 30-May-22 30-May-22	02-Jun-22 20-Jun-22 15-Dec-22 12-Jan-23 20-Jan-23 02-Feb-23 29-Apr-22 07-Mar-22 31-Mar-22 09-Apr-22 29-Apr-22 05-Mar-23 05-Mar-23 15-Jun-23 22-Feb-23 16-Jan-23 06-Feb-23 14-Feb-23 14-Feb-23 22-Feb-23 17-Jan-23 25-Nov-22 20-Dec-22 30-Dec-22 30-Dec-22 17-Jan-23 15-Jun-23 20-May-23 15-Jun-23 05-Jul-22 05-Jul-22 05-Jul-22 05-Jul-22 05-Jul-22	-310 -310 -119 -119 -119 -351 -351 -351 -351 -351 -351 -351 -351	
12A-103 12A-104 12A-105 12C-107 12C-107 12C-108 12C-109 12C-109 12C-110 <b>Box Culvent A3</b> 12B-104 12B-104 12B-104 12B-104 12B-106 <b>Box Culvent C</b> S9-205 <b>etaining Wal</b> <b>RW-1</b> 40 RW-140 RW-150 RW-160 RW-160 RW-160 RW-170 <b>RW-1</b> 40 RW-160 R	Box Culvert A1 (Portion 18A) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18A) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A1 (Portion 18C) - Design for Temporary Works PM Review         Box Culvert A1 (Portion 18C) - Design for Temporary Works PM Review         Box Culvert A1 (Portion 18C) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18C) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18D) - Design for Temporary Works Approval         Box Culvert A3 (Portion 18B) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A3 (Portion 18B) - Design for Temporary Works Resubmission         Box Culvert A3 (Portion 18B) - Design for Temporary Works Resubmission         Box Culvert A3 (Portion 18B) - Design for Temporary Works Approval         Box Culvert C (Portion 20) - Design for Temporary Works Approval         Box Culvert C (Portion 20) - Design for Temporary Works Approval         RW1 - Design for Temporary Works P eparation & Submission         RW1 - Design for Temporary Works P eparation & Submission         RW1 - Design for Temporary Works PA paration & Submission         RW4 - Design for Temporary Works P eparation & Submission         RW4 - Design for Temporary Works P eparation & Submission         RW4 - Design for Temporary Works P eparation & Submission         RW4 - Design for Temporary Works P eparation & Submission	7         14         14         21         7         7         56         14         21         7         14         21         7         14         21         7         14         21         7         14         21         7         14         125         47         19         14         7         7         30         21         7         7         14         151         30         21         30         21         30         21         30         21         30         21         30         21         30         21         30         30         30         30          30	13-Jun-23 21-Jun-23 02-May-23 13-Jun-23 21-Jun-23 02-May-23 02-May-23 13-Jun-23 13-Jun-23 13-Jun-23 21-Jun-23 16-Aug-22 A 01-Mar-23 01-Mar-23 01-Mar-23 23-Mar-23 23-Mar-23 24-Mar-23 24-Mar-23 24-Mar-23 24-Mar-23 04-May-23 07-Jun-23 07-Jun-23 01-Mar-23 030-May-23 00-May-23 30-May-23 00-May-23 00-Mar-23 00-Mar-23 00-Mar-23 00-Mar-23	20-Jun-23 08-Jul-23 17-May-23 12-Jun-23 20-Jun-23 29-Jun-23 08-Jul-23 12-Jun-23 20-Jun-23 20-Jun-23 06-Mar-23 06-Mar-23 06-Mar-23 22-Mar-23 22-Mar-23 22-Mar-23 22-Mar-23 23-Jun-23 06-Jun-23	26-May-22 04-Jun-22 30-Nov-22 16-Dec-22 13-Jan-23 26-Jan-23 19-Feb-22 08-Mar-22 01-Apr-22 01-Apr-22 11-Apr-22 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 22-Dec-22 22-Dec-22 22-Dec-22 22-Dec-22 22-Dec-22 22-Dec-22 22-Oct-22 22-Oct-22 22-Oct-22 22-Oct-22 22-Oct-22 22-Oct-22 22-Oct-22 22-Oct-22 23-Dec-22 15-Apr-23 15-Apr-23 15-Apr-23 22-May-23 30-May-22	02-Jun-22 20-Jun-22 15-Dec-22 12-Jan-23 20-Jan-23 02-Feb-23 29-Apr-22 07-Mar-22 09-Apr-22 09-Apr-22 09-Apr-22 09-Apr-22 05-Mar-23 15-Jun-23 16-Jan-23 16-Jan-23 16-Jan-23 14-Feb-23	-310 -310 -119 -119 -119 -351 -351 -351 -351 -351 -351 -351 -351	
12A-103         12A-104         12A-105         12C-107         12C-108         12C-109         12C-110         Box Culvent A3         12B-102         12B-103         12B-104         12B-105         Box Culvent C         S9-205         etaining Wal         RW-140         RW-150         RW-160         RW-170         RW-140         RW-140         RW-140         RW-140         RW-140         RW-140         RW-140         RW-150         RW-160         RW-170         RW-400         RW-410         RW-420         RW-430         RW-500         RW-510         PW1         RW-540         Abriccation ar         Abriccation ar         Abriccation ar         Abriccation ar	Box Culvert A1 (Portion 18A) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18A) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A1 (Portion 18C) - Design for Temporary Works PM Review         Box Culvert A1 (Portion 18C) - Design for Temporary Works PM Review         Box Culvert A1 (Portion 18C) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18C) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18D) - Design for Temporary Works Approval         Box Culvert A3 (Portion 18B) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A3 (Portion 18B) - Design for Temporary Works Resubmission         Box Culvert A3 (Portion 18B) - Design for Temporary Works Resubmission         Box Culvert A3 (Portion 18B) - Design for Temporary Works Approval         Box Culvert C (Portion 20) - Design for Temporary Works Approval         Box Culvert C (Portion 20) - Design for Temporary Works Approval         RW1 - Design for Temporary Works P eparation & Submission         RW1 - Design for Temporary Works P eparation & Submission         RW1 - Design for Temporary Works PA paration & Submission         RW4 - Design for Temporary Works P eparation & Submission         RW4 - Design for Temporary Works P eparation & Submission         RW4 - Design for Temporary Works P eparation & Submission         RW4 - Design for Temporary Works P eparation & Submission	7         14         14         21         7         56         14         21         7         56         14         21         7         14         21         7         14         14         21         7         14         14         14         14         14         14         15         30         21         7         30         21         7         30         21         30         21         30         21         30         21         30         21         30         30         30         30         30         30         30         30         30         30         30         30 <tr< td=""><td>13-Jun-23 21-Jun-23 02-May-23 18-May-23 21-Jun-23 02-May-23 02-May-23 02-May-23 18-May-23 13-Jun-23 21-Jun-23 16-Aug-22 A 01-Mar-23 01-Mar-23 01-Mar-23 23-Mar-23 23-Mar-23 23-Mar-23 23-Mar-23 23-Mar-23 01-Mar-23 04-May-23 30-May-23 30-May-23 07-Jun-23 01-Mar-23</td><td>20-Jun-23 08-Jul-23 17-May-23 12-Jun-23 20-Jun-23 29-Jun-23 08-Jul-23 12-Jun-23 12-Jun-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jun-23 08-Jun-23 08-Jun-23 28-Apr-23 28-Apr-23 28-Apr-23 28-Apr-23 28-Apr-23 29-Jun-23 08-Jun-23 08-Jun-23 09-Jun-24 09-Jun-24 09-Jun-24 09-Jun-24 09-Jun-24 09-Jun-25 09-Jun-25 09-Jun-25 09-Jun-25</td><td>26-May-22 04-Jun-22 30-Nov-22 16-Dec-22 13-Jan-23 26-Jan-23 19-Feb-22 08-Mar-22 01-Apr-22 01-Apr-22 11-Apr-22 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 30-May-22 22-Dec-22 17-Jan-23 07-Feb-23 15-Feb-23 15-Feb-23 22-Oct-22 23-Oct-22 23-Nov-22 21-Dec-22 31-Dec-22 31-Dec-22 31-Dec-23 15-Apr-23 22-May-23 30-May-22 30-May-22 30-May-22 30-May-22</td><td>02-Jun-22 20-Jun-22 15-Dec-22 12-Jan-23 20-Jan-23 02-Feb-23 29-Apr-22 07-Mar-22 31-Mar-22 09-Apr-22 29-Apr-22 05-Mar-23 05-Mar-23 15-Jun-23 22-Feb-23 16-Jan-23 06-Feb-23 14-Feb-23 14-Feb-23 22-Feb-23 17-Jan-23 25-Nov-22 20-Dec-22 30-Dec-22 30-Dec-22 17-Jan-23 15-Jun-23 20-May-23 15-Jun-23 05-Jul-22 05-Jul-22 05-Jul-22 05-Jul-22 05-Jul-22</td><td>-310 -310 -119 -119 -119 -351 -351 -351 -351 -351 -351 -351 -351</td><td></td></tr<>	13-Jun-23 21-Jun-23 02-May-23 18-May-23 21-Jun-23 02-May-23 02-May-23 02-May-23 18-May-23 13-Jun-23 21-Jun-23 16-Aug-22 A 01-Mar-23 01-Mar-23 01-Mar-23 23-Mar-23 23-Mar-23 23-Mar-23 23-Mar-23 23-Mar-23 01-Mar-23 04-May-23 30-May-23 30-May-23 07-Jun-23 01-Mar-23	20-Jun-23 08-Jul-23 17-May-23 12-Jun-23 20-Jun-23 29-Jun-23 08-Jul-23 12-Jun-23 12-Jun-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jun-23 08-Jun-23 08-Jun-23 28-Apr-23 28-Apr-23 28-Apr-23 28-Apr-23 28-Apr-23 29-Jun-23 08-Jun-23 08-Jun-23 09-Jun-24 09-Jun-24 09-Jun-24 09-Jun-24 09-Jun-24 09-Jun-25 09-Jun-25 09-Jun-25 09-Jun-25	26-May-22 04-Jun-22 30-Nov-22 16-Dec-22 13-Jan-23 26-Jan-23 19-Feb-22 08-Mar-22 01-Apr-22 01-Apr-22 11-Apr-22 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 30-May-22 22-Dec-22 17-Jan-23 07-Feb-23 15-Feb-23 15-Feb-23 22-Oct-22 23-Oct-22 23-Nov-22 21-Dec-22 31-Dec-22 31-Dec-22 31-Dec-23 15-Apr-23 22-May-23 30-May-22 30-May-22 30-May-22 30-May-22	02-Jun-22 20-Jun-22 15-Dec-22 12-Jan-23 20-Jan-23 02-Feb-23 29-Apr-22 07-Mar-22 31-Mar-22 09-Apr-22 29-Apr-22 05-Mar-23 05-Mar-23 15-Jun-23 22-Feb-23 16-Jan-23 06-Feb-23 14-Feb-23 14-Feb-23 22-Feb-23 17-Jan-23 25-Nov-22 20-Dec-22 30-Dec-22 30-Dec-22 17-Jan-23 15-Jun-23 20-May-23 15-Jun-23 05-Jul-22 05-Jul-22 05-Jul-22 05-Jul-22 05-Jul-22	-310 -310 -119 -119 -119 -351 -351 -351 -351 -351 -351 -351 -351	
12A-103         12A-104         12A-105         12C-107         12C-108         12C-109         12C-110         Box Culvent A3         12B-102         12B-103         12B-104         12B-105         Box Culvent C         S9-205         etaining Wal         RW-140         RW-150         RW-160         RW-170         RW-140         RW-140         RW-140         RW-140         RW-140         RW-140         RW-140         RW-150         RW-160         RW-170         RW-400         RW-410         RW-420         RW-430         RW-500         RW-510         PW1         RW-540         Abriccation ar         Abriccation ar         Abriccation ar         Abriccation ar	Box Culvert A1 (Portion 18A) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18A) - Design for Temporary Works Approval         Box Culvert A1 (Portion 18C) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A1 (Portion 18C) - Design for Temporary Works PM Review         Box Culvert A1 (Portion 18C) - Design for Temporary Works Peparation and Submission (Area Occupied)         Box Culvert A1 (Portion 18C) - Design for Temporary Works Peparation and Submission (Area Occupied)         Box Culvert A3 (Portion 18D) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A3 (Portion 18D) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A3 (Portion 18D) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A3 (Portion 18D) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A3 (Portion 18D) - Design for Temporary Works Approval         Box Culvert C (Portion 18D) - Design for Temporary Works Approval         Box Culvert C (Portion 20) - Design for Temporary Works Approval         RW1 - Design for Temporary Works Preparation & Submission         RW1 - Design for Temporary Works Preparation & Submission         RW4 - Design for Temporary Works Preparation & Submission         RW4 - Design for Temporary Works Preparation & Submission         RW4 - Design for Temporary Works Preparation & Submission         RW4	7         14         14         21         7         7         56         14         21         7         14         21         7         14         21         7         14         21         7         14         14         14         14         14         125         47         19         14         7         30         21         7         30         21         30         21         30         21         30         21         30         21         30         21         30         21         30         21         30         21         30         221         30         30         30 <t< td=""><td>13-Jun-23 21-Jun-23 02-May-23 13-Jun-23 21-Jun-23 21-Jun-23 02-May-23 13-Jun-23 13-Jun-23 21-Jun-23 21-Jun-23 21-Jun-23 01-Mar-23 01-Mar-23 01-Mar-23 23-Mar-23 23-Mar-23 24-Mar-23 24-Mar-23 24-Mar-23 24-Mar-23 24-Mar-23 24-Mar-23 01-Mar-23 01-Mar-23 030-May-23 030-May-23 00-May-23 00-May-23 30-May-23 28-Jun-23 01-Mar-23 01-Mar-23 00-Mar-20 00-Mar-20 00-Mar-20 00-Mar-20 00-Mar-20 00-Mar-20 00-Mar-20 00-M</td><td>20-Jun-23 08-Jul-23 17-May-23 12-Jun-23 29-Jun-23 29-Jun-23 08-Jul-23 12-Jun-23 20-Jun-23 20-Jun-23 06-Mar-23 06-Mar-23 06-Mar-23 22-Mar-23 22-Mar-23 22-Mar-23 22-Mar-23 23-Jun-23 06-Jun-23</td><td>26-May-22 04-Jun-22 30-Nov-22 16-Dec-22 13-Jan-23 26-Jan-23 19-Feb-22 08-Mar-22 01-Apr-22 11-Apr-22 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 22-Dec-22 22-Dec-22 22-Dec-22 22-Dec-22 22-Dec-22 22-Oct-22 22-Oct-22 22-Oct-22 22-Oct-22 22-Oct-22 22-Oct-22 22-Oct-22 23-Dec-22 15-Apr-23 15-Apr-23 15-Apr-23 15-Apr-23 22-May-22 30-May-22 30-May-22 18-Dec-21</td><td>02-Jun-22 20-Jun-22 15-Dec-22 12-Jan-23 20-Jan-23 02-Feb-23 29-Apr-22 07-Mar-22 31-Mar-22 09-Apr-22 29-Apr-22 05-Mar-23 05-Mar-23 15-Jun-23 16-Jan-23 16-Jan-23 16-Jan-23 22-Feb-23 14-Feb-23 14-Feb-23 22-Feb-23 14-Feb-23 22-Feb-23 14-Feb-23 22-Feb-23 14-Feb-23 14-Feb-23 22-Feb-23 14-Feb-23 14-Feb-23 22-Feb-23 14-Feb-23 14-Feb-23 22-Feb-23 14-Feb-23 14-Feb-23 22-Feb-23 14-Feb-23 20-Dec-22 30-Dec-22</td><td>-310 -310 -119 -119 -119 -351 -351 -351 -351 -351 -351 -351 -351</td><td></td></t<>	13-Jun-23 21-Jun-23 02-May-23 13-Jun-23 21-Jun-23 21-Jun-23 02-May-23 13-Jun-23 13-Jun-23 21-Jun-23 21-Jun-23 21-Jun-23 01-Mar-23 01-Mar-23 01-Mar-23 23-Mar-23 23-Mar-23 24-Mar-23 24-Mar-23 24-Mar-23 24-Mar-23 24-Mar-23 24-Mar-23 01-Mar-23 01-Mar-23 030-May-23 030-May-23 00-May-23 00-May-23 30-May-23 28-Jun-23 01-Mar-23 01-Mar-23 00-Mar-20 00-Mar-20 00-Mar-20 00-Mar-20 00-Mar-20 00-Mar-20 00-Mar-20 00-M	20-Jun-23 08-Jul-23 17-May-23 12-Jun-23 29-Jun-23 29-Jun-23 08-Jul-23 12-Jun-23 20-Jun-23 20-Jun-23 06-Mar-23 06-Mar-23 06-Mar-23 22-Mar-23 22-Mar-23 22-Mar-23 22-Mar-23 23-Jun-23 06-Jun-23	26-May-22 04-Jun-22 30-Nov-22 16-Dec-22 13-Jan-23 26-Jan-23 19-Feb-22 08-Mar-22 01-Apr-22 11-Apr-22 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 22-Dec-22 22-Dec-22 22-Dec-22 22-Dec-22 22-Dec-22 22-Oct-22 22-Oct-22 22-Oct-22 22-Oct-22 22-Oct-22 22-Oct-22 22-Oct-22 23-Dec-22 15-Apr-23 15-Apr-23 15-Apr-23 15-Apr-23 22-May-22 30-May-22 30-May-22 18-Dec-21	02-Jun-22 20-Jun-22 15-Dec-22 12-Jan-23 20-Jan-23 02-Feb-23 29-Apr-22 07-Mar-22 31-Mar-22 09-Apr-22 29-Apr-22 05-Mar-23 05-Mar-23 15-Jun-23 16-Jan-23 16-Jan-23 16-Jan-23 22-Feb-23 14-Feb-23 14-Feb-23 22-Feb-23 14-Feb-23 22-Feb-23 14-Feb-23 22-Feb-23 14-Feb-23 14-Feb-23 22-Feb-23 14-Feb-23 14-Feb-23 22-Feb-23 14-Feb-23 14-Feb-23 22-Feb-23 14-Feb-23 14-Feb-23 22-Feb-23 14-Feb-23 20-Dec-22 30-Dec-22	-310 -310 -119 -119 -119 -351 -351 -351 -351 -351 -351 -351 -351	
12A-103       12A-104       12A-105       12C-107       12C-108       12C-109       12C-110       Box Culvent A3       12B-102       12B-102       12B-103       12B-104       12B-105       Box Culvent C       S9-205       etaining Wal       RW-140       RW-150       RW-160       RW-170       RW-400       RW-400       RW-400       RW-400       RW-400       RW-500       RW-500       RW-500       RW-500       RW-540       HW-540       HW-540	Box Culvert A1 (Portion 18A) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18A) - Design for Temporary Works Approval         Box Culvert A1 (Portion 18C) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A1 (Portion 18C) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A1 (Portion 18C) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A1 (Portion 18C) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A3 (Portion 18B) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A3 (Portion 18B) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A3 (Portion 18B) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A3 (Portion 18B) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A3 (Portion 18B) - Design for Temporary Works Approval         Box Culvert C (Portion 18B) - Design for Temporary Works Approval         Box Culvert C (Portion 18B) - Design for Temporary Works Approval         RW1 - Design for Temporary Works Preparation & Submission         RW1 - Design for Temporary Works Preparation & Submission         RW4 - Design for Temporary Works Preparation & Submission         RW4 - Design for Temporary Works Preparation & Submission         RW4 - Design for Temporary Works Preparation & Submission <td>7         14         21         7         7         7         56         14         21         7         14         21         7         14         21         7         14         21         7         14         21         7         14         14         125         47         19         14         7         30         21         7         30         21         7         30         21         30         21         30         21         30         30         30         30         30         30         30         30         30         30         30         30         30         30</td> <td>13-Jun-23 21-Jun-23 02-May-23 13-Jun-23 21-Jun-23 02-May-23 02-May-23 13-Jun-23 13-Jun-23 21-Jun-23 13-Jun-23 13-Aug-22 A 16-Aug-22 A 01-Mar-23 01-Mar-23 01-Mar-23 23-Mar-23 23-Mar-23 23-Mar-23 24-Mar-23 24-Mar-23 24-Mar-23 04-May-24 04-May-24 04-May-24 04-May-24 04-May-24 04-May-24 04-May-24 04-May-24 04-May-24 04-May-24 04-May-24 04-May-24 04-May-24 04-May-24 04-May-</td> <td>20-Jun-23 08-Jul-23 17-May-23 20-Jun-23 29-Jun-23 08-Jul-23 12-Jun-23 20-Jun-23 20-Jun-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jun-23 28-Apr-23</td> <td>26-May-22 04-Jun-22 30-Nov-22 16-Dec-22 13-Jan-23 26-Jan-23 19-Feb-22 08-Mar-22 01-Apr-22 11-Apr-22 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 22-Dec-22 22-Dec-22 17-Jan-23 07-Feb-23 15-Feb-23 15-Feb-23 22-Oct-22 22-Oct-22 22-Oct-22 22-Oct-22 22-Oct-22 22-Oct-22 22-Oct-22 23-Dec-21 15-Apr-23 15-Apr-23 15-Apr-23 22-May-22 30-May-22 30-May-22 30-May-22 18-Dec-21 18-Dec-21 18-Dec-21</td> <td>02-Jun-22 20-Jun-22 15-Dec-22 12-Jan-23 20-Jan-23 02-Feb-23 29-Apr-22 07-Mar-22 09-Apr-22 29-Apr-22 06-Mar-23 06-Mar-23 06-Mar-23 15-Jun-23 22-Feb-23 16-Jan-23 06-Feb-23 14-Feb-23 22-Feb-23 14-Feb-23 22-Feb-23 14-Feb-23 22-Feb-23 14-Feb-23 22-Feb-23 15-Jun-23 25-Nov-22 20-Dec-22 30-Dec-22 30-Dec-22 17-Jan-23 15-Jun-23 20-May-23 15-Jun-23 20-May-23 15-Jun-23 20-May-23 15-Jun-23 20-May-23 15-Jun-23 20-May-23 15-Jun-23 20-May-22 06-Jul-22</td> <td>-310 -310 -119 -119 -119 -351 -351 -351 -351 -351 -351 -351 -351</td> <td></td>	7         14         21         7         7         7         56         14         21         7         14         21         7         14         21         7         14         21         7         14         21         7         14         14         125         47         19         14         7         30         21         7         30         21         7         30         21         30         21         30         21         30         30         30         30         30         30         30         30         30         30         30         30         30         30	13-Jun-23 21-Jun-23 02-May-23 13-Jun-23 21-Jun-23 02-May-23 02-May-23 13-Jun-23 13-Jun-23 21-Jun-23 13-Jun-23 13-Aug-22 A 16-Aug-22 A 01-Mar-23 01-Mar-23 01-Mar-23 23-Mar-23 23-Mar-23 23-Mar-23 24-Mar-23 24-Mar-23 24-Mar-23 04-May-24 04-May-24 04-May-24 04-May-24 04-May-24 04-May-24 04-May-24 04-May-24 04-May-24 04-May-24 04-May-24 04-May-24 04-May-24 04-May-24 04-May-	20-Jun-23 08-Jul-23 17-May-23 20-Jun-23 29-Jun-23 08-Jul-23 12-Jun-23 20-Jun-23 20-Jun-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jun-23 28-Apr-23	26-May-22 04-Jun-22 30-Nov-22 16-Dec-22 13-Jan-23 26-Jan-23 19-Feb-22 08-Mar-22 01-Apr-22 11-Apr-22 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 22-Dec-22 22-Dec-22 17-Jan-23 07-Feb-23 15-Feb-23 15-Feb-23 22-Oct-22 22-Oct-22 22-Oct-22 22-Oct-22 22-Oct-22 22-Oct-22 22-Oct-22 23-Dec-21 15-Apr-23 15-Apr-23 15-Apr-23 22-May-22 30-May-22 30-May-22 30-May-22 18-Dec-21 18-Dec-21 18-Dec-21	02-Jun-22 20-Jun-22 15-Dec-22 12-Jan-23 20-Jan-23 02-Feb-23 29-Apr-22 07-Mar-22 09-Apr-22 29-Apr-22 06-Mar-23 06-Mar-23 06-Mar-23 15-Jun-23 22-Feb-23 16-Jan-23 06-Feb-23 14-Feb-23 22-Feb-23 14-Feb-23 22-Feb-23 14-Feb-23 22-Feb-23 14-Feb-23 22-Feb-23 15-Jun-23 25-Nov-22 20-Dec-22 30-Dec-22 30-Dec-22 17-Jan-23 15-Jun-23 20-May-23 15-Jun-23 20-May-23 15-Jun-23 20-May-23 15-Jun-23 20-May-23 15-Jun-23 20-May-23 15-Jun-23 20-May-22 06-Jul-22	-310 -310 -119 -119 -119 -351 -351 -351 -351 -351 -351 -351 -351	
12A-103       12A-104       12A-105       12C-107       12C-108       12C-109       12C-110       Box Culvent A3       12B-102       12B-103       12B-104       12B-105       Box Culvent C       S9-205       etaining Wal       RW-140       RW-150       RW-160       RW-170       RW-400       RW-410       RW-430       RW-430       RW5       RW-500       RW-510       PW1       RW-500       RW-500<	Box Culvert A1 (Portion 18A) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18A) - Design for Temporary Works Approval         Box Culvert A1 (Portion 18C) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A1 (Portion 18C) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A1 (Portion 18C) - Design for Temporary Works Peparation and Submission (Area Occupied)         Box Culvert A1 (Portion 18C) - Design for Temporary Works Resubmission         Box Culvert A3 (Portion 18B) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A3 (Portion 18B) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A3 (Portion 18B) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A3 (Portion 18B) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A3 (Portion 18B) - Design for Temporary Works Approval         Box Culvert A3 (Portion 18B) - Design for Temporary Works Approval         Box Culvert C (Portion 20) - Design for Temporary Works Approval         Box Culvert C (Portion 20) - Design for Temporary Works Approval         RW1 - Design for Temporary Works Preparation & Submission         RW1 - Design for Temporary Works Preparation & Submission         RW4 - Design for Temporary Works Preparation & Submission         RW4 - Design for Temporary Works Preparation & Submission	7         14         21         7         7         7         56         14         21         7         14         21         7         14         21         7         14         21         7         14         14         14         14         14         14         14         15         30         21         7         14         15         30         21         7         30         21         7         30         21         30         21         30         21         30         21         30         21         30         30         257         430         403	13-Jun-23 21-Jun-23 02-May-23 13-Jun-23 21-Jun-23 02-May-23 02-May-23 13-Jun-23 13-Jun-23 13-Jun-23 13-Jun-23 16-Aug-22 A 16-Aug-22 A 01-Mar-23 01-Mar-23 01-Mar-23 23-Mar-23 23-Mar-23 23-Mar-23 23-Mar-23 23-Mar-23 23-Mar-23 23-Mar-23 01-Mar-23 01-Mar-23 01-Mar-23 04-May-24 04-May-	20-Jun-23 08-Jul-23 17-May-23 12-Jun-23 20-Jun-23 29-Jun-23 08-Jul-23 12-Jun-23 20-Jun-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jun-23 22-Mar-23 22-Mar-23 22-Mar-23 23-Jun-23 23-Jun-23 03-May-23 04-May-24 04-May-24 04-May-24 04-May-24 04-May-24 04-May-24 04-May-24 04-May-24 04-May-24 04-May-24 04-May-24	26-May-22 04-Jun-22 30-Nov-22 16-Dec-22 13-Jan-23 26-Jan-23 19-Feb-22 08-Mar-22 01-Apr-22 11-Apr-22 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 22-Dec-22 22-Dec-22 17-Jan-23 07-Feb-23 15-Feb-23 22-Oct-22 22-Oct-22 22-Oct-22 22-Oct-22 23-Nov-22 22-Oct-22 23-Nov-22 22-Oct-22 23-Nov-22 23-Dec-21 15-Apr-23 15-Apr-23 22-May-23 30-May-22 30-May-22 30-May-22 18-Dec-21 18-Dec-21 18-Dec-21	02-Jun-22 20-Jun-22 15-Dec-22 12-Jan-23 20-Jan-23 02-Feb-23 29-Apr-22 07-Mar-22 29-Apr-22 09-Apr-22 29-Apr-22 06-Mar-23 15-Jun-23 16-Jan-23 16-Jan-23 16-Jan-23 16-Jan-23 22-Feb-23 14-Feb-23 14-Feb-23 22-Feb-23 17-Jan-23 25-Nov-22 20-Dec-22 30-Dec-22 30-Dec-22 17-Jan-23 15-Jun-23 20-May-23 15-Jun-23 15-Jun-23 20-May-23 15-Jun-23 20-May-23 15-Jun-23 20-May-23 15-Jun-23 20-Jul-22 05-Jul-22	-310 -310 -119 -119 -119 -351 -351 -351 -351 -351 -351 -351 -351	
12A-103       12A-104       12A-105       12C-107       12C-108       12C-109       12C-110       Box Culvent A3       12B-102       12B-103       12B-104       12B-105       Box Culvent C       S9-205       Retaining Wal       RW-140       RW-150       RW-160       RW-160       RW-410       RW-420       RW-430       RW-500       RW-510       PW1       RW-540       brication an       ite Office       so-1020       SO-1050	Box Culvert A1 (Portion 18A) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18C) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A1 (Portion 18C) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A1 (Portion 18C) - Design for Temporary Works PM Review         Box Culvert A1 (Portion 18C) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18C) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18D) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A3 (Portion 18D) - Design for Temporary Works PM Review         Box Culvert A3 (Portion 18D) - Design for Temporary Works PResubmission         Box Culvert A3 (Portion 18D) - Design for Temporary Works Approval         Box Culvert C (Portion 20) - Design for Temporary Works Approval         Box Culvert C (Portion 20) - Design for Temporary Works Approval         RW1 - Design for Temporary Works P eparation & Submission         RW1 - Design for Temporary Works P eparation & Submission         RW4 - Design for Temporary Works P eparation & Submission         RW4 - Design for Temporary Works P eparation & Submission         RW4 - Design for Temporary Works P eparation & Submission         RW4 - Design for Temporary Works P eparation & Submission         RW4 - Design for Temporary Works P eparation & Submission         RW4 - Design for Temporary Works P eparati	7         14         21         7         7         56         14         21         7         14         21         7         14         21         7         14         21         7         14         21         7         14         14         14         14         14         15         30         21         7         30         21         7         30         21         7         30         21         30         21         30         21         30         21         30         21         30         221         30         21         30         2257         430         30         30 <t< td=""><td>13.Jun-23 21.Jun-23 02.May-23 13.Jun-23 21.Jun-23 02.May-23 02.May-23 13.Jun-23 13.Jun-23 13.Jun-23 13.Jun-23 14.Aug-22 A 16.Aug-22 A 16.Aug-22 A 01.Mar-23 01.Mar-23 01.Mar-23 23.Mar-23 24.Mar-23 24.Mar-23 24.Mar-23 04.May-24 04.May-24 04.May-24 04.May-24 04.May-24 04.May-24 04.May-24 04.May-24 04.May-24 04.Ma</td><td>20-Jun-23 08-Jul-23 17-May-23 12-Jun-23 20-Jun-23 29-Jun-23 08-Jul-23 12-Jun-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 09-May-23 09-May-23 09-May-23 09-May-23 09-May-23 09-May-23 09-May-23 09-Jul-23 09-Jul-23 07-Jul-23 07-Jul-23 07-Jul-23 07-Jul-23 07-Jul-23 07-Jul-23 07-Jul-23 08-Jun-23 07-Jul-23 08-Jun-23 09-Jun-23</td><td>26-May-22 04-Jun-22 30-Nov-22 16-Dec-22 13-Jan-23 26-Jan-23 19-Feb-22 08-Mar-22 01-Apr-22 11-Apr-22 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 15-Feb-23 15-Feb-23 15-Feb-23 22-Oct-22 22-Oct-22 26-Nov-22 21-Dec-22 31-Dec-22 31-Dec-22 31-Dec-22 31-Dec-22 33-May-23 22-May-23 30-May-22 30-May-22 30-May-22 18-Dec-21 18-Dec-21 18-Dec-21 02-Mar-22 04-Mar-22</td><td>02-Jun-22 20-Jun-22 15-Dec-22 12-Jan-23 20-Jan-23 02-Feb-23 29-Apr-22 07-Mar-22 29-Apr-22 09-Apr-22 29-Apr-22 06-Mar-23 06-Mar-23 15-Jun-23 16-Jan-23 06-Feb-23 16-Jan-23 06-Feb-23 14-Feb-23 22-Feb-23 16-Jan-23 25-Nov-22 20-Dec-22 30-Dec-22 30-Dec-22 30-Dec-22 30-Dec-22 30-Dec-22 30-Dec-22 30-Dec-22 30-Dec-22 30-Dec-22 17-Jan-23 15-Jun-23 20-May-23 15-Jun-23 06-Jul-22 05-Jul-22 15-Dec-23 13-May-22 02-Apr-22 14-Mar-22 29-Mar-22</td><td>-310 -310 -119 -119 -119 -351 -351 -351 -351 -351 -351 -351 -351</td><td></td></t<>	13.Jun-23 21.Jun-23 02.May-23 13.Jun-23 21.Jun-23 02.May-23 02.May-23 13.Jun-23 13.Jun-23 13.Jun-23 13.Jun-23 14.Aug-22 A 16.Aug-22 A 16.Aug-22 A 01.Mar-23 01.Mar-23 01.Mar-23 23.Mar-23 24.Mar-23 24.Mar-23 24.Mar-23 04.May-24 04.May-24 04.May-24 04.May-24 04.May-24 04.May-24 04.May-24 04.May-24 04.May-24 04.Ma	20-Jun-23 08-Jul-23 17-May-23 12-Jun-23 20-Jun-23 29-Jun-23 08-Jul-23 12-Jun-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 08-Jul-23 09-May-23 09-May-23 09-May-23 09-May-23 09-May-23 09-May-23 09-May-23 09-Jul-23 09-Jul-23 07-Jul-23 07-Jul-23 07-Jul-23 07-Jul-23 07-Jul-23 07-Jul-23 07-Jul-23 08-Jun-23 07-Jul-23 08-Jun-23 09-Jun-23	26-May-22 04-Jun-22 30-Nov-22 16-Dec-22 13-Jan-23 26-Jan-23 19-Feb-22 08-Mar-22 01-Apr-22 11-Apr-22 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 15-Feb-23 15-Feb-23 15-Feb-23 22-Oct-22 22-Oct-22 26-Nov-22 21-Dec-22 31-Dec-22 31-Dec-22 31-Dec-22 31-Dec-22 33-May-23 22-May-23 30-May-22 30-May-22 30-May-22 18-Dec-21 18-Dec-21 18-Dec-21 02-Mar-22 04-Mar-22	02-Jun-22 20-Jun-22 15-Dec-22 12-Jan-23 20-Jan-23 02-Feb-23 29-Apr-22 07-Mar-22 29-Apr-22 09-Apr-22 29-Apr-22 06-Mar-23 06-Mar-23 15-Jun-23 16-Jan-23 06-Feb-23 16-Jan-23 06-Feb-23 14-Feb-23 22-Feb-23 16-Jan-23 25-Nov-22 20-Dec-22 30-Dec-22 30-Dec-22 30-Dec-22 30-Dec-22 30-Dec-22 30-Dec-22 30-Dec-22 30-Dec-22 30-Dec-22 17-Jan-23 15-Jun-23 20-May-23 15-Jun-23 06-Jul-22 05-Jul-22 15-Dec-23 13-May-22 02-Apr-22 14-Mar-22 29-Mar-22	-310 -310 -119 -119 -119 -351 -351 -351 -351 -351 -351 -351 -351	
12A-103       12A-104       12A-105       12C-107       12C-108       12C-109       12C-110       Box Culvent A3       12B-102       12B-104       12B-104       12B-104       12B-104       12B-106       Box Culvent C       S9-205       Retaining Wal       RW-140       RW-150       RW-160       RW-160       RW-400       RW-400       RW-420       RW-420       RW-430       RW-510       PW1       RW-510       PW1       RW-540       brication an       ite Office       SO-1020       SO-1020       SO-1050       SO-1060	Box Culvert A1 (Portion 18A) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18C) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A1 (Portion 18C) - Design for Temporary Works PM Review         Box Culvert A1 (Portion 18C) - Design for Temporary Works PM Review         Box Culvert A1 (Portion 18C) - Design for Temporary Works PM Review         Box Culvert A1 (Portion 18C) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18C) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A3 (Portion 18E) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A3 (Portion 18E) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A3 (Portion 18E) - Design for Temporary Works Approval         Box Culvert C (Portion 20) - Design for Temporary Works Approval         Box Culvert C (Portion 20) - Design for Temporary Works Approval         Box Culvert C (Portion 20) - Design for Temporary Works Approval         RW1 - Design for Temporary Works Preparation & Submission         RW1 - Design for Temporary Works Preparation & Submission         RW4 - Design for Temporary Works Preparation & Submission         RW4 - Design for Temporary Works Preparation & Submission         RW4 - Design for Temporary Works Preparation & Submission         RW5 - Design for Temporary Works Preparation & Submission         RW5 - Des	7         14         14         21         7         7         56         14         21         7         14         21         7         14         21         7         14         21         7         14         14         14         14         14         14         14         15         30         21         7         30         21         30         21         7         30         21         30         21         30         21         30         21         30         21         30         21         30         221         30         30         30         30         30         30 <tr< td=""><td>13.Jun-23 21.Jun-23 02.May-23 13.Jun-23 21.Jun-23 02.May-23 02.May-23 13.Jun-23 13.Jun-23 21.Jun-23 21.Jun-23 21.Jun-23 01.Mar-23 01.Mar-23 01.Mar-23 01.Mar-23 23.Mar-23 24.Mar-23 24.Mar-23 24.Mar-23 24.Mar-23 24.Mar-23 01.Mar-23 01.Mar-23 01.Mar-23 01.Mar-23 03.May-23 04.May-24 04.May-24 04.May-24 04.May-24 04.May-24 04.May-24 04.May-24 04.May-24 04.May-24</td><td>20-Jun-23 08-Jul-23 17-May-23 20-Jun-23 29-Jun-23 29-Jun-23 29-Jun-23 12-Jun-23 20-Jun-23 20-Jun-23 06-Mar-23 06-Mar-23 06-Mar-23 22-Mar-23 22-Mar-23 22-Mar-23 23-Jun-23 23-Jun-23 06-Jun-23 06-Jun-23 06-Jun-23 06-Jun-23 06-Jun-23 06-Jun-23 06-Jun-23 06-Jun-23 06-Jun-23 06-Jun-23 06-Jun-23 06-Jun-23 06-Jun-23 06-Jun-23 06-Jun-23 06-Jun-23 07-Jul-23 07-Jul-23 07-Jul-23 27-May-23 27-May-23 27-May-23 27-May-23</td><td>26-May-22 04-Jun-22 30-Nov-22 16-Dec-22 13-Jan-23 26-Jan-23 19-Feb-22 08-Mar-22 01-Apr-22 11-Apr-22 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 22-Dec-22 22-Dec-22 22-Dec-22 22-Dec-22 22-Dec-22 22-Oct-22 22-Oct-22 22-Oct-22 22-Oct-22 22-Oct-22 22-Oct-22 22-Oct-22 22-Oct-22 22-Oct-22 22-Oct-22 23-Nov-22 23-Nov-22 23-Nov-22 23-Nay-23 30-May-22 30-May-22 30-May-22 30-May-22 20-Mar-22 04-Mar-22 04-Mar-22 04-Mar-22</td><td>02-Jun-22 20-Jun-22 15-Dec-22 12-Jan-23 20-Jan-23 02-Feb-23 29-Apr-22 07-Mar-22 09-Apr-22 09-Apr-22 09-Apr-22 09-Apr-22 05-Mar-23 05-Mar-23 15-Jun-23 22-Feb-23 16-Jan-23 06-Feb-23 14-Feb-23 14-Feb-23 22-Feb-23 14-Feb-23 22-Feb-23 14-Feb-23 22-Feb-23 14-Feb-23 22-Feb-23 14-Feb-23 22-Feb-23 14-Feb-23 22-Feb-23 14-Feb-23 22-Feb-23 14-Feb-23 15-Jun-23 20-Dec-22 30-Dec-22</td><td>-310 -310 -119 -119 -119 -351 -351 -351 -351 -351 -351 -351 -351</td><td></td></tr<>	13.Jun-23 21.Jun-23 02.May-23 13.Jun-23 21.Jun-23 02.May-23 02.May-23 13.Jun-23 13.Jun-23 21.Jun-23 21.Jun-23 21.Jun-23 01.Mar-23 01.Mar-23 01.Mar-23 01.Mar-23 23.Mar-23 24.Mar-23 24.Mar-23 24.Mar-23 24.Mar-23 24.Mar-23 01.Mar-23 01.Mar-23 01.Mar-23 01.Mar-23 03.May-23 04.May-24 04.May-24 04.May-24 04.May-24 04.May-24 04.May-24 04.May-24 04.May-24 04.May-24	20-Jun-23 08-Jul-23 17-May-23 20-Jun-23 29-Jun-23 29-Jun-23 29-Jun-23 12-Jun-23 20-Jun-23 20-Jun-23 06-Mar-23 06-Mar-23 06-Mar-23 22-Mar-23 22-Mar-23 22-Mar-23 23-Jun-23 23-Jun-23 06-Jun-23 06-Jun-23 06-Jun-23 06-Jun-23 06-Jun-23 06-Jun-23 06-Jun-23 06-Jun-23 06-Jun-23 06-Jun-23 06-Jun-23 06-Jun-23 06-Jun-23 06-Jun-23 06-Jun-23 06-Jun-23 07-Jul-23 07-Jul-23 07-Jul-23 27-May-23 27-May-23 27-May-23 27-May-23	26-May-22 04-Jun-22 30-Nov-22 16-Dec-22 13-Jan-23 26-Jan-23 19-Feb-22 08-Mar-22 01-Apr-22 11-Apr-22 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 22-Dec-22 22-Dec-22 22-Dec-22 22-Dec-22 22-Dec-22 22-Oct-22 22-Oct-22 22-Oct-22 22-Oct-22 22-Oct-22 22-Oct-22 22-Oct-22 22-Oct-22 22-Oct-22 22-Oct-22 23-Nov-22 23-Nov-22 23-Nov-22 23-Nay-23 30-May-22 30-May-22 30-May-22 30-May-22 20-Mar-22 04-Mar-22 04-Mar-22 04-Mar-22	02-Jun-22 20-Jun-22 15-Dec-22 12-Jan-23 20-Jan-23 02-Feb-23 29-Apr-22 07-Mar-22 09-Apr-22 09-Apr-22 09-Apr-22 09-Apr-22 05-Mar-23 05-Mar-23 15-Jun-23 22-Feb-23 16-Jan-23 06-Feb-23 14-Feb-23 14-Feb-23 22-Feb-23 14-Feb-23 22-Feb-23 14-Feb-23 22-Feb-23 14-Feb-23 22-Feb-23 14-Feb-23 22-Feb-23 14-Feb-23 22-Feb-23 14-Feb-23 22-Feb-23 14-Feb-23 15-Jun-23 20-Dec-22 30-Dec-22	-310 -310 -119 -119 -119 -351 -351 -351 -351 -351 -351 -351 -351	
12A-103       12A-104       12A-105       12C-107       12C-108       12C-109       12C-110       Box Culvent A3       12B-102       12B-103       12B-104       12B-105       Box Culvent C       S9-205       etaining Wal       RW-100       RW-140       RW-150       RW-160       RW-170       RW-400       RW-400       RW-400       RW-500       RW-410       RW-420       RW-500       SO-1020       SO-1020       SO-1020       SO-1020       SO-1020       SO-1020	Box Culvert A1 (Portion 18A) - Design for Temporary Works Resubmission         Box Culvert A1 (Portion 18C) - Design for Temporary Works Approval         Box Culvert A1 (Portion 18C) - Design for Temporary Works Preparation and Submission (Area Occupied)         Box Culvert A1 (Portion 18C) - Design for Temporary Works Peparation and Submission (Area Occupied)         Box Culvert A1 (Portion 18C) - Design for Temporary Works Peparation and Submission (Area Occupied)         Box Culvert A1 (Portion 18C) - Design for Temporary Works Approval         Box Culvert A3 (Portion 18B) - Design for Temporary Works Peparation and Submission (Area Occupied)         Box Culvert A3 (Portion 18B) - Design for Temporary Works Peparation and Submission (Area Occupied)         Box Culvert A3 (Portion 18B) - Design for Temporary Works Peparation and Submission (Area Occupied)         Box Culvert A3 (Portion 18B) - Design for Temporary Works Peparation and Submission (Area Occupied)         Box Culvert A3 (Portion 18B) - Design for Temporary Works Approval         Box Culvert A3 (Portion 18B) - Design for Temporary Works Approval         Box Culvert A3 (Portion 18B) - Design for Temporary Works Approval         Box Culvert A3 (Portion 18B) - Design for Temporary Works Approval         Box Culvert A3 (Portion 18B) - Design for Temporary Works Approval         RW1 - Design for Temporary Works P tep at ation & Submission         RW1 - Design for Temporary Works PA paration & Submission         RW4 - Design for Temporary Works PA paration & Submission	7         14         14         21         7         7         56         14         21         7         14         21         7         14         21         7         14         21         7         14         14         14         14         14         15         30         21         7         14         15         30         21         30         21         30         21         30         21         30         21         30         21         30         31         32         330         21         30         30         31         32         330         330         340         30	13.Jun-23 21.Jun-23 02.May-23 13.Jun-23 21.Jun-23 02.May-23 02.May-23 13.Jun-23 13.Jun-23 13.Jun-23 13.Jun-23 13.Jun-23 16.Aug-22 A 16.Aug-22 A 16.Aug-23 01.Mar-23 01.Mar-23 23.Mar-23 24.Mar-23 24.Mar-23 24.Mar-23 24.Mar-23 24.Mar-23 24.Mar-23 24.Mar-23 24.Mar-23 24.Mar-23 24.Mar-23 24.Mar-23 24.Mar-23 24.Mar-23 24.Mar-23 24.Mar-23 24.Mar-23 24.Mar-23 24.Jun-23 24.Jun-23 01.Mar-23 01.Mar-23 04.May-23 04.May-23 04.May-23 04.May-23 04.May-23 04.May-23 04.May-23 24.Jun-23 24.Jun-23 28.Jun-	20-Jun-23 08-Jul-23 17-May-23 12-Jun-23 20-Jun-23 29-Jun-23 08-Jul-23 12-Jun-23 12-Jun-23 08-Jul-23 06-Mar-23 06-Mar-23 06-Mar-23 06-Mar-23 12-Apr-23 22-Mar-23 12-Apr-23 23-Jun-23 03-May-23 04-May-24 04-May-24 04-May-24 04-May-24 04-May-24 04-May-24	26-May-22 04-Jun-22 30-Nov-22 16-Dec-22 13-Jan-23 26-Jan-23 19-Feb-22 08-Mar-22 08-Mar-22 01-Apr-22 11-Apr-22 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 28-Feb-23 22-Dec-22 22-Dec-22 22-Dec-22 22-Dec-22 22-Oct-22 22-Oct-22 22-Oct-22 22-Oct-22 22-Oct-22 22-Oct-22 22-Oct-22 22-Oct-22 22-Oct-22 22-Oct-22 23-Dec-22 31-Dec-22 23-Dec-22 23-Dec-22 23-Dec-22 23-Dec-22 23-Dec-22 23-Dec-22 23-Dec-22 23-Dec-22 23-Dec-22 23-Dec-22 23-Dec-21 18-Dec-21 18-Dec-21 02-Mar-22 09-Mar-22 09-Mar-22	02-Jun-22 20-Jun-22 15-Dec-22 12-Jan-23 20-Jan-23 02-Feb-23 29-Apr-22 07-Mar-22 29-Apr-22 09-Apr-22 29-Apr-22 05-Mar-23 05-Mar-23 05-Mar-23 15-Jun-23 22-Feb-23 16-Jan-23 22-Feb-23 14-Feb-23 22-Feb-23 14-Feb-23 22-Feb-23 14-Feb-23 22-Feb-23 14-Feb-23 22-Feb-23 14-Feb-23 22-Feb-23 14-Feb-23 22-Feb-23 14-Feb-23 22-Feb-23 14-Feb-23 22-Feb-23 14-Feb-23 22-Feb-23 14-Feb-23 22-Feb-23 14-Feb-23 22-Feb-23 15-Jun-23 20-Dec-22 30-Dec-22	-310 -310 -119 -119 -119 -351 -351 -351 -351 -351 -351 -351 -351	



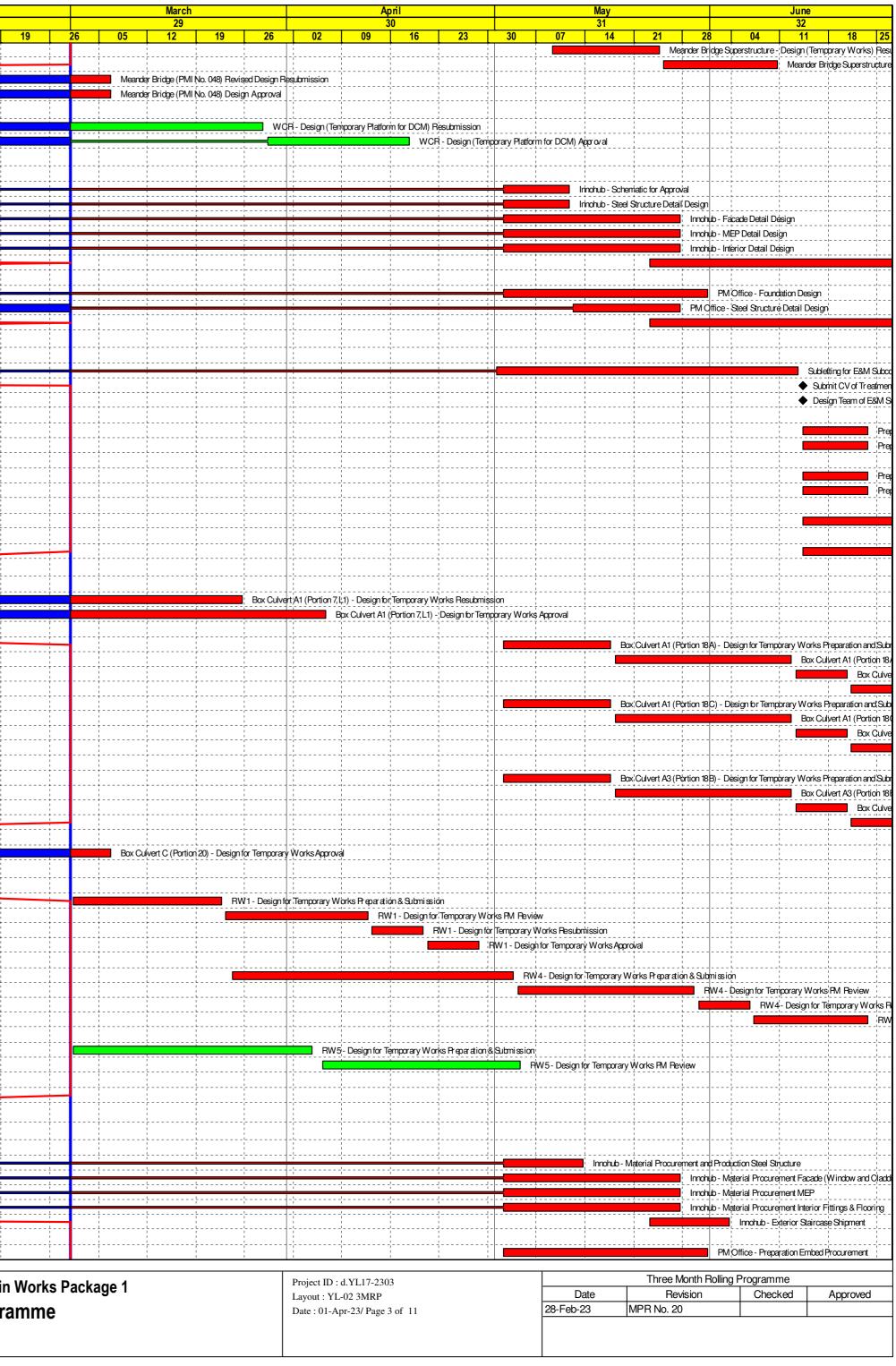
Actual Level of Effort

Actual WorkRemaining Work

Critical Remaining Work

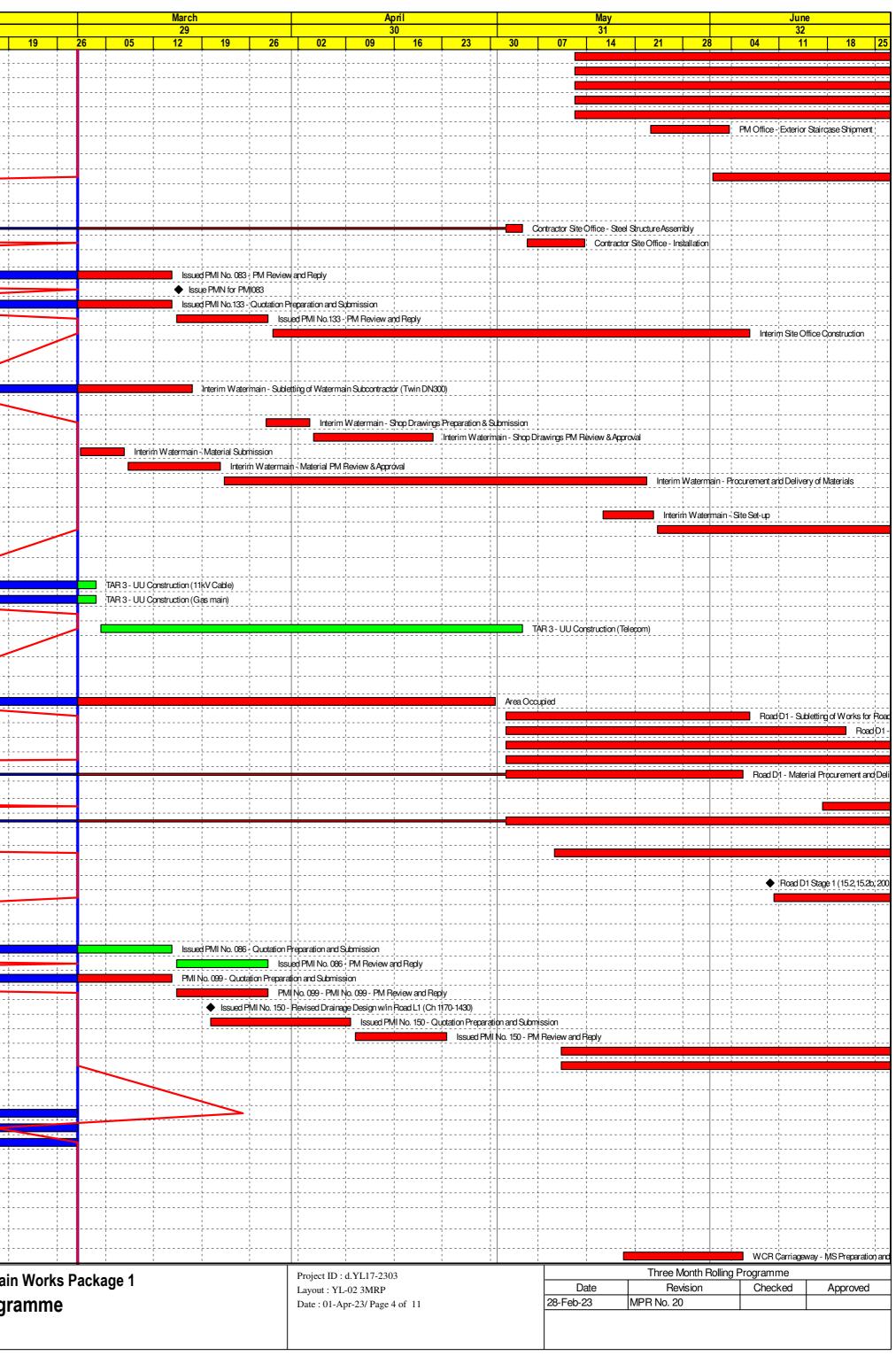
♦♦ Milestone

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	9	05	T
SO-1030	PM Office - Material Procurement and Production Steel Structure	46	12-May-23	07-Jul-23	04-Mar-22	30-Apr-22	-349			_ <b>_</b>
SO-1080	PM Office - Material Procurement Facade (Window and Cladding)	38	12-May-23	27-Jun-23	24-Mar-22	13-May-22	-332			
SO-1090	PM Office - Material Procurement MEP	38	12-May-23	27-Jun-23	24-Mar-22	13-May-22	-332			
SO-1100 SO-1110	PM Office - Material Procurement Interior Fittings & Flooring PM Office - Material Procurement Toilet	38	12-May-23 12-May-23	27-Jun-23 27-Jun-23	24-Mar-22 24-Mar-22	13-May-22 13-May-22	-332 -332			
SO-1410	PM Office - Exterior Staircase Shipment	10	23-May-23	03-Jun-23	12-Apr-22	26-Apr-22	-326			
Sewage Trea	atment Works - Major Equipment Fabrication & Delivery	198	01-Jun-23	15-Dec-23	01-Jun-23	15-Dec-23	0			
	urization System	198	01-Jun-23	15-Dec-23	01-Jun-23	15-Dec-23	0			
S8.EM-160	Procurement & Fabrication of DOU no. 1, 2 & 3	198	01-Jun-23*	15-Dec-23	01-Jun-23	15-Dec-23	0			
ite Office a	Ind Innohub	172	17-Feb-22 A	06-Jun-23	22-Feb-22	31-Dec-22	-61		1	
Contractor S	Site Office (Area Occupied)	364	17-Feb-22 A	13-May-23	22-Feb-22	05-Mar-22	-349			
SO-1450	Contractor Site Office - Steel Structure Assembly	7	17-Feb-22 A	04-May-23	22-Feb-22	24-Feb-22	-349			
SO-1460	Contractor Site Office - Installation	8	05-May-23	13-May-23*	25-Feb-22	05-Mar-22	-349			- 4 -
nterim Site (	Office for Contractor's Staff and Part of RSS Team	94	06-Oct-22 A	06-Jun-23	30-Sep-22	31-Dec-22	-61		· · · · · · · · · · · · · · · · · · ·	-
SO-1485	Issued PMI No. 083 - PM Review and Reply	14	06-Oct-22 A	14-Mar-23	14-Oct-22	27-Oct-22	-138			
SO-1486	Issue PMN for PMI083	0		15-Mar-23		27-Oct-22	-112	-		
SO-1488	Issued PMI No. 133 - Quotation Preparation and Submission	21	06-Jan-23 A	14-Mar-23	30-Sep-22	13-Oct-22	-152	_		
SO-1489	Issued PMI No.133 - PM Review and Reply	14	15-Mar-23	28-Mar-23	14-Oct-22	27-Oct-22	-152			
SO-1495	Interim Site Office Construction	54 74	29-Mar-23 31-Dec-22A	06-Jun-23* 07-Jul-23	28-Oct-22 20-Nov-21	31-Dec-22 29-Mar-22	-123 -169			
ey Date K	D1 - Interim Watermain		01-D00-22A	07-001-20	201100-21	2.5-10161-222	-100	<b>.</b>		
D1 - Sublet	iting	56	31-Dec-22A	17-Mar-23	24-Nov-21	10-Dec-21	-462			
D1-1002	Interim Watermain - Subletting of Watermain Subcontractor (Twin DN300)	56	31-Dec-22A	17-Mar-23	24-Nov-21	10-Dec-21	-462			- + -
D1 - Submi	issions	66	01-Mar-23	22-May-23	20-Nov-21	14-Feb-22	-373		1	
D1-1005	Interim Watermain - Shop Drawings Preparation & Submission	6	28-Mar-23	03-Apr-23	19-Jan-22	25-Jan-22	-348	1		
D1-1010	Interim Watermain - Shop Drawings PM Review & Approval	12	04-Apr-23	21-Apr-23	26-Jan-22	14-Feb-22	-348			
D1-1015	Interim Watermain - Material Submission	6	01-Mar-23	07-Mar-23	20-Nov-21	26-Nov-21	-373	ļ		
D1-1016	Interim Watermain - Material PM Review & Approval	12	08-Mar-23	21-Mar-23	27-Nov-21	10-Dec-21	-373	<b>.</b>		
D1-1020	Interim Watermain - Procurement and Delivery of Materials	48	22-Mar-23	22-May-23	11-Dec-21	14-Feb-22	-373	<b> </b> '		
D1 - Consti		43	16-May-23	07-Jul-23	08-Feb-22	29-Mar-22	-373	<b>.</b>		
D1-1025	Interim Watermain - Site Set-up	7	16-May-23	23-May-23	08-Feb-22	15-Feb-22	-373		   	
D1-1030	Interim Watermain - Excavation and Temporary Works	36	24-May-23	07-Jul-23	16-Feb-22	29-Mar-22	-373			
ey Date K	D2 - TAR 3	399	05-Dec-22A	16-Apr-24	08-Feb-22	15-Jul-23	-222			
D2 - Consti	ruction	399	05-Dec-22A	16-Apr-24	08-Feb-22	15-Jul-23	-222			-
D2-1060	TAR 3 - UU Construction (11kV Cable)	46	05-Dec-22A	03-Mar-23	15-May-23	17-May-23	59			
D2-1070	TAR 3 - UU Construction (Gas main)	24	15-Dec-22A	03-Mar-23	15-May-23	17-May-23	59			
D2-1080	TAR 3 - UU Construction (Twin DN300 Water main, as KD1)	272	16-May-23	16-Apr-24	08-Feb-22	06-Jan-23	-373			
D2-1090	TAR 3 - UU Construction (Telecom)	48	04-Mar-23	04-May-23	18-May-23	15-Jul-23	59			
ey Date K	D3 - Road D1 and L1	288	25-Jan-22 A	12-Mar-24	30-Jan-22	31-Jul-23	-88		1 1 1	
D3 - ROAD	) D1 Construction	288	25-Jan-22 A	12-Mar-24	30-Jan-22	04-Jul-23	-98			-
(D3 - D1 - Si	ubmissions	185	21-Feb-22 A	13-Jul-23	30-Jan-22	17-Jun-22	-145			
KD3-0900	Area Occupied	403	22-Feb-22 A	30-Apr-23	30-Jan-22	31-Mar-22	-395			
KD3-1000	Road D1 - Subletting of Works for Road D1	30	02-May-23	06-Jun-23	01-Apr-22	12-May-22	-316			
KD3-1005	Road D1 - Design & MS Site Formation Prep & Submit(7d), PM Review(21d), Resubmission(6d), Approval(14d)	42	02-May-23	20-Jun-23	01-Apr-22	26-May-22	-316			
KD3-1010	Road D1 - Design & MS Drainage Prep & Submit(15d), PM Review(21d), Resubmission(10d), Approval(14d)	60	02-May-23	13-Jul-23	01-Apr-22	17-Jun-22	-316			
KD3-1015	Road D1 - Design & MS Watermains Prep & Submit(15d), PM Review(21d), Resubmission(10d), Approval(14d)	60	02-May-23	13-Jul-23	01-Apr-22	17-Jun-22	-316		; ;	
KD3-1035	Road D1 - Material Procurement and Delivery	30 288	21-Feb-22 A 25-Jan-22 A	05-Jun-23	14-May-22 26-Feb-22	17-Jun-22 04-Jul-23	-285			
	CM Works at Portion 7 (Area Occupied - Partial)	200	20-Jd1-22 A	12-Mar-24	20-F80-22	04-00-20	-30	4	1	1
S7-1425 S7-1435	Portion 7 - Surcharging Works		17 1 00	1014 01						
3/-1430	Partian 7 DOMWarka	270	17-Jun-23	12-Mar-24	08-Oct-22	04-Jul-23	-252			
	Portion 7 - DCM Works	274	25-Jan-22 A	08-Mar-24	26-Feb-22	05-Jan-23	-252 -345		4	
(D3 - D1 - Co	onstruction (Area Occupied - Partial)	274 128	25-Jan-22 A 09-May-23	08-Mar-24 10-Oct-23	26-Feb-22 31-May-22	05-Jan-23	-252 -345 -265			
<b>(D3 - D1 - Co</b> KD3-1455	onstruction (Area Occupied - Partial) Portion 7 - Complete Box Culvert A1	274	25-Jan-22 A	08-Mar-24 10-Oct-23 10-Oct-23	26-Feb-22 31-May-22 15-Jun-22	05-Jan-23	-252 -345 -265			
<b>(D3 - D1 - Co</b> KD3-1455	Distruction (Area Occupied - Partial)         Portion 7 - Complete Box Culvert A1         D1 Stage 1 (Road Next to Portion 15.2 and 15.2b)	274 128 128	25-Jan-22 A 09-May-23 09-May-23	08-Mar-24 10-Oct-23	26-Feb-22 31-May-22	05-Jan-23 15-Nov-22 15-Nov-22 17-Jun-22	-252 -345 -265			
<b>(D3 - D1 - Co</b> KD3-1455 <b>KD3 - Road E</b>	onstruction (Area Occupied - Partial) Portion 7 - Complete Box Culvert A1	274 128 128 128	25-Jan-22 A 09-May-23 09-May-23	08-Mar-24 10-Oct-23 10-Oct-23 27-Jun-23	26-Feb-22 31-May-22 15-Jun-22	05-Jan-23 15-Nov-22 15-Nov-22	-252 -345 -265 -265 -265			
KD3 - D1 - CC KD3 1455 KD3 - Road E KD3 - 2684 KD3 - 2685	Image: Destruction (Area Occupied - Partial)         Portion 7 - Complete Box Culvert A1         Image: D1 Stage 1 (Road Next to Portion 15.2 and 15.2b)         Road D1 Stage 1 (15.2,15.2b, 200,m) - DCM Complete (15.2,15.2b)	274 128 128 14 0	25-Jan-22 A 09-May-23 09-May-23 09-Jun-23	08-Mar-24 10-Oct-23 10-Oct-23 27-Jun-23 09-Jun-23	26-Feb-22 31-May-22 15-Jun-22 31-May-22	05-Jan-23 15-Nov-22 15-Nov-22 17-Jun-22 31-May-22	-252 -345 -265 -265 -303 -303			
<b>KD3 - D1 - Cc</b> KD3-1455 <b>KD3 - Road E</b> KD3-2684 KD3-2685 <b>D3 - ROAD</b>	Interface Security of Area Occupied - Partial)         Portion 7 - Complete Box Culvert A1         D1 Stage 1 (Road Next to Portion 15.2 and 15.2b)         Road D1 Stage 1 (15.2, 15.2b, 200,m) - DCM Complete (15.2, 15.2b)         Road D1 Stage 1 (15.2, 15.2b, 200,m) - Site Formation         D L1 Construction	274 128 128 14 0 14	25-Jan-22 A 09-May-23 09-May-23 09-Jun-23 10-Jun-23	08-Mar-24 10-Oct-23 10-Oct-23 <b>27-Jun-23</b> 09-Jun-23 27-Jun-23	26-Feb-22 31-May-22 15-Jun-22 31-May-22 01-Jun-22	05-Jan-23 15-Nov-22 15-Nov-22 17-Jun-22 31-May-22 17-Jun-22	-252 -345 -265 -265 -265 -303 -303			
(D3 - D1 - Cc (KD3-1455 (KD3 - Road I (KD3-2684 (KD3-2685 (D3 - ROAD (D3 - L1 - Su	Image: Second struction (Area Occupied - Partial)         Portion 7 - Complete Box Culvert A1         D1 Stage 1 (Road Next to Portion 15.2 and 15.2b)         Road D1 Stage 1 (15.2, 15.2b, 200,m) - DCM Complete (15.2, 15.2b)         Road D1 Stage 1 (15.2, 15.2b, 200,m) - Site Formation         D L1 Construction         ubmissions	274 128 128 14 0 14 14 125 110	25-Jan-22 A 09-May-23 09-Jun-23 09-Jun-23 10-Jun-23 17-Sep-22 A 17-Sep-22 A	08-Mar-24 10-Oct-23 10-Oct-23 27-Jun-23 09-Jun-23 27-Jun-23 05-Aug-23 04-Jul-23	26-Feb-22 31-May-22 15-Jun-22 31-May-22 01-Jun-22 23-Feb-23 23-Feb-23	05-Jan-23 15-Nov-22 15-Nov-22 17-Jun-22 31-May-22 17-Jun-22 31-Jul-23 06-Jun-23	-252 -345 -265 -265 -265 -303 -303 -303 -303 -303 -2 -2			
KD3 - D1 - Cc           KD3-1455           KD3 - Road I           KD3-2684           KD3-2685           D3 - ROAD           KD3 - L1 - Su           KD3-0106B	Interface Security of Area Occupied - Partial)         Portion 7 - Complete Box Culvert A1         D1 Stage 1 (Road Next to Portion 15.2 and 15.2b)         Road D1 Stage 1 (15.2, 15.2b, 200,m) - DCM Complete (15.2, 15.2b)         Road D1 Stage 1 (15.2, 15.2b, 200,m) - Site Formation         D L1 Construction	274 128 128 14 0 14 14 125	25-Jan-22 A 09-May-23 09-Jun-23 09-Jun-23 10-Jun-23 17-Sep-22 A	08-Mar-24 10-Oct-23 10-Oct-23 27-Jun-23 09-Jun-23 27-Jun-23 05-Aug-23	26-Feb-22 31-May-22 15-Jun-22 31-May-22 01-Jun-22 23-Feb-23	05-Jan-23 15-Nov-22 15-Nov-22 17-Jun-22 31-May-22 17-Jun-22 31-Jul-23	-252 -345 -265 -265 -265 -303 -303 -303 -303			
KD3 - D1 - Cc           KD3-1455           KD3 - Road I           KD3-2684           KD3-2685           D3 - ROAD           KD3 - L1 - SU           KD3-0106B           KD3-0106C	Image: Second struction (Area Occupied - Partial)         Portion 7 - Complete Box Culvert A1         D1 Stage 1 (Road Next to Portion 15.2 and 15.2b)         Road D1 Stage 1 (15.2, 15.2b, 200,m) - DCM Complete (15.2, 15.2b)         Road D1 Stage 1 (15.2, 15.2b, 200,m) - Site Formation         D L1 Construction         ubmissions         Issued PMI No. 086 - Quotation Preparation and Submission	274 128 128 14 0 14 14 125 125 110 21	25-Jan-22 A 09-May-23 09-May-23 09-Jun-23 10-Jun-23 10-Jun-23 17-Sap-22 A 17-Sap-22 A 17-Sap-22 A	08-Mar-24 10-Oct-23 10-Oct-23 <b>27-Jun-23</b> 09-Jun-23 27-Jun-23 05-Aug-23 04-Jul-23 14-Mar-23	26-Feb-22 31-May-22 15-Jun-22 31-May-22 01-Jun-22 23-Feb-23 23-Feb-23 10-May-23	05-Jan-23 15-Nov-22 15-Nov-22 31-May-22 31-May-22 31-Jul-23 06-Jun-23 23-May-23	-252 -345 -265 -265 -265 -303 -303 -303 -303 -303 -303 -303 -30			
KD3 - D1 - Cc           KD3-1455           KD3-2684           KD3-2685           D3 - ROAD           KD3-2685           C3 - ROAD           KD3-11 - Su           KD3-0106B           KD3-0120B	Introduction (Area Occupied - Partial)         Portion 7 - Complete Box Culvert A1         D1 Stage 1 (Road Next to Portion 15.2 and 15.2b)         Road D1 Stage 1 (15.2, 15.2b, 200,m) - DCM Complete (15.2, 15.2b)         Road D1 Stage 1 (15.2, 15.2b, 200,m) - Site Formation         D L1 Construction         ubmissions         Issued PMI No. 086 - Quotation Preparation and Submission         Issued PMI No. 086 - PM Review and Reply	274 128 128 14 0 14 14 14 125 110 21 21	25-Jan-22 A 09-May-23 09-Jun-23 09-Jun-23 10-Jun-23 17-Sep-22 A 17-Sep-22 A 17-Sep-22 A 17-Sep-22 A	08-Mar-24           10-Oct-23           10-Oct-23           27-Jun-23           09-Jun-23           27-Jun-23           06-Aug-23           04-Jul-23           14-Mar-23           28-Mar-23	26-Feb-22 31-May-22 15-Jun-22 31-May-22 01-Jun-22 23-Feb-23 23-Feb-23 10-May-23 24-May-23	05-Jan-23 15-Nov-22 15-Nov-22 31-May-22 31-Jun-22 31-Jun-22 31-Jun-23 06-Jun-23 06-Jun-23	-252 -345 -265 -265 -265 -303 -303 -303 -303 -303 -303 -303 -30			
KD3 - D1 - Cc           KD3-1455           KD3-2684           KD3-2685           D3 - ROAD           KD3-2685           C3 - ROAD           KD3-106B           KD3-0106C           KD3-0120C	Image: Struction (Area Occupied - Partial)         Portion 7 - Complete Box Culvert A1         D1 Stage 1 (Road Next to Portion 15.2 and 15.2b)         Road D1 Stage 1 (15.2, 15.2b, 200,m) - DCM Complete (15.2, 15.2b)         Road D1 Stage 1 (15.2, 15.2b, 200,m) - Site Formation         D L1 Construction         ubmissions         Issued PMI No. 086 - Quotation Preparation and Submission         Issued PMI No. 086 - PM Review and Reply         PMI No. 099 - Quotation Preparation and Submission	274 128 128 14 0 14 14 125 110 21 14 14 21	25-Jan-22 A 09-May-23 09-Jun-23 10-Jun-23 17-Sep-22 A 17-Sep-22 A 17-Sep-22 A 15-Mar-23 17-Oct-22 A	08-Mar-24           10-Oct-23           27-Jun-23           09-Jun-23           27-Jun-23           06-Aug-23           04-Jul-23           28-Mar-23           28-Mar-23           14-Mar-23	26-Feb-22 31-May-22 15-Jun-22 31-May-22 01-Jun-22 23-Feb-23 23-Feb-23 10-May-23 24-May-23 23-Feb-23	05-Jan-23 15-Nov-22 15-Nov-22 31-May-22 17-Jun-22 31-Jul-23 06-Jun-23 06-Jun-23 06-Jun-23 08-Mar-23	-252 -345 -265 -265 -265 -303 -303 -303 -303 -303 -303 -303 -30			
(D3 - D1 - CC (KD3-1455 (KD3 - Road I (KD3-2684 (KD3-2685 (D3 - ROAD (D3 - L1 - Su (KD3-0106B (KD3-0106C (KD3-0120C (KD3-0160A	Introduction (Area Occupied - Partial)         Portion 7 - Complete Box Culvert A1         D1 Stage 1 (Road Next to Portion 15.2 and 15.2b)         Road D1 Stage 1 (15.2, 15.2b, 200,m) - DCM Complete (15.2, 15.2b)         Road D1 Stage 1 (15.2, 15.2b, 200,m) - Site Formation         D L1 Construction         Ubmissions         Issued PMI No. 086 - Quotation Preparation and Submission         Issued PMI No. 086 - PM Review and Reply         PMI No. 099 - PMI No. 099 - PM Review and Reply	274 128 128 14 0 14 14 125 110 21 14 21 14 21 14	25-Jan-22 A 09-May-23 09-Jun-23 10-Jun-23 17-Sep-22 A 17-Sep-22 A 17-Sep-22 A 15-Mar-23 17-Oct-22 A	08-Mar-24           10-Oct-23           10-Oct-23           27-Jun-23           09-Jun-23           27-Jun-23           05-Aug-23           04-Jul-23           14-Mar-23           28-Mar-23           14-Mar-23           28-Mar-23	26-Feb-22 31-May-22 15-Jun-22 31-May-22 01-Jun-22 23-Feb-23 23-Feb-23 10-May-23 24-May-23 23-Feb-23	05-Jan-23 15-Nov-22 15-Nov-22 17-Jun-22 31-May-22 31-Jul-23 06-Jun-23 06-Jun-23 06-Jun-23 08-Mar-23 22-Mar-23	<ul> <li>-252</li> <li>-345</li> <li>-265</li> <li>-265</li> <li>-303</li> <li< td=""><td></td><td></td><td></td></li<></ul>			
KD3 - D1 - Cc           KD3-1455           KD3 - Road I           KD3-2685           D3 - ROAD           KD3-2685           D3 - ROAD           KD3-0106B           KD3-0106C           KD3-0120B           KD3-0120C           KD3-0160A           KD3-0160C           KD3-0160C	Image: Struction (Area Occupied - Partial)         Portion 7 - Complete Box Culvert A1         D1 Stage 1 (Road Next to Portion 15.2 and 15.2b)         Road D1 Stage 1 (152,152b, 200,m) - DCM Complete (152,152b)         Road D1 Stage 1 (15.2,152b, 200,m) - Site Formation         D L1 Construction         Ubmissions         Issued PMI No. 086 - Quotation Preparation and Submission         Issued PMI No. 086 - PM Review and Reply         PMI No. 099 - Quotation Preparation and Submission         PMI No. 099 - PM Review and Reply         Issued PMI No. 150 - Revised Drainage Design w/in Road L1 (Ch 1170-1430)         Issued PMI No. 150 - PM Review and Reply         Issued PMI No. 150 - PM Review and Reply	274 128 128 14 0 14 14 125 110 21 14 21 14 21 14 0 21 14	25-Jan-22 A 09-May-23 09-Jun-23 10-Jun-23 10-Jun-23 17-Sep-22 A 17-Sep-22 A 17-Sep-22 A 15-Mar-23 17-Oct-22 A 15-Mar-23 10-Apr-23	08-Mar-24           10-Oct-23           27-Jun-23           09-Jun-23           27-Jun-23           06-Aug-23           04-Jul-23           28-Mar-23           14-Mar-23           28-Mar-23           20-Mar-23           20-Mar-23           20-Mar-23           20-Mar-23           23-Apr-23	26-Feb-22 31-May-22 15-Jun-22 01-Jun-22 23-Feb-23 23-Feb-23 24-May-23 23-Feb-23 09-Mar-23 24-Mar-23 14-Apr-23	05-Jan-23 15-Nov-22 15-Nov-22 17-Jun-22 31-May-22 17-Jun-22 31-Jul-23 06-Jun-23 06-Jun-23 06-Jun-23 08-Mar-23 18-Mar-23 13-Apr-23 27-Apr-23	-252 -345 -265 -265 -303 -303 -303 -303 -303 -303 -303 -30			
KD3 - D1 - Cc           KD3-1455           KD3-2684           KD3-2685           D3 - ROAD           KD3-2686           KD3-2687           KD3-1008           KD3-0106C           KD3-0120C           KD3-0160A           KD3-0160C           KD3-0160C           KD3-0160C           KD3-0160C	Intruction (Area Occupied - Partial)         Portion 7 - Complete Box Culvert A1         D1 Stage 1 (Road Next to Portion 15.2 and 15.2b)         Road D1 Stage 1 (15.2, 15.2b, 200,m) - DCM Complete (15.2, 15.2b)         Road D1 Stage 1 (15.2, 15.2b, 200,m) - Site Formation         D L1 Construction         Ubmissions         Issued PMI No. 086 - Quotation Preparation and Submission         Issued PMI No. 086 - PM Review and Reply         PMI No. 099 - Quotation Preparation and Submission         PMI No. 099 - PM Review and Reply         Issued PMI No. 150 - Revised Drainage Design w/in Road L1 (Ch 1170-1430)         Issued PMI No. 150 - PM Review and Reply         Road L1 - Method Statement Road Paving & Marking Prep & Submit, PM Review , Resubmission , Appr or al	274 128 128 14 0 14 14 21 110 21 14 21 14 21 14 0 21 14 14 21 14 14 21 14	25-Jan-22 A 09-May-23 09-Jun-23 10-Jun-23 10-Jun-23 17-Sep-22 A 17-Sep-22 A 17-Sep-22 A 15-Mar-23 17-Oct-22 A 15-Mar-23 10-May-23 10-May-23	08-Mar-24           10-Oct-23           27-Jun-23           09-Jun-23           27-Jun-23           06-Aug-23           04-Jul-23           28-Mar-23           14-Mar-23           28-Mar-23           20-Mar-23*           09-Apr-23           23-Apr-23           04-Jul-23	26-Feb-22 31-May-22 15-Jun-22 01-Jun-22 23-Feb-23 23-Feb-23 24-May-23 23-Feb-23 09-Mar-23 24-Mar-23 14-Apr-23 25-Mar-23	05-Jan-23 15-Nov-22 15-Nov-22 31-May-22 17-Jun-22 31-Jun-22 31-Jun-23 06-Jun-23 06-Jun-23 08-Mar-23 22-Mar-23 18-Mar-23 13-Apr-23 27-Apr-23 22-May-23	-252 -345 -265 -265 -303 -303 -303 -303 -303 -303 -30 -11 70 -6 -6 -6 -6 -6 -6 -6 -6 -6 -6 -6 -6 -4 -4 -34			
(D3 - D1 - Cc)           KD3-1455           KD3-2684           KD3-2685           D3 - ROAD           (D3 - L1 - Su)           KD3-0106B           KD3-0120C           KD3-0120C           KD3-0160A           KD3-0160C           KD3-0160C           KD3-0160C           KD3-0160C           KD3-0160C           KD3-0160C           KD3-0160C           KD3-1190	Image: Struction (Area Occupied - Partial)         Portion 7 - Complete Box Culvert A1         D1 Stage 1 (Road Next to Portion 15.2 and 15.2b)         Road D1 Stage 1 (15.2,15.2b, 200,m) - DCM Complete (15.2,15.2b)         Road D1 Stage 1 (15.2,15.2b, 200,m) - Site Formation         D1 Construction         Ubmissions         Issued PMI No. 086 - Quotation Preparation and Submission         Issued PMI No. 086 - PM Review and Reply         PMI No. 099 - Quotation Preparation and Submission         Issued PMI No. 099 - PM Review and Reply         PMI No. 099 - PMI Review and Reply         Issued PMI No. 150 - Revised Drainage Design w/in Road L1 (Ch 1170-1430)         Issued PMI No. 150 - PM Review and Reply         Road D1 Stage PMI No. 150 - PM Review and Reply         Road D1 Stage PMI No. 150 - PM Review and Reply         Road D1 Stage PMI No. 150 - PM Review and Reply         Road PMI No. 150 - PM Review and Reply         Road D1 Stage PMI No. 150 - PM Review and Reply         Road L1 - Method Statement Road Paving & Marking Prep & Submit, PM Review , Resubmission , Appr oval         Road L1 - Method Statement Street Furniture Prep & Submit, PM Review , Resubmission , Appr oval	274 128 128 14 0 14 14 21 110 21 14 21 14 21 14 21 14 21 14 21 14 21 14 21 14 21 14 21 14 21 14 21 14 21 32 14 32 32 32 32 32 32 32 32 32 32 32 32 32	25-Jan-22 A 09-May-23 09-Jun-23 10-Jun-23 10-Jun-23 17-Sep-22 A 17-Sep-22 A 17-Sep-22 A 15-Mar-23 17-Oct-22 A 15-Mar-23 10-Apr-23 10-Apr-23 10-May-23	08-Mar-24 10-Oct-23 27-Jun-23 09-Jun-23 27-Jun-23 27-Jun-23 05-Aug-23 04-Jul-23 14-Mar-23 28-Mar-23 28-Mar-23 20-Mar-23 20-Mar-23 20-Mar-23 23-Apr-23 04-Jul-23 04-Jul-23	26-Feb-22 31-May-22 15-Jun-22 31-May-22 01-Jun-22 23-Feb-23 23-Feb-23 10-May-23 24-May-23 23-Feb-23 09-Mar-23 24-Mar-23 14-Apr-23 25-Mar-23 25-Mar-23	05-Jan-23 15-Nov-22 15-Nov-22 17-Jun-22 31-May-22 31-Jul-23 06-Jun-23 06-Jun-23 06-Jun-23 08-Mar-23 22-Mar-23 18-Mar-23 13-Apr-23 27-Apr-23 22-May-23 22-May-23	-252 -345 -265 -265 -303 -303 -303 -303 -303 -303 -303 -30			
(D3 - D1 - CC (KD3-1455 (KD3 - Road I (KD3-2684 (KD3-2685) D3 - ROAD (D3 - L1 - SU (KD3-0106) (KD3-0106) (KD3-0160) (KD3-0160) (KD3-0160) (KD3-0160) (KD3-0160) (KD3-0160) (KD3-0160) (KD3-0160) (KD3-119) (KD3-119) (CD3 - L1 - CC	Instruction (Area Occupied - Partial)         Portion 7 - Complete Box Culvert A1         D1 Stage 1 (Road Next to Portion 15.2 and 15.2b)         Road D1 Stage 1 (152,15.2b, 200,m) - DCM Complete (152,15.2b)         Road D1 Stage 1 (152,15.2b, 200,m) - Site Formation         D1 Construction         ubmissions         Issued PMI No. 086 - Quotation Preparation and Submission         Issued PMI No. 086 - PM Review and Reply         PMI No. 099 - Quotation Preparation and Submission         PMI No. 099 - PMI Review and Reply         Issued PMI No. 099 - PM Review and Reply         Issued PMI No. 150 - PM Review and Reply         Issued PMI No. 150 - Revised Drainage Design w/in Road L1 (Ch 1170-1430)         Issued PMI No. 150 - Quotation Preparation and Submission         Issued PMI No. 150 - PM Review and Reply         Road L1 - Method Statement Road Paving & Marking Prep & Submit, PM Review , Resubmission , Approval         Road L1 - Method Statement Street Furniture Prep & Submit, PM Review , Resubmission , Approval	274       128       128       128       14       0       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       21       21       14       21       14       21       14       21       14       21       14       21       21       14       21       14       21       14       45       201	25-Jan-22 A 09-May-23 09-Jun-23 10-Jun-23 10-Jun-23 17-Sep-22 A 17-Sep-22 A 17-Sep-22 A 15-Mar-23 17-Oct-22 A 15-Mar-23 10-Mar-23 10-May-23 10-May-23 10-May-23	08-Mar-24 10-Oct-23 10-Oct-23 27-Jun-23 09-Jun-23 27-Jun-23 05-Aug-23 04-Jul-23 14-Mar-23 28-Mar-23 28-Mar-23 20-Mar-23 20-Mar-23 09-Apr-23 23-Apr-23 04-Jul-23 04-Jul-23 04-Jul-23	26-Feb-22 31-May-22 15-Jun-22 31-May-22 01-Jun-22 23-Feb-23 23-Feb-23 10-May-23 24-May-23 23-Feb-23 09-Mar-23 24-Mar-23 25-Mar-23 25-Mar-23 01-Mar-23	05-Jan-23 15-Nov-22 15-Nov-22 17-Jun-22 31-May-22 31-Jul-23 06-Jun-23 06-Jun-23 06-Jun-23 08-Mar-23 22-Mar-23 18-Mar-23 13-Apr-23 27-Apr-23 22-May-23 22-May-23 22-May-23 31-Jul-23	-252 -345 -265 -265 -303 -303 -303 -303 -303 -303 -30 -11 70 70 -6 -6 -6 -6 -6 -6 -6 -6 -6 -6 -6 -4 -34 -34 -34 -34			
(D3 - D1 - Cc)           KD3-1455           KD3 - Road I           KD3-2685           D3 - ROAD           KD3-2685           D3 - ROAD           KD3-2685           D3 - ROAD           KD3-2685           D3 - L1 - Su           KD3-0106B           KD3-0120C           KD3-0120C           KD3-0160C           KD3-0160C           KD3-0160C           KD3-0160C           KD3-1190           KD3-1195           KD3 - L1 - Co           KD3 - Road I	Portion (Area Occupied - Partial)         Portion 7 - Complete Box Culvert A1         D1 Stage 1 (Road Next to Portion 15.2 and 15.2b)         Road D1 Stage 1 (15.2,15.2b, 200,m) - DCM Complete (15.2,15.2b)         Road D1 Stage 1 (15.2,15.2b, 200,m) - Site Formation         D1 Construction         ubmissions         Issued PMI No. 086 - Quotation Preparation and Submission         Issued PMI No. 086 - PM Review and Reply         PMI No. 099 - Quotation Preparation and Submission         PMI No. 099 - PMI No. 099 - PM Review and Reply         Issued PMI No. 150 - Revised Drairage Design win Road L1 (Ch 1170-1430)         Issued PMI No. 150 - Quotation Preparation and Submission         Issued PMI No. 150 - PM Review and Reply         Road L1 - Method Statement Road Paving & Marking Prep & Submit, PM Review , Resubmission , Appr oval         Road L1 - Method Statement Street Furniture Prep & Submit, PM Review , Resubmission , Appr oval         Road L1 - Method Statement Street Furniture Prep & Submit, PM Review , Resubmission , Appr oval         Road L1 - Method Statement Street Furniture Prep & Submit, PM Review , Resubmission , Appr oval         Road L1 - Method Statement Street Furniture Prep & Submit, PM Review , Resubmission , Appr oval         Road L1 - Method Statement Street Furniture Prep & Submit, PM Review , Resubmission , Appr oval         Road L1 - Method Statement Street Furniture Prep & Submit, PM Review , Resubmission , Appr oval	274       128       128       128       14       0       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       21       21       14       21       14       21   <	25-Jan-22 A 09-May-23 09-Jan-23 10-Jan-23 10-Jan-23 17-Sep-22 A 17-Sep-22 A 17-Sep-22 A 15-Mar-23 17-Oct-22 A 15-Mar-23 10-May-23 10-May-23 10-May-23 10-May-23 22-Nov-22A	08-Mar-24           10-Oct-23           27-Jun-23           09-Jun-23           27-Jun-23           07-Jun-23           27-Jun-23           06-Aug-23           04-Jul-23           28-Mar-23           14-Mar-23           28-Mar-23           20-Mar-23*           09-Apr-23           23-Apr-23           04-Jul-23           05-Aug-23           05-Aug-23	26-Feb-22 31-May-22 15-Jun-22 01-Jun-22 23-Feb-23 23-Feb-23 24-May-23 24-May-23 23-Feb-23 09-Mar-23 24-Mar-23 25-Mar-23 25-Mar-23 01-Mar-23 01-Mar-23	05-Jan-23 15-Nov-22 15-Nov-22 17-Jun-22 31-May-22 17-Jun-22 31-Jul-23 06-Jun-23 06-Jun-23 06-Jun-23 08-Mar-23 22-Mar-23 13-Apr-23 27-Apr-23 22-May-23 22-May-23 31-Jul-23	-252         -345         -265         -303         -303         -303         -303         -303         -303         -11         70         70         70         6         -6         0         4         4         -34         -34         -34         -34         -5         -5			
(D3 - D1 - CC KD3-1455 KD3 - Road I KD3-2684 KD3-2684 KD3-2685 D3 - ROAD (D3 - L1 - SU KD3-0106C KD3-0120C KD3-0120C KD3-0160C KD3-0160C KD3-0160C KD3-1190 KD3-1195 (D3 - L1 - CC KD3 - Road I KD3-5315	Image: Struction (Area Occupied - Partial)         Portion 7 - Complete Box Culvert A1         Image: Stage 1 (Road Next to Portion 15.2 and 15.2b)         Road D1 Stage 1 (15.2,15.2b, 200,m) - DCM Complete (15.2,15.2b)         Road D1 Stage 1 (15.2,15.2b, 200,m) - Site Formation         Image: Display 1 (15.2, 15.2b, 200,m) - Site Formation         Image: Display 1 (15.2, 15.2b, 200,m) - Site Formation         Image: Display 1 (15.2, 15.2b, 200,m) - Site Formation         Image: Display 1 (15.2, 15.2b, 200,m) - Site Formation         Image: Display 1 (15.2, 15.2b, 200,m) - Site Formation         Image: Display 1 (15.2, 15.2b, 200,m) - Site Formation         Image: Display 1 (15.2, 15.2b, 200,m) - Site Formation         Image: Display 1 (15.2, 15.2b, 200,m) - Site Formation         Image: Display 1 (15.2, 15.2b, 200,m) - Site Formation         Image: Display 1 (15.2, 15.2b, 200,m) - Site Formation         Image: Display 1 (15.2, 15.2b, 200,m) - Site Formation         Image: Display 1 (15.2, 15.2b, 200,m) - Site Formation         Image: Display 1 (15.2, 15.2b, 200,m) - Site Formation         Image: Display 1 (15.2, 15.2b, 200,m) - Site Formation         Image: Display 1 (15.2, 15.2b, 200,m)	274       128       128       128       14       0       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       21       21       14       21   <	25-Jan-22 A 09-May-23 09-Jan-23 10-Jan-23 10-Jan-23 17-Sep-22 A 17-Sep-22 A 17-Sep-22 A 15-Mar-23 17-Oct-22 A 15-Mar-23 10-May-23 10-May-23 10-May-23 10-May-23 22-Nov-22A 22-Nov-22A	08-Mar-24           10-Oct-23           10-Oct-23           27-Jun-23           09-Jun-23           27-Jun-23           06-Aug-23           04-Jul-23           28-Mar-23           28-Mar-23           20-Mar-23*           09-Apr-23           23-Apr-23           04-Jul-23           05-Aug-23           20-Mar-23*           09-Apr-23           23-Apr-23           04-Jul-23           05-Aug-23	26-Feb-22 31-May-22 15-Jun-22 01-Jun-22 23-Feb-23 23-Feb-23 10-May-23 24-May-23 23-Feb-23 09-Mar-23 24-Mar-23 25-Mar-23 25-Mar-23 25-Mar-23 01-Mar-23 01-Mar-23	05-Jan-23 15-Nov-22 15-Nov-22 17-Jun-22 31-May-22 17-Jun-22 31-Jul-23 06-Jun-23 06-Jun-23 06-Jun-23 06-Jun-23 23-May-23 22-Mar-23 13-Apr-23 27-Apr-23 22-May-23 22-May-23 22-May-23 31-Jul-23 31-Jul-23	-252         -345         -265         -303         -303         -303         -303         -303         -303         -303         -303         -303         -303         -303         -303         -303         -11         70         -6         0         -6         0         4         -34         -34         -34         -34         -5         16			
(D3 - D1 - CC KD3-1455 KD3 - Road I KD3-2684 KD3-2684 KD3-2685 D3 - ROAD (D3 - L1 - SU KD3-0106 KD3-0120C KD3-0120C KD3-0160A KD3-0160A KD3-0160C KD3-0160C KD3-1195 (D3 - L1 - CC KD3 - Road L KD3-5315 KD3-5325	Image: Struction (Area Occupied - Partial)         Portion 7 - Complete Box Culvert A1         Image: Stage 1 (Road Next to Portion 15.2 and 15.2b)         Road D1 Stage 1 (15.2, 15.2b, 200,m) - DCM Complete (15.2, 15.2b)         Road D1 Stage 1 (15.2, 15.2b, 200,m) - Site Formation         Image: Display 1 (15.2, 15.2b, 200,m) - Site Formation         Image: Display 1 (15.2, 15.2b, 200,m) - Site Formation         Image: Display 1 (15.2, 15.2b, 200,m) - Site Formation         Image: Display 1 (15.2, 15.2b, 200,m) - Site Formation         Image: Display 1 (15.2, 15.2b, 200,m) - Site Formation         Image: Display 1 (15.2, 15.2b, 200,m) - Site Formation         Image: Display 1 (15.2, 15.2b, 200,m) - Site Formation         Image: Display 1 (15.2, 15.2b, 200,m) - Site Formation         Image: Display 1 (15.2, 15.2b, 200,m) - Site Formation         Image: Display 1 (15.2, 15.2b, 200,m) - Site Formation         Image: Display 1 (15.2, 15.2b, 200,m) - Site Formation         Image: Display 1 (15.2, 15.2b, 200,m) - Site Formation         Image: Display 1 (15.2, 15.2b, 200,m) - Site Formation         Image: Display 1 (15.2, 15.2b, 200,m) - Site Formation         Image: Display 1 (15.2, 15.2b, 200,m)         Image: Display 1 (15.2, 15.2b, 200,m) <t< td=""><td>274       128       128       128       14       0       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       21       21       14       21       14       21   &lt;</td><td>25-Jan-22 A 09-May-23 09-Jun-23 10-Jun-23 10-Jun-23 17-Sep-22 A 17-Sep-22 A 17-Sep-22 A 15-Mar-23 17-Oct-22 A 15-Mar-23 10-May-23 10-May-23 10-May-23 10-May-23 22-Nov-22A 22-Nov-22A 02-Feb-23 A</td><td>08-Mar-24           10-Oct-23           10-Oct-23           27-Jun-23           09-Jun-23           27-Jun-23           05-Aug-23           04-Jul-23           28-Mar-23           28-Mar-23           20-Mar-23*           09-Apr-23           23-Apr-23           04-Jul-23           25-Jul-23</td><td>26-Feb-22 31-May-22 15-Jun-22 31-May-22 01-Jun-22 23-Feb-23 23-Feb-23 10-May-23 24-May-23 23-Feb-23 09-Mar-23 23-Feb-23 09-Mar-23 25-Mar-23 25-Mar-23 01-Mar-23 01-Mar-23 01-Mar-23</td><td>05-Jan-23 15-Nov-22 15-Nov-22 17-Jun-22 31-May-22 17-Jun-22 31-Jul-23 06-Jun-23 06-Jun-23 06-Jun-23 06-Jun-23 06-Jun-23 08-Mar-23 22-Mar-23 13-Apr-23 22-May-23 22-May-23 22-May-23 31-Jul-23 31-Jul-23 31-Jul-23</td><td>-252         -345         -265         -303         -303         -303         -303         -303         -303         -303         -303         -303         -303         -303         -303         -11         70         70         -6         0         -6         0         4         -34         -34         -34         -34         -5         16         5</td><td></td><td></td><td></td></t<>	274       128       128       128       14       0       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       21       21       14       21       14       21   <	25-Jan-22 A 09-May-23 09-Jun-23 10-Jun-23 10-Jun-23 17-Sep-22 A 17-Sep-22 A 17-Sep-22 A 15-Mar-23 17-Oct-22 A 15-Mar-23 10-May-23 10-May-23 10-May-23 10-May-23 22-Nov-22A 22-Nov-22A 02-Feb-23 A	08-Mar-24           10-Oct-23           10-Oct-23           27-Jun-23           09-Jun-23           27-Jun-23           05-Aug-23           04-Jul-23           28-Mar-23           28-Mar-23           20-Mar-23*           09-Apr-23           23-Apr-23           04-Jul-23           25-Jul-23	26-Feb-22 31-May-22 15-Jun-22 31-May-22 01-Jun-22 23-Feb-23 23-Feb-23 10-May-23 24-May-23 23-Feb-23 09-Mar-23 23-Feb-23 09-Mar-23 25-Mar-23 25-Mar-23 01-Mar-23 01-Mar-23 01-Mar-23	05-Jan-23 15-Nov-22 15-Nov-22 17-Jun-22 31-May-22 17-Jun-22 31-Jul-23 06-Jun-23 06-Jun-23 06-Jun-23 06-Jun-23 06-Jun-23 08-Mar-23 22-Mar-23 13-Apr-23 22-May-23 22-May-23 22-May-23 31-Jul-23 31-Jul-23 31-Jul-23	-252         -345         -265         -303         -303         -303         -303         -303         -303         -303         -303         -303         -303         -303         -303         -11         70         70         -6         0         -6         0         4         -34         -34         -34         -34         -5         16         5			
(D3 - D1 - CC KD3-1455 KD3 - Road I KD3-2684 KD3-2684 KD3-2685 D3 - ROAD (D3 - L1 - SU KD3-0106C KD3-0120C KD3-0120C KD3-0160C KD3-0160C KD3-0160C KD3-1190 KD3-1195 (D3 - L1 - CC KD3 - Road I KD3-5315	Image: Struction (Area Occupied - Partial)         Portion 7 - Complete Box Culvert A1         Image: Stage 1 (Road Next to Portion 15.2 and 15.2b)         Road D1 Stage 1 (15.2,15.2b, 200,m) - DCM Complete (15.2,15.2b)         Road D1 Stage 1 (15.2,15.2b, 200,m) - Site Formation         Image: Display 1 (15.2, 15.2b, 200,m) - Site Formation         Image: Display 1 (15.2, 15.2b, 200,m) - Site Formation         Image: Display 1 (15.2, 15.2b, 200,m) - Site Formation         Image: Display 1 (15.2, 15.2b, 200,m) - Site Formation         Image: Display 1 (15.2, 15.2b, 200,m) - Site Formation         Image: Display 1 (15.2, 15.2b, 200,m) - Site Formation         Image: Display 1 (15.2, 15.2b, 200,m) - Site Formation         Image: Display 1 (15.2, 15.2b, 200,m) - Site Formation         Image: Display 1 (15.2, 15.2b, 200,m) - Site Formation         Image: Display 1 (15.2, 15.2b, 200,m) - Site Formation         Image: Display 1 (15.2, 15.2b, 200,m) - Site Formation         Image: Display 1 (15.2, 15.2b, 200,m) - Site Formation         Image: Display 1 (15.2, 15.2b, 200,m) - Site Formation         Image: Display 1 (15.2, 15.2b, 200,m) - Site Formation         Image: Display 1 (15.2, 15.2b, 200,m)	274       128       128       128       14       0       14       125       14       125       14       125       14       125       14       125       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       21       21       14       21       22       21 <td>25-Jan-22 A 09-May-23 09-Jan-23 10-Jan-23 10-Jan-23 17-Sep-22 A 17-Sep-22 A 17-Sep-22 A 15-Mar-23 17-Oct-22 A 15-Mar-23 10-May-23 10-May-23 10-May-23 10-May-23 22-Nov-22A 22-Nov-22A</td> <td>08-Mar-24           10-Oct-23           10-Oct-23           27-Jun-23           09-Jun-23           27-Jun-23           06-Aug-23           04-Jul-23           28-Mar-23           28-Mar-23           20-Mar-23*           09-Apr-23           23-Apr-23           04-Jul-23           05-Aug-23           20-Mar-23*           09-Apr-23           23-Apr-23           04-Jul-23           05-Aug-23           05-Aug-23</td> <td>26-Feb-22 31-May-22 15-Jun-22 01-Jun-22 23-Feb-23 23-Feb-23 24-May-23 24-May-23 23-Feb-23 09-Mar-23 24-Mar-23 25-Mar-23 25-Mar-23 25-Mar-23 01-Mar-23 01-Mar-23</td> <td>05-Jan-23 15-Nov-22 15-Nov-22 17-Jun-22 31-May-22 17-Jun-22 31-Jul-23 06-Jun-23 06-Jun-23 06-Jun-23 06-Jun-23 18-Mar-23 13-Apr-23 22-May-23 22-May-23 22-May-23 22-May-23 31-Jul-23 31-Jul-23</td> <td>-252         -345         -265         -303         -303         -303         -303         -303         -303         -303         -303         -303         -303         -303         -303         -303         -11         70         -6         0         -6         0         4         -34         -34         -34         -34         -5         16</td> <td></td> <td></td> <td></td>	25-Jan-22 A 09-May-23 09-Jan-23 10-Jan-23 10-Jan-23 17-Sep-22 A 17-Sep-22 A 17-Sep-22 A 15-Mar-23 17-Oct-22 A 15-Mar-23 10-May-23 10-May-23 10-May-23 10-May-23 22-Nov-22A 22-Nov-22A	08-Mar-24           10-Oct-23           10-Oct-23           27-Jun-23           09-Jun-23           27-Jun-23           06-Aug-23           04-Jul-23           28-Mar-23           28-Mar-23           20-Mar-23*           09-Apr-23           23-Apr-23           04-Jul-23           05-Aug-23           20-Mar-23*           09-Apr-23           23-Apr-23           04-Jul-23           05-Aug-23	26-Feb-22 31-May-22 15-Jun-22 01-Jun-22 23-Feb-23 23-Feb-23 24-May-23 24-May-23 23-Feb-23 09-Mar-23 24-Mar-23 25-Mar-23 25-Mar-23 25-Mar-23 01-Mar-23 01-Mar-23	05-Jan-23 15-Nov-22 15-Nov-22 17-Jun-22 31-May-22 17-Jun-22 31-Jul-23 06-Jun-23 06-Jun-23 06-Jun-23 06-Jun-23 18-Mar-23 13-Apr-23 22-May-23 22-May-23 22-May-23 22-May-23 31-Jul-23 31-Jul-23	-252         -345         -265         -303         -303         -303         -303         -303         -303         -303         -303         -303         -303         -303         -303         -303         -11         70         -6         0         -6         0         4         -34         -34         -34         -34         -5         16			
(D3 - D1 - CC KD3-1455 KD3 - Road I KD3-2684 KD3-2685 D3 - ROAD (D3 - L1 - SU KD3-0106B KD3-0106C KD3-0120C KD3-0160A KD3-0160A KD3-0160C KD3-0160C KD3-1190 KD3-1195 (D3 - L1 - CC KD3 - Road L KD3-5315 KD3-5325 KD3-5327	Image: Struction (Area Occupied - Partial)         Portion 7 - Complete Box Culvert A1         D1 Stage 1 (Road Next to Portion 15.2 and 15.2b)         Road D1 Stage 1 (15.2, 15.2b, 200,m) - DCM Complete (15.2, 15.2b)         Road D1 Stage 1 (15.2, 15.2b, 200,m) - Site Formation         D L1 Construction         ubmissions         Issued PMI No. 086 - Quotation Preparation and Submission         Issued PMI No. 086 - Quotation Preparation and Submission         Issued PMI No. 086 - PM Review and Reply         PMI No. 099 - Quotation Preparation and Submission         Issued PMI No. 086 - PM Review and Reply         Issued PMI No. 087 - PMI Review and Reply         Issued PMI No. 086 - PM Review and Reply         Issued PMI No. 089 - PMI Review and Reply         Issued PMI No. 150 - Revised Drainage Design w/in Road L1 (Ch 1170-1430)         Issued PMI No. 150 - PM Review and Reply         Road L1 - Method Statement Road Paving & Marking Prep & Submit, PM Review , Resubmission , Appr oval         Road L1 - Method Statement Street Furniture Prep & Submit, PM Review , Resubmission , Appr oval         Road L1 - Method Statement Street Furniture Prep & Submit, PM Review , Resubmission , Appr oval         Road L1 - Method Statement Street Furniture Prep & Submit, PM Review , Resubmission , Appr oval         Portion 18C, Road L1 (CH1170-1430) - Stage 1 (Building 11)         Portion 18C, Road L1 (CH1170-1430) - Stage 2 (Building	274       128       128       128       14       0       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       0       21       14       0       21       14       0       21       14       0       21       14       21       14       21       14       21       14       10       201       106       39	25-Jan-22 A 09-May-23 09-Jun-23 10-Jun-23 10-Jun-23 17-Sep-22 A 17-Sep-22 A 17-Sep-22 A 15-Mar-23 17-Oct-22 A 15-Mar-23 20-Mar-23 10-Agr-23 10-Agr-23 10-May-23 22-Nov-22A 22-Nov-22A 22-Nov-22A 22-Nov-22A 16-Jan-23 A	08-Mar-24           10-Oct-23           10-Oct-23           27-Jun-23           09-Jun-23           27-Jun-23           05-Aug-23           04-Jul-23           28-Mar-23           14-Mar-23           28-Mar-23           20-Mar-23*           09-Apr-23           23-Apr-23           04-Jul-23           05-Aug-23           14-Mar-23           28-Mar-23           20-Mar-23*           09-Apr-23           23-Apr-23           04-Jul-23           04-Jul-23           05-Aug-23           12-Jul-23           25-Jul-23           25-Jul-23           05-Aug-23	26-Feb-22 31-May-22 15-Jun-22 31-May-22 01-Jun-22 23-Feb-23 23-Feb-23 09-Mar-23 24-May-23 23-Feb-23 09-Mar-23 25-Mar-23 25-Mar-23 25-Mar-23 01-Mar-23 01-Mar-23 01-Mar-23 12-Apr-23	05-Jan-23 15-Nov-22 15-Nov-22 17-Jun-22 31-May-22 17-Jun-22 31-Jul-23 06-Jun-23 06-Jun-23 06-Jun-23 06-Jun-23 08-Mar-23 22-Mar-23 13-Apr-23 22-May-23 22-May-23 22-May-23 31-Jul-23 31-Jul-23 31-Jul-23 31-Jul-23	-252 -345 -265 -265 -303 -303 -303 -303 -303 -303 -30 -30 -			
(D3 - D1 - Cc)           KD3-1455           KD3 - Road I           KD3-2684           KD3-2685           D3 - ROAD           (D3 - L1 - Su)           KD3-0106B           KD3-0106C           KD3-0120C           KD3-0160A           KD3-0160C           KD3-0160C           KD3-0160C           KD3-1190           KD3-1195           CD3 - L1 - Cc           KD3 - S325           KD3-5315           KD3-5325           KD3-5327           KD3-5329	Image: Struction (Area Occupied - Partial)           Portion 7 - Complete Box Culvert A1           D1 Stage 1 (Road Next to Portion 15.2 and 15.2b)           Road D1 Stage 1 (15.2,15.2b, 200,m) - DCM Complete (15.2,15.2b)           Road D1 Stage 1 (15.2,15.2b, 200,m) - DCM Complete (15.2,15.2b)           Road D1 Stage 1 (15.2,15.2b, 200,m) - DCM Complete (15.2,15.2b)           Road D1 Stage 1 (15.2,15.2b, 200,m) - Ste Formation           D1 Construction           Ubmissions           Issued PMI No. 086 - Quotation Preparation and Submission           Issued PMI No. 086 - Quotation Preparation and Submission           Issued PMI No. 086 - PM Review and Reply           PMI No. 099 - Quotation Preparation and Submission           Issued PMI No. 099 - PM Review and Reply           Issued PMI No. 150 - Revised Drainage Design w/in Road L1 (Ch 1170-1430)           Issued PMI No. 150 - Revised Drainage Design w/in Road L1 (Ch 1170-1430)           Issued PMI No. 150 - PM Review and Reply           Road L1 - Method Statement Road Paving & Marking Prep & Submit, PM Review , Resubmission , Appr oval           Road L1 - Method Statement Street Furniture Prep & Submit, PM Review , Resubmission , Appr oval           Road L1 - Method Statement Street Furniture Prep & Submit, PM Review , Resubmission , Appr oval           Road L1 - Method Statement Street Furniture Prep & Submit, PM Review , Resubmission , Appr oval           Portion 18C Road L1 (CH1170-1430) - Stage 1	274       128       128       128       14       0       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       0       21       14       0       21       14       0       21       14       0       21       14       39       123	25-Jan-22 A 09-May-23 09-Jun-23 10-Jun-23 10-Jun-23 17-Sep-22 A 17-Sep-22 A 17-Sep-22 A 15-Mar-23 17-Oct-22 A 15-Mar-23 20-Mar-23 10-Apr-23 10-Apr-23 10-May-23 22-Nov-22 A 22-Nov-22 A 22-Nov-22 A 02-Feb-23 A 16-Jan-23 A 01-Mar-23	08-Mar-24           10-Oct-23           10-Oct-23           27-Jun-23           09-Jun-23           27-Jun-23           05-Aug-23           04-Jul-23           28-Mar-23           14-Mar-23           28-Mar-23           04-Jul-23           20-Mar-23*           09-Apr-23           23-Apr-23           04-Jul-23           05-Aug-23           28-Mar-23           20-Mar-23*           09-Apr-23           25-Apr-23           04-Jul-23           05-Aug-23           05-Aug-23           05-Aug-23           12-Jul-23           25-Jul-23           05-Aug-23           31-Jul-23	26-Feb-22 31-May-22 15-Jun-22 01-Jun-22 23-Feb-23 23-Feb-23 10-May-23 24-May-23 23-Feb-23 09-Mar-23 24-Mar-23 25-Mar-23 25-Mar-23 01-Mar-23 01-Mar-23 01-Mar-23 01-Mar-23 01-Mar-23 01-Mar-23	05-Jan-23 15-Nov-22 15-Nov-22 31-May-22 31-May-22 31-Jul-23 06-Jun-23 06-Jun-23 06-Jun-23 06-Jun-23 08-Mar-23 22-Mar-23 13-Apr-23 22-Mar-23 22-May-23 22-May-23 22-May-23 31-Jul-23 31-Jul-23 31-Jul-23 31-Jul-23	-252         -345         -265         -303         -303         -303         -303         -303         -303         -303         -303         -303         -303         -303         -303         -303         -303         -72         -303         -303         -30         -6         -6         -6         -6         -6         -6         -6         -6         -70         70         70         70         -6         -6         -6         -6         -70         -70         -70         -6         -6         -70         -70         -6         -70         -70         -70         -74         -34         -5         -5         -5         -5<			
<ul> <li>(D3 - D1 - Cc</li> <li>(KD3-1455)</li> <li>(KD3 - Road I</li> <li>(KD3-2685)</li> <li>(C3 - ROAD</li> <li>(C3 - ROAD</li> <li>(C3 - L1 - Su</li> <li>(KD3-0106B)</li> <li>(KD3-0106C)</li> <li>(KD3-0120C)</li> <li>(KD3-0160C)</li> <li>(KD3-0160C)</li> <li>(KD3-0160C)</li> <li>(KD3-0160C)</li> <li>(KD3-0160C)</li> <li>(KD3-0160C)</li> <li>(KD3-1190)</li> <li>(KD3-1190)</li> <li>(KD3 - L1 - Cc)</li> <li>(KD3 - L1 - Cc)</li> <li>(KD3 - Si315)</li> <li>(KD3-5327)</li> <li>(KD3-5332)</li> <li>(KD3-5331)</li> </ul>	Image: Struction (Area Occupied - Partial)         Portion 7 - Complete Box Culvert A1         DI Stage 1 (Road Next to Portion 15.2 and 15.2b)         Road D1 Stage 1 (152,152b, 200,m) - DCM Complete (152,152b)         Road D1 Stage 1 (152,152b, 200,m) - DCM Complete (152,152b)         Road D1 Stage 1 (152,152b, 200,m) - DCM Complete (152,152b)         Road D1 Stage 1 (152,152b, 200,m) - Site Formation         DL1 Construction         Jubmissions         Issued PMI No. 086 - Quotation Preparation and Submission         Issued PMI No. 086 - PM Review and Reply         PMI No. 099 - Quotation Preparation and Submission         PMI No. 099 - PMI Review and Reply         Issued PMI No. 150 - Revised Drainage Design win Road L1 (Ch 1170-1430)         Issued PMI No. 150 - Ouotation Preparation and Submission         Issued PMI No. 150 - Duotation Preparation and Submission         Issued PMI No. 150 - Duotation Preparation and Submission         Issued PMI No. 150 - Ouotation Preparation and Submission         Issued PMI No. 150 - Duotation Preparation and Submission         Issued PMI No. 150 - PM Review and Reply         Road L1 - Method Statement Road Paving & Marking Prep & Submit, PM Review , Resubmission , Approval         Road L1 - Method Statement Street Furniture Prep & Submit, PM Review , Resubmission , Approval         Destruction         L1 Stage 1 (Portion 18C, Next to Portion 17B Hamme	274       128       128       128       14       0       14       125       110       21       14       21       14       21       14       21       14       21       14       21       14       21       14       0       21       14       0       21       14       0       21       14       0       21       14       0       21       14       0       21       14       0       21       14       0       21       14       39       123       123       123	25-Jan-22 A 09-May-23 09-May-23 10-Jun-23 10-Jun-23 17-Sap-22 A 17-Sap-22 A 17-Sap-22 A 15-Mar-23 17-Oct-22 A 15-Mar-23 10-May-23 10-May-23 10-May-23 22-Nov-22A 22-Nov-22A 22-Nov-22A 02-Feb-23 A 16-Jan-23 A 01-Mar-23 05-May-23	08-Mar-24           10-Oct-23           10-Oct-23           27-Jun-23           09-Jun-23           27-Jun-23           09-Jun-23           27-Jun-23           04-Jul-23           28-Mar-23           28-Mar-23           28-Mar-23           20-Mar-23*           09-Apr-23           23-Apr-23           04-Jul-23           05-Aug-23           04-Jul-23           05-Aug-23           05-Aug-23           05-Aug-23           05-Aug-23           05-Aug-23           12-Jul-23           25-Jul-23           05-Aug-23           31-Jul-23           05-Aug-23           05-Aug-23	26-Feb-22 31-May-22 15-Jun-22 31-May-22 01-Jun-22 23-Feb-23 01-Jun-22 23-Feb-23 10-May-23 24-May-23 23-Feb-23 09-Mar-23 09-Mar-23 24-Mar-23 25-Mar-23 01-Mar-3 01-Mar-3 01-Mar-3 01-Mar-3 01-Mar-3 01-Mar-3 01-Mar	05-Jan-23 15-Nov-22 15-Nov-22 31-May-22 31-May-22 31-Ju-23 06-Jun-23 06-Jun-23 06-Jun-23 06-Jun-23 08-Mar-23 22-May-23 22-Mar-23 13-Apr-23 22-May-23 22-May-23 22-May-23 31-Jul-23 31-Jul-23 31-Jul-23 31-Jul-23 31-Jul-23	-252 -345 -265 -265 -303 -303 -303 -303 -303 -303 -30 -11 70 -6 -6 -6 -6 -6 -6 -6 -6 -6 -6 -6 -6 -6			
<ul> <li>(D3 - D1 - Cc)</li> <li>(KD3 - Road I</li> <li>(KD3 - Road I</li> <li>(KD3 - 2684</li> <li>(KD3 - 2685</li> <li>(D3 - ROAD</li> <li>(D3 - L1 - Su)</li> <li>(KD3 - 0106</li> <li>(KD3 - 0120C</li> <li>(KD3 - 0120C</li> <li>(KD3 - 0160A</li> <li>(KD3 - 0160A</li> <li>(KD3 - 0160C</li> <li>(KD3 - 1190</li> <li>(KD3 - 1190</li> <li>(KD3 - 1190</li> <li>(KD3 - 1190</li> <li>(KD3 - L1 - Cc)</li> <li>(KD3 - Road I</li> <li>(KD3 - S325</li> <li>(KD3 - S327</li> <li>(KD3 - S331</li> <li>(KD3 - S333)</li> <li>(KD3 - S335)</li> </ul>	Instruction (Area Occupied - Partial)           Portion 7 - Complete Box Culvert A1           D1 Stage 1 (Road Next to Portion 15.2 and 15.2b)           Road D1 Stage 1 (152,152b, 200m) - DCM Complete (152,152b)           Road D1 Stage 1 (152,152b, 200m) - Site Formation           D L1 Construction           ubmissions           Issued PMI No. 066 - Quotation Preparation and Submission           Issued PMI No. 066 - PM Review and Repty           PMI No. 069 - Quotation Preparation and Submission           Issued PMI No. 150 - Revised Drainage Design win RoadL1 (Ch 1170-1430)           Issued PMI No. 150 - Quotation Preparation and Submission           Issued PMI No. 150 - Quotation Preparation and Submission           Issued PMI No. 150 - Revised Drainage Design win RoadL1 (Ch 1170-1430)           Issued PMI No. 150 - Quotation Preparation and Submission           Issued PMI No. 150 - Quotation Preparation and Submission           Issued PMI No. 150 - PM Review and Repty           RoadL1 - Method Statement Road Paring & Marking Prep & Submit, PM Review , Resubmission , Approval           Construction           L1 Stage 1 (Portion 18C, Next to Portion 17B Hammerhead) 260m           Portion 18C RoadL1 (CH1170-1430) - Stage 3 (Building 11)           Portion 18C RoadL1 (CH1170-1430) - Stage 3 (Building 12)           Portion 18C RoadL1 (CH1170-1430) - Stage 3 (Building 9)           Portion 18C RoadL1 (CH117	274       128       128       128       14       0       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       30       201       106       39       123       75       50	25-Jan-22 A 09-May-23 09-Jan-23 10-Jan-23 10-Jan-23 17-Sep-22 A 17-Sep-22 A 17-Sep-22 A 15-Mar-23 17-Oct-22 A 15-Mar-23 10-May-23 10-May-23 10-May-23 22-Nov-22A 22-Nov-22A 22-Nov-22A 02-Feb-23 A 16-Jan-23 05-Jan-23 05-Jan-23	08-Mar-24           10-Oct-23           10-Oct-23           27-Jun-23           09-Jun-23           27-Jun-23           07-Jun-23           07-Jun-23           27-Jun-23           06-Aug-23           14-Mar-23           28-Mar-23           14-Mar-23           28-Mar-23           20-Mar-23*           09-Apr-23           23-Apr-23           04-Jul-23           05-Aug-23           05-Aug-23 <t< td=""><td>26-Feb-22 31-May-22 15-Jun-22 31-May-22 01-Jun-22 23-Feb-23 23-Feb-23 10-May-23 24-May-23 24-May-23 24-Mar-23 04-Mar-23 25-Mar-23 01-Mar-23</td><td>05-Jan-23 15-Nov-22 15-Nov-22 17-Jun-22 31-May-22 17-Jun-22 31-Jul-23 06-Jun-23 06-Jun-23 06-Jun-23 06-Jun-23 06-Jun-23 08-Mar-23 22-Mar-23 13-Apr-23 22-May-23 22-May-23 22-May-23 22-May-23 31-Jul-23</td><td>-252         -345         -265         -303         -303         -303         -303         -303         -303         -303         -303         -303         -303         -303         -303         -303         -303         -34         -34         -6         0         -6         0         4         -34         -34         -51         16         5         -5         0         -5         0         -33         -33         -33         -33         -33         -33         -34</td><td></td><td></td><td></td></t<>	26-Feb-22 31-May-22 15-Jun-22 31-May-22 01-Jun-22 23-Feb-23 23-Feb-23 10-May-23 24-May-23 24-May-23 24-Mar-23 04-Mar-23 25-Mar-23 01-Mar-23	05-Jan-23 15-Nov-22 15-Nov-22 17-Jun-22 31-May-22 17-Jun-22 31-Jul-23 06-Jun-23 06-Jun-23 06-Jun-23 06-Jun-23 06-Jun-23 08-Mar-23 22-Mar-23 13-Apr-23 22-May-23 22-May-23 22-May-23 22-May-23 31-Jul-23	-252         -345         -265         -303         -303         -303         -303         -303         -303         -303         -303         -303         -303         -303         -303         -303         -303         -34         -34         -6         0         -6         0         4         -34         -34         -51         16         5         -5         0         -5         0         -33         -33         -33         -33         -33         -33         -34			
(D3 - D1 - Cc)           KD3 - Road I           KD3 - Road I           KD3-2685           D3 - ROAD           KD3-2685           D3 - ROAD           KD3-2685           D3 - ROAD           KD3-106B           KD3-0106C           KD3-0120C           KD3-0160C           KD3-0160C           KD3-0160C           KD3-1190           KD3-1190           KD3-1190           KD3-5315           KD3-5325           KD3-5327           KD3-5331           KD3-5333           KD3-5333           KD3-5350	Image: Struction (Area Occupied - Partial)           Portion 7 - Complete Box Culvert A1           D1 Stage 1 (Road Next to Portion 15.2 and 15.2b)           Road D1 Stage 1 (152,15.2b, 20,0m) - DCM Complete (152,15.2b)           Road D1 Stage 1 (152,15.2b, 20,0m) - Stle Formation           D L1 Construction           ubmissions           Issued PMI No. 066 - Quotation Preparation and Submission           Issued PMI No. 066 - PM Review and Repty           PMI No. 069 - PMI No. 069 - PM Review and Repty           Issued PMI No. 150 - Revised Drainage Design win Road L1 (Ch 1170-1430)           Issued PMI No. 150 - Revised Drainage Design win Road L1 (Ch 1170-1430)           Issued PMI No. 150 - PM Review and Repty           Road L1 - Method Statement Road Paving & Marking Prep & Submit, PM Review , Resubmission , Approval           Road L1 - Method Statement Street Furniture Prep & Submit, PM Review , Resubmission , Approval           Dottor 18C Road L1 (CH1170-1430) - Stage 1 (Building 11)           Portion 18C Road L1 (CH1170-1430) - Stage 2 (Building 12)           Portion 18C Road L1 (CH1170-1430) - Stage 3 (Building 8)           Portion 18C Road L1 (CH1170-1430) - Stage 5 (Building 12)           Portion 18C Road L1 (CH1170-1430) - Stage 5 (Building 13)           Portion 18C Road L1 (CH1170-1430) - Stage 5 (Building 14)           Portion 18C Road L1 (CH1170-1430) - Stage 5 (Building 15)           Portion 18C Road L1 (CH1170-1	274       128       128       128       14       0       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       30       21       14       39       123       75       50       34	25-Jan-22 A 09-May-23 09-Jun-23 10-Jun-23 10-Jun-23 17-Sep-22 A 17-Sep-22 A 17-Sep-22 A 15-Mar-23 17-Oct-22 A 15-Mar-23 20-Mar-23 10-Apr-23 10-Apr-23 10-May-23 22-Nov-22A 22-Nov-22A 22-Nov-22A 02-Feb-23 A 16-Jan-23 05-May-23 05-Jun-23 24-Jun-23	08-Mar-24           10-Oct-23           10-Oct-23           27-Jun-23           09-Jun-23           27-Jun-23           05-Aug-23           04-Jul-23           28-Mar-23           14-Mar-23           28-Mar-23           20-Mar-23*           09-Apr-23           23-Apr-23           04-Jul-23           05-Aug-23           04-Jul-23           05-Aug-23           04-Jul-23           05-Aug-23           04-Jul-23           05-Aug-23           05-Aug-23 <t< td=""><td>26-Feb-22 31-May-22 15-Jun-22 31-May-22 31-May-22 31-May-22 23-Feb-23 23-Feb-23 24-May-23 23-Feb-23 09-Mar-23 23-Feb-23 09-Mar-23 25-Mar-23 25-Mar-23 01-Mar-23 01-Mar-23 01-Mar-23 01-Mar-23 01-Mar-23 01-Mar-23 01-Mar-23 01-Mar-23 01-Mar-23 01-Mar-23 01-Mar-23 01-Mar-23 01-Mar-23 01-Mar-23 01-Mar-23 01-Jun-23</td><td>05-Jan-23 15-Nov-22 15-Nov-22 17-Jun-22 31-May-22 17-Jun-22 31-Jul-23 06-Jun-23 06-Jun-23 06-Jun-23 06-Jun-23 06-Jun-23 08-Mar-23 22-May-23 22-May-23 22-May-23 22-May-23 31-Jul-23</td><td>-252         -345         -265         -303         -303         -303         -303         -303         -303         -303         -303         -303         -303         -303         -303         -303         -303         -34         -34         -6         0         -6         0         4         -34         -34         -5         16         5         -5         0         -5         0         -33         -33         -33         -3         -3         -3         -3         -3         -3         -3         -3         -3         -3         -3         -3         -3         -3         -3         -3         -3         -3</td><td></td><td></td><td></td></t<>	26-Feb-22 31-May-22 15-Jun-22 31-May-22 31-May-22 31-May-22 23-Feb-23 23-Feb-23 24-May-23 23-Feb-23 09-Mar-23 23-Feb-23 09-Mar-23 25-Mar-23 25-Mar-23 01-Mar-23 01-Mar-23 01-Mar-23 01-Mar-23 01-Mar-23 01-Mar-23 01-Mar-23 01-Mar-23 01-Mar-23 01-Mar-23 01-Mar-23 01-Mar-23 01-Mar-23 01-Mar-23 01-Mar-23 01-Jun-23	05-Jan-23 15-Nov-22 15-Nov-22 17-Jun-22 31-May-22 17-Jun-22 31-Jul-23 06-Jun-23 06-Jun-23 06-Jun-23 06-Jun-23 06-Jun-23 08-Mar-23 22-May-23 22-May-23 22-May-23 22-May-23 31-Jul-23	-252         -345         -265         -303         -303         -303         -303         -303         -303         -303         -303         -303         -303         -303         -303         -303         -303         -34         -34         -6         0         -6         0         4         -34         -34         -5         16         5         -5         0         -5         0         -33         -33         -33         -3         -3         -3         -3         -3         -3         -3         -3         -3         -3         -3         -3         -3         -3         -3         -3         -3         -3			
(D3 - D1 - Cc KD3-1455 (KD3 - Road I KD3-2684 (KD3-2684 (KD3-2685 D3 - ROAD (D3 - L1 - Su (KD3-0106 (KD3-0100 (KD3-0160 (	Instruction (Area Occupied - Partial)           Portion 7 - Complete Bax Cutvert A1           D1 Stage 1 (Road Next to Portion 15.2 and 15.2b)           Road D1 Stage 1 (152,152b, 200,m) - DCM Complete (152,152b)           Road D1 Stage 1 (152,152b, 200,m) - Site Formation           D1 Construction           Ubmissions           Issued PMI No. 086 - Quotation Preparation and Submission           Issued PMI No. 086 - Quotation Preparation and Submission           Issued PMI No. 086 - PM Review and Reply           PMI No. 089 - Quotation Preparation and Submission           Issued PMI No. 089 - PM Review and Reply           Issued PMI No. 150 - Revised Drainage Design win Road L1 (Ch 1170-1430)           Issued PMI No. 150 - Revised Drainage Design win Road L1 (Ch 1170-1430)           Issued PMI No. 150 - PM Review and Reply           Road L1 - Method Statement Road Paving & Marking Prep & Submit, PM Review , Resubmission , Appr oval           Road L1 - Method Statement Street Furniture Prep & Submit, PM Review , Resubmission , Appr oval           Road L1 - Method Statement Street Furniture Prep & Submit, PM Review , Resubmission , Appr oval           Portion 18C Road L1 (CH1170-1430) - Stage 1 (Building 11)           Portion 18C Road L1 (CH1170-1430) - Stage 2 (Building 12)           Portion 18C Road L1 (CH1170-1430) - Stage 3 (Building 18)           Portion 18C Road L1 (CH1170-1430) - Stage 6 (CLPSS)           Portion 18C Road	274       128       128       128       14       0       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       21       14       123       201       106       39       123       75       50       34       35	25-Jan-22 A 09-May-23 09-Jun-23 10-Jun-23 10-Jun-23 17-Sep-22 A 17-Sep-22 A 17-Sep-22 A 15-Mar-23 17-Oct-22 A 15-Mar-23 20-Mar-23 20-Mar-23 10-May-23 10-May-23 22-Nov-22A 22-Nov-22A 02-Feb-23 A 16-Jan-23 A 02-Feb-23 A 16-Jan-23 05-Jun-23 05-Jun-23 24-Jun-23 19-May-23	08-Mar-24         10-Oct-23         10-Oct-23         27-Jun-23         09-Jun-23         27-Jun-23         05-Aug-23         04-Jul-23         28-Mar-23         14-Mar-23         28-Mar-23         20-Mar-23*         09-Apr-23         23-Apr-23         04-Jul-23         05-Aug-23         04-Jul-23         05-Aug-23         04-Jul-23         05-Aug-23         06-Aug-23         07-Aug-23         08-Aug-23         08-Aug-23         08-Aug-23         08-Aug-23         08-Aug-23         08-Aug-23         08-Aug-23	26-Feb-22 31-May-22 15-Jun-22 31-May-22 31-May-22 31-May-22 23-Feb-23 23-Feb-23 10-May-23 24-May-23 23-Feb-23 09-Mar-23 24-Mar-23 25-Mar-23 25-Mar-23 01-Mar-24 01-Mar-24 01-Mar-24 01-Mar-24 01-Mar-24 01-Mar-24 01-Mar-24	05-Jan-23 15-Nov-22 15-Nov-22 17-Jun-22 31-May-22 17-Jun-22 31-Jul-23 06-Jun-23 06-Jun-23 06-Jun-23 06-Jun-23 08-Mar-23 22-Mar-23 13-Apr-23 22-May-23 22-May-23 22-May-23 31-Jul-23	-252         -345         -265         -303         -303         -303         -303         -303         -303         -303         -303         -303         -303         -303         -303         -303         -303         -303         -303         -30         -6         -6         -6         -6         -6         -6         -6         -6         -6         -70         70         70         -6         -6         -6         -6         -6         -70         -8         -70         -8         -70         -34         -5         -6         -5         -6         -5         -6         -5         -6         -5         -6         -7			
CD3 - D1 - Cc           KD3 - Road I           KD3 - Road I           KD3-2685           CD3 - ROAD           CD3 - ROAD           KD3-2685           CD3 - ROAD           CD3 - L1 - SU           KD3-0106B           KD3-0120C           KD3-0160A           KD3-0160C           KD3-0160C           KD3-0160C           KD3-0160C           KD3-0160C           KD3-0160C           KD3-0160C           KD3-1190           KD3-1190           KD3 - L1 - Cc           KD3 - Sa25           KD3 - Sa25           KD3-5325           KD3-5327           KD3-5331           KD3-5333           KD3-5330	Image: Struction (Area Occupied - Partial)           Portion 7 - Complete Box Culvert A1           D1 Stage 1 (Road Next to Portion 15.2 and 15.2b)           Road D1 Stage 1 (152,15.2b, 20,0m) - DCM Complete (152,15.2b)           Road D1 Stage 1 (152,15.2b, 20,0m) - Stle Formation           D L1 Construction           ubmissions           Issued PMI No. 066 - Quotation Preparation and Submission           Issued PMI No. 066 - PM Review and Repty           PMI No. 069 - PMI No. 069 - PM Review and Repty           Issued PMI No. 150 - Revised Drainage Design win Road L1 (Ch 1170-1430)           Issued PMI No. 150 - Revised Drainage Design win Road L1 (Ch 1170-1430)           Issued PMI No. 150 - PM Review and Repty           Road L1 - Method Statement Road Paving & Marking Prep & Submit, PM Review , Resubmission , Approval           Road L1 - Method Statement Street Furniture Prep & Submit, PM Review , Resubmission , Approval           Dottor 18C Road L1 (CH1170-1430) - Stage 1 (Building 11)           Portion 18C Road L1 (CH1170-1430) - Stage 2 (Building 12)           Portion 18C Road L1 (CH1170-1430) - Stage 3 (Building 8)           Portion 18C Road L1 (CH1170-1430) - Stage 5 (Building 12)           Portion 18C Road L1 (CH1170-1430) - Stage 5 (Building 13)           Portion 18C Road L1 (CH1170-1430) - Stage 5 (Building 14)           Portion 18C Road L1 (CH1170-1430) - Stage 5 (Building 15)           Portion 18C Road L1 (CH1170-1	274         128         128         128         14         0         14         21         14         21         14         21         14         21         14         21         14         21         14         21         14         21         14         21         14         21         14         21         14         21         14         21         14         30         21         14         39         123         75         50         34	25-Jan-22 A 09-May-23 09-Jun-23 10-Jun-23 10-Jun-23 17-Sep-22 A 17-Sep-22 A 17-Sep-22 A 15-Mar-23 17-Oct-22 A 15-Mar-23 10-May-23 10-May-23 20-Mar-23 10-May-23 22-Nov-22A 22-Nov-22A 22-Nov-22A 02-Feb-23 A 16-Jan-23 05-May-23 05-Jun-23 24-Jun-23	08-Mar-24           10-Oct-23           10-Oct-23           27-Jun-23           09-Jun-23           27-Jun-23           09-Jun-23           27-Jun-23           04-Jul-23           14-Mar-23           28-Mar-23           20-Mar-23*           09-Apr-23           23-Apr-23           04-Jul-23           05-Aug-23           20-Mar-23*           04-Jul-23           05-Aug-23           <	26-Feb-22 31-May-22 15-Jun-22 31-May-22 01-Jun-22 23-Feb-23 23-Feb-23 10-May-23 24-May-23 24-May-23 24-Mar-23 09-Mar-23 25-Mar-23 25-Mar-23 01-Jun-23 14-Jul-23 28-Dec-21	05-Jan-23 15-Nov-22 15-Nov-22 17-Jun-22 31-May-22 17-Jun-22 31-Jul-23 06-Jun-23 06-Jun-23 06-Jun-23 06-Jun-23 08-Mar-23 22-Mar-23 13-Apr-23 22-May-23 22-May-23 22-May-23 22-May-23 31-Jul-23	-252         -345         -265         -303         -303         -303         -303         -303         -303         -303         -303         -303         -303         -303         -303         -303         -303         -34         -72         -11         70         -0         -6         -6         -6         -6         -6         -6         -70         -6         -6         -6         -6         -6         -6         -70         -70         -6         -6         -70         -70         -8         -70         -8         -70         -73         -5         -5         -5         -5         -5         -73         -33         -34 <td></td> <td></td> <td></td>			

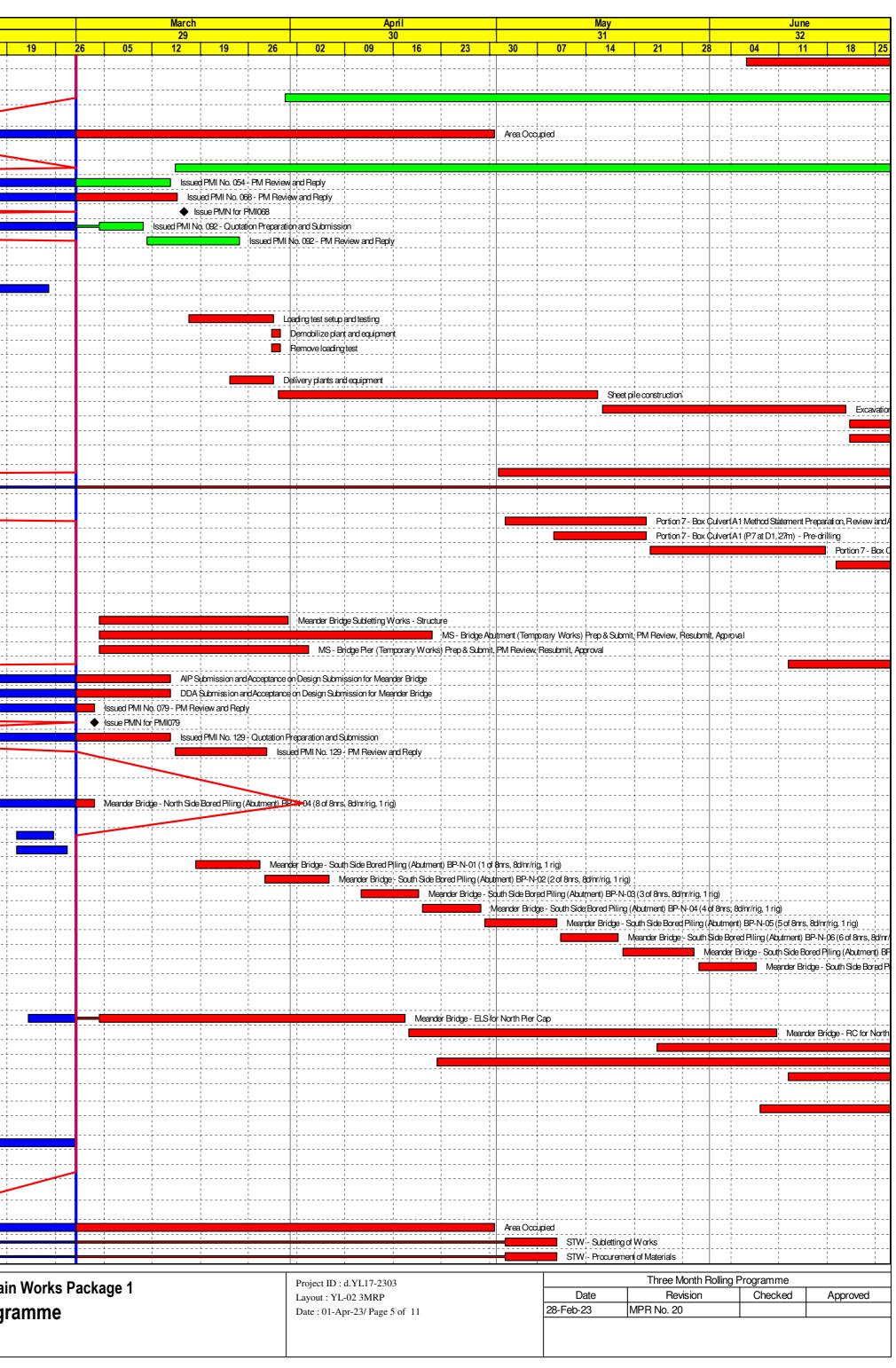
- 中国铁建 CRCC - Kwan Lee - Paul Y. JV
- Critical Remaining Work
   Milestone



		Dur					Float	9 05	28 12	,
KD4-1005	WCR Carriageway - MS PM Review	21 240	06-Jun-23 31-Mar-23	30-Jun-23 20-Jan-24	14-Jan-22 15-May-23	12-Feb-22 04-Mar-24	-406 33			
ey Date KD5 D5-1000	5 - Reedbeds Transplanting (Area Occupied) Reedbeds - Preparation and Procurement Works	240	31-Mar-23	20-Jan-24	15-May-23	04-Mar-24	33			
	6 - Box Culverts A2 and A1 in Portion 7	240	07-Feb-22 A	27-Oct-23	23-Dec-21	11-Nov-26	433			
96-0400	Area Occupied	403	22-Feb-22 A	30-Apr-23	23-Dec-21	21-Feb-22	-433			
D6 - Box Culv	vert A1 (Portion 7, CH 0-75) 75m (CSD Scheme)	138	27-Jul-22 A	29-Jul-23	30-Aug-22	11-Nov-26	468			
D6-5105	Interface Portion 7 - CLP ESS Excavation and ELS Installation (Depth 4m from Existing Level)	110	15-Mar-23	29-Jul-23	17-Oct-23	01-Mar-24	175			
D6-5245	Issued PMI No. 054 - PM Review and Reply	30	08-Aug-22 A	14-Mar-23	09-May-23	22-May-23	54			
(D6-5248 (D6-5248A	Issued PMI No. 068 - PM Review and Reply Issue PMIN for PMI068	0	27-Jul-22 A	15-Mar-23 16-Mar-23	02-Dec-22	16-Dec-22 17-Dec-22	-89	·		
(D6-5251	Issued PMI No. 092 - Quotation Preparation and Submission	21	13-Jan-23 A	10-Mar-23	22-Oct-26	28-Oct-26	1328			
(D6-5252	Issued PMI No. 092 - PM Review and Reply	14	11-Mar-23	24-Mar-23	29-Oct-26	11-Nov-26	1328			
	(CH 0-75) Foundation (CSD)	50	01-Feb-23 A	30-Mar-23	30-Aug-22	04-Jan-23	-69			
KD6-5348	(CH 0-75) Workfront 1 Construction Pile P6-5a&b (4nos @ ave. 3d/nr/rig, 1 rig)	12	01-Feb-23 A 01-Feb-23 A	25-Feb-23 A 25-Feb-23 A	30-Aug-22 30-Aug-22	30-Aug-22 30-Aug-22				
	(CH 0-75) Loading Test	12	17-Mar-23	30-Mar-23	19-Dec-22	04-Jan-23	-69			
KD6-5440	Loading test setup and testing	11	17-Mar-23	29-Mar-23	19-Dec-22	03-Jan-23	-69			
KD6-5560	Demobilize plant and equipment	2	29-Mar-23	30-Mar-23	03-Jan-23	04-Jan-23	-69			
KD6-5570	Remove loading test (CH 0-75) ELS Installation and Structure Construction	2	29-Mar-23 23-Mar-23	30-Mar-23 29-Jul-23	03-Jan-23 28-Dec-22	04-Jan-23 06-May-23	-69 -69			
KD6-5450	Delivery plants and equipment	6	23-Mar-23	29-Mar-23	28-Dec-22	04-Jan-23	-68			
KD6-5460	Sheet pile construction	35	30-Mar-23	15-May-23	04-Jan-23	17-Feb-23	-69			
KD6-5470	Excavation and install structure to FEL at CH 0-15	30	16-May-23	20-Jun-23	18-Feb-23	24-Mar-23	-69		· · · · · · · · · · · · · · · · · · ·	
KD6-5480 KD6-5490	Construction of Box Culvert CH 0-15 Excavation and install structure to FEL at Line from CH 15-37.5	32	21-Jun-23 21-Jun-23	29-Jul-23 27-Jul-23	25-Mar-23 25-Mar-23	06-May-23 04-May-23	-69 -69			
	vert A2 (Including Border Patrol Road & Portion 7)	232	07-Feb-22 A	27-Jui-23 27-Oct-23	23-Feb-22	21-Aug-22	-165			
D6-0500	Portion 7 - Application to Border Police for Boundary Patrol Road TTA	180	01-May-23	27-Oct-23	23-Feb-22	21-Aug-22	-432			
(D6-1005	Portion 7 - Box Culvert A2 Method Statement Submission and Approval	18	07-Feb-22 A	28-Aug-23	17-Jun-22	22-Jun-22	-351			
D6 - Box Culv	vert A1 (Portion 7, Road D1, CH 247-274) 27m (Area Occupied)	52	02-May-23	04-Jul-23	22-Feb-22	01-Aug-22	-271			
(D6-1070	Portion 7 - Box Culvert A1 Method Statement Preparation, Review and Approval	18	02-May-23	22-May-23	22-Feb-22	14-Mar-22	-349			
(D6-1075 (D6-1080	Portion 7 - Box CulvertA1 (P7 at D1, 27m) - Pre-drilling Portion 7 - Box CulvertA1 (P7 at D1, 27m) - Pre-bored H-pile (29 nrs @ ave 3d/nr/rig, 4rigs)	12	09-May-23	22-May-23	01-Mar-22	14-Mar-22 23-May-22	-349 -317			
D6-1085	Portion 7 - Box Culvert A1 (P7 at D1, 2/m) - Pilebueu Hpile (29 his @ ave 30 h/mg, 4 hgs) Portion 7 - Box Culvert A1 (P7 at D1, 2/m) - Piling Load Test	12	23-May-23 19-Jun-23	17-Jun-23 04-Jul-23	26-Apr-22 19-Jul-22	01-Aug-22	-271			
	7 - Meander Bridge and CLP Transformer Delivery	213	15-Jan-22 A	22-Aug-23	25-Aug-21	17-Aug-23	-2			
D7 - Submiss		213	15-Jan-22 A	22-Aug-23	26-Dec-21	17-Aug-23	-2			
D7-1015	Meander Bridge Subletting Works - Structure	24	04-Mar-23	31-Mar-23	31-Dec-21	28-Jan-22	-343			
D7-1175	MS - Bridge Abutment (Temporary Works) Prep & Submit, PM Review, Resubmit, Approval	38	04-Mar-23	21-Apr-23	02-Mar-23	19-Apr-23	-2			
(D7-1180	MS - Bridge Pier (Temporary Works) Prep & Submit, PM Review, Resubmit, Approval	26	04-Mar-23	03-Apr-23	29-Dec-21	28-Jan-22	-345			
(D7-1185 (D7-2025	MS - Bridge Superstructure (Temporary Works) Prep & Submit, PM Review, Resubmit, Approval AIP Submission and Acceptance on Design Submission for Meander Bridge	60 51	12-Jun-23 15-Jan-22 A	22-Aug-23 14-Mar-23	07-Jun-23 15-Aug-22	17-Aug-23 27-Aug-22	-4		····	
(D7-2025 (D7-2035	DDA Submission and Acceptance on Design Submission for Meander Bridge	33	29-Jan-22 A	14-Mar-23	15-Aug-22	27-Aug-22	-160	;		
D7-2075	Issued PMI No. 079 - PM Review and Reply	14	23-Sep-22 A	03-Mar-23	26-Dec-21	28-Dec-21	-430			
(D7-2076	Issue PMN for PMI079	0	01 Dec 004	03-Mar-23	00 Dec 01	28-Dec-21	-345			
(D7-2110 (D7-2115	Issued PMI No. 129 - Quotation Preparation and Submission Issued PMI No. 129 - PM Review and Reply	21	31-Dec-22A 15-Mar-23	14-Mar-23 28-Mar-23	28-Dec-21 11-Jan-22	10-Jan-22 24-Jan-22	-428 -428			
D7 - Substruc		87	12-Jan-23 A	07-Jun-23	16-Dec-21	31-Oct-22	-175			
Meander Bridg		8	12-Jan-23 A	03-Mar-23	16-Dec-21	18-Dec-21	-351			
KD7-2630	Meander Bridge - North Side Bored Piling (Abutment) BP-N-04 (8 of 8nrs, 8d/nr/rig, 1 rig)	8	12-Jan-23 A	03-Mar-23	16-Dec-21	18-Dec-21	-351			+
Meander Bridg	e South Side	87	20-Feb-23 A	07-Jun-23	20-Dec-21	31-Oct-22	-175		1	
KD7-2070	Meander Bridge - Earth Retaining Supports for Existing South Abutment EVA	6	20-Feb-23 A	25-Feb-23 A	20-Dec-21	20-Dec-21				· + - <b>-</b>
KD7-2090 KD7-2640	Meander Bridge - Forming access platform for South Abutment Meander Bridge - South Side Bored Piling (Abutment) BP-N-01 (1 of 8nrs, 8d/nr/rig, 1 rig)	8	20-Feb-23 A 18-Mar-23	27-Feb-23 A 27-Mar-23	15-Aug-22 15-Aug-22	15-Aug-22 23-Aug-22	-175	· · · · · · · · · · · · · · · · · · ·		
KD7-2650	Meander Bridge - South Side Bored Pilling (Abutment) BP-N-02 (2 of 8nrs, 8d/nr/rig, 1 rig)	8	28-Mar-23	06-Apr-23	24-Aug-22	01-Sep-22	-175			
KD7-2660	Meander Bridge - South Side Bored Piling (Abutment) BP-N-03 (3 of 8nrs, 8d/nr/rig, 1 rig)	8	11-Apr-23	19-Apr-23	02-Sep-22	10-Sep-22	-175			
KD7-2670	Meander Bridge - South Side Bored Piling (Abutment) BP-N-04 (4 of 8nrs, 8d/nr/rig, 1 rig)	8	20-Apr-23	28-Apr-23	13-Sep-22	21-Sep-22	-175			· <del> </del> ·
KD7-2680 KD7-2690	Meander Bridge - South Side Bored Piling (Abutment) BP-N-05 (5 of 8nrs, 8d/nr/rig, 1 rig) Meander Bridge - South Side Bored Piling (Abutment) BP-N-06 (6 of 8nrs, 8d/nr/rig, 1 rig)	8	29-Apr-23 10-May-23	09-May-23 18-May-23	22-Sep-22 03-Oct-22	30-Sep-22 12-Oct-22	-175 -175			
KD7-2700	Meander Bridge - South Side Bored Pilling (Abutment) BP-N-07 (7 of 8nrs, 8d/nr/rig, 1 rig)	8	19-May-23	29-May-23	13-Oct-22	21-Oct-22	-175	 		
KD7-2710	Meander Bridge - South Side Bored Piling (Abutment) BP-N-08 (8 of 8nrs, 8d/nr/rig, 1 rig)	8	30-May-23	07-Jun-23	22-Oct-22	31-Oct-22	-175			· · · · · · · · · · · · · · · · · · ·
D7 - Piers an	d Abutment	150	22-Feb-23 A	22-Aug-23	17-Dec-21	17-Aug-23	-4			
<b>MB North Side</b>		150	22-Feb-23 A	22-Aug-23	17-Dec-21	17-Aug-23	-4			
KD7-2250	Meander Bridge - ELS for North Pier Cap	45	22-Feb-23 A	17-Apr-23	17-Dec-21	28-Jan-22	-353			
KD7-2260 KD7-2265	Meander Bridge - RC for North Piers' Caps and Piers Meander Bridge - Backfill and removal of ELS for Piers	45	18-Apr-23 24-May-23	10-Jun-23 30-Jun-23	16-Jul-22 20-Aug-22	06-Sep-22 26-Sep-22	-222 -222			
KD7-2300	Meander Bridge - ELS for North Abutment	60	22-Apr-23	05-Jul-23	20-Apr-23	03-Jul-23	-2			
KD7-2310	Meander Bridge - RC for North Abutment	60	12-Jun-23	22-Aug-23	07-Jun-23	17-Aug-23	-4			
IB South Side		47	08-Jun-23	03-Aug-23	02-Feb-23	28-Mar-23	-102			,
KD7-2135	Meander Bridge - ELS for South Abutment	47	08-Jun-23 01-Feb-23 A	03-Aug-23 11-May-23	02-Feb-23 25-Aug-21	28-Mar-23 01-Mar-22	-102 -351			+ +
D7 - DCM	DCM5 Cluster Installation (48 nrs, 4nrs/d/rig, 1 rig) (WCR, Section 6)	14	01-Feb-23 A	17-Mar-23	-		-459			
D7-2450 (D7-2455	DCM3 Cluster Installation (48 ms, 4ms/orng, 1 mg) (WCH, Section 6) DCM7 Cluster Installation (10 ms, 4ms/o/rig, 1 rig) (WCR, Section 6)	21	01-Fe0-23 A 01-Mar-23	24-Mar-23	25-Aug-21 12-Jan-22	25-Aug-21 12-Jan-22	-409	;		
D7-2780	DCM7 Cluster Installation (109 nrs, 5nrs/d/rig, 1 rig) (WCR, Section 6)	57	01-Mar-23	11-May-23	01-Mar-22	01-Mar-22	-351			
ey Date KD8	3 - Sewage Treatment Works (STW) Buildings	249	05-Nov-21 A	14-Sep-23	12-Dec-21	16-Nov-23	25		_	
D8 - Submiss		249	05-Nov-21 A	14-Sep-23	12-Dec-21	05-Oct-22	-133			
KD8-0900	Area Occupied	403	22-Feb-22 A	30-Apr-23	12-Dec-21	10-Feb-22	-444			
(D8-1005	STW - Subletting of Works	47	30-Dec-21 A	09-May-23	25-Jun-22	04-Jul-22	-250		· · · · · · · · · · · · · · · · · · ·	
(D8-1010	STW - Procurement of Materials	47	30-Dec-21 A	09-May-23	25-Jun-22	04-Jul-22	-250			
APP	Actual Level of Effort			-	Contract V	(1 /2020/04	. I nk	Ma Chai		lain \
	Paul Y Actual Level of Effort			(	Contract Y	(L/2020/01			u Loop M ng Pro	

♦♦ Milestone

CRCC - Kwan Lee - Paul Y. JV



ID	Activity Name	Orig Dur	Early Start	Early Finish	Late Start	Late Finish	Total Float		Febr 2	8				Mar 29
KD8 - Design		548	05-Nov-21 A	14-Sep-23	11-Feb-22	05-Oct-22	-280	9	05 1	12	19	26	05	12
D8-1015	STW - Design IW PTB (Substructure TW) Prep & Submit, PM Review, Resubmit, Approval	58	05-Nov-21A	05-Jun-23	11-Jun-22	15-Jul-22	-262	·		 1	· · · · · · · · · · · · · · · · · · ·	·		
08-1020	STW - Design Bio-Reactor (Substructure TW) Prep & Submit, PM Review, Resubmit, Approval	58	05-Nov-21 A	05-Jun-23	11-Feb-22	16-Mar-22	-358					+-		
3-1025	STW - Design Membrane Facilities (Substructure TW) Prep & Submit, PM Review, Resubmit, Approval	58	05-Nov-21 A	05-Jun-23	19-Feb-22	24-Mar-22	-351					i .		
3-1030 2-1035	STW - Design Sludge Treatment Blg (Substructure TW) Prep & Submit, PM Review, Resubmit, Approval STW - Design Chem. Storage & FH Pump Room Prep & Submit (45d), PM Review (21d), Resubmit (21d), Approval (21d)	58 108	09-May-23 09-May-23	18-Jul-23 14-Sep-23	14-Mar-22 01-Apr-22	26-May-22 13-Aug-22	-338 -322				·			
08-1035 08-1040	STW - Design DOU No. 3 (Substructure TW) Prep & Submit (45d), PM Review (21d), Resubmit (21d), Approval (21d) STW - Design DOU No. 3 (Substructure TW) Prep & Submit (45d), PM Review (21d), Resubmit (21d), Approval (21d)	108	09-1vlay-23	14-Sep-23	27-May-22	05-Oct-22	-322							
8 - Shop Di		58	06-Jun-23	14-Aug-23	17-Mar-22	22-Sep-22	-262							
8-3330	STW - Shop Drawings for IW PTB (Substructure TW) Prep & Submit, PM Review, Resubmit, Approval	58	06-Jun-23	14-Aug-23	16-Jul-22	22-Sep-22	-262							
8-3335	STW - Shop Drawings for Bio-Reactor (Substructure TW) Prep & Submit, PM Review, Resubmit, Approval	58	06-Jun-23	14-Aug-23	17-Mar-22	30-May-22	-358							
D8-3340	STW - Shop Drawings for Membrane Facilities (Substructure TW) Prep & Submit, PM Review, Resubmit, Approval	58	06-Jun-23	14-Aug-23	26-Mar-22	09-Jun-22	-350				·			
<b>D8 - Method</b>	Statement STW - MS IWPTB (Substructure TW) Prep & Submit, PM Review, Resubmit, Approval	81 58	09-May-23	14-Aug-23	14-Mar-22	22-Sep-22	-262 -239				·			
D8-1335	STW - MS Bio-Reactor (Substructure TW) Prep & Submit, PM Review, Resubmit, Approval	58	09-May-23 09-May-23	18-Jul-23 18-Jul-23	16-Jul-22 14-Mar-22	22-Sep-22 26-May-22	-239							
D8-1340	STW - MS Membrane Facilities (Substructure TW) Prep & Submit, PM Review, Resubmit, Approval	58	06-Jun-23	14-Aug-23	25-Mar-22	08-Jun-22	-351							
98 - Constru	uction	519	06-Dec-21A	11-Sep-23	25-Jun-22	16-Nov-23	54							
D8 - Inlet Wo	orks and Primary Treatment Building (IWPTB) (Area Occupied)	519	06-Dec-21A	11-Sep-23	25-Jun-22	22-Oct-22	-262							
D8-2014	STW - IW PTB Foundation Pre-drilling (approx. 109 nrs)	55	06-Dec-21A	20-May-23	25-Jun-22	15-Jul-22	-250					+-		
D8-2015	STW - IW PTB Foundation Socketed H-piles for IW PTB (109 nrs @ 3d/pile/rig, 4 rigs)	82	06-Jun-23	11-Sep-23	16-Jul-22	22-Oct-22	-262							
	ane Facility Building (MFB) (Area Occupied)	42	03-Jan-22 A	20-May-23	03-Oct-22	22-Oct-22	-168							
8-2004	STW - MFB Foundation Pre-drilling (approx. 81 nrs)	42	03-Jan-22 A	20-May-23	03-Oct-22	22-Oct-22	-168					· <mark> +</mark> -		
	actor (BRB) (Area Occupied)	50	22-Dec-21A	06-May-23	03-Oct-22	08-Oct-22	-168							
8-1195	STW - BR Foundation Pre-drilling (approx. 60 nrs)	50 60	22-Dec-21 A 11-Jan-22 A	06-May-23 05-Jun-23	03-Oct-22 20-Jun-23	08-Oct-22 16-Nov-23	-168 136				·	· <b>·</b> · · · · · · · · ·		
<b>D8 - Sludge</b> D8-2352	Treatment Building (STB) (Area Occupied) STW - STB Foundation Pre-drilling (approx. 85 nrs)	60		05-Jun-23	20-Jun-23 20-Jun-23	25-Jul-23	41				·	· · · · · · · · ·		
08-2352 08-2375	STW - STB Foundation Pre-onlining (approx. as hrs) STW - Deodourization Unit No.3 Foundation Pre-orilling (approx. 4 nrs)	60 27	11-Jan-22 A 10-Feb-22 A	20-May-23	20-Jun-23 28-Oct-23	25-JUI-23 16-Nov-23	148			 -				
	Wetland Compensation Establishment Works at Portion 1	365	26-Jul-22 A	25-Jul-23	04-Jun-22	28-Oct-22	-270				·	· • + -		
2000	Portion 1 - Establishment Works and Ecological Monitoring (Area 7)	365	26-Jul-22 A	25-Jul-23	04-Jun-22	28-Oct-22	-270					. <mark>.</mark>		
	• Wetland Compensation Establishment Works at Portion 2A/2B	365	26-Jul-22 A	25-Jul-23	04-Jun-22	28-Oct-22	-270		J ! !				L   	
2000	Portion 2A/2B - Establishment Works and Ecological Monitoring (Area 2, Area 9)	365	26-Jul-22 A	25-Jul-23	04-Jun-22	28-Oct-22	-270				·	· <b>· · · · · · ·</b> · ·		
		365	26-Jul-22 A	25-Jul-23	04-Jun-22	28-Oct-22	-270							
-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	04-Jun-22	28-Oct-22	-270							
		216	15-Feb-23 A	06-Nov-23	18-Sep-23	30-May-24	164							
	Noodland Compensation Works at Portion 4				· ·									
	eparation Works	216	15-Feb-23 A	06-Nov-23	18-Sep-23	30-May-24	164							
050	Portion 4 - Existing Vegetation Survey	30	15-Feb-23 A	21-Mar-23	18-Sep-23	10-Oct-23	164							
060 070	Portion 4 - Submission of Existing Survey Report Portion 4 - Preparation of Woodland Compensation Plan (with Method Statement & Material Submission)	0 66	22-Mar-23	29-Apr-23 13-Jun-23	11-Oct-23	29-Dec-23 29-Dec-23	200 164				·			
070	Portion 4 - Submission of Woodland Compensation Plan (with Method Statement & Material Submission)	0	22-10101-23	13-Jun-23	11-001-23	29-Dec-23	164				·			
075	Portion 4 - Review and Acceptance of Woodland Compensation Plan (with Method Statement & Material Submission)	120	14-Jun-23	06-Nov-23	30-Dec-23	30-May-24	164							
1082	Portion 4 - Preparation of Woodland Compensation Material Submissions	98	22-Mar-23	22-Jul-23	20-Oct-23	20-Feb-24	172							
tion 6 - V	Western Connection Road (WCR)	161	18-Aug-22 A	17-Oct-23	09-Aug-21	27-Jun-24	99							
<b>NCR Subr</b>	mission	78	17-Sep-22 A	11-Apr-23	21-Sep-21	08-Feb-23	-24							
1024	Issued PMI No. 104 - PM Review and Reply	21	17-Sep-22 A	06-Mar-23	18-Nov-21	23-Nov-21	-468					- <mark></mark> -	Issued P	/II No. 10
9200B	Issued PMI No. 135 - Quotation Preparation and Submission	21	07-Jan-23 A	03-Mar-23	21-Sep-21	23-Sep-21	-526					ls:	sued PMI No.	135 - Qi
-9200C -9300	Issued PMI No. 135 - PM Review and Reply	14	04-Mar-23	17-Mar-23	24-Sep-21	07-Oct-21	-526				·			
9300 9310	Issued PMI No. 143 - Design, Supply and Installation of Road Lighting (Quotation) Issued PMI No. 143 - Quotation Preparation and Submission	0 14	01-Mar-23	01-Mar-23* 16-Mar-23	31-Dec-22	30-Dec-22 17-Jan-23	-60 -46				·		PMI No. 143	Design,
9717	Issued PMI No. 143 - PM Review and Reply	21	17-Mar-23	06-Apr-23	18-Jan-23	07-Feb-23	-58							
9727	Issued PMI No. 143 - Issue PMN	1	11-Apr-23	11-Apr-23	08-Feb-23	08-Feb-23	-49				·			
WCR Suble	etting and Procurement	124	07-Mar-23	07-Aug-23	24-Nov-21	08-Jun-23	-49							
-9200	Portion 6 - Watermain Subletting	24	07-Mar-23	03-Apr-23	24-Nov-21	21-Dec-21	-375		· · · · · · · · · · · · · · · · · · ·		1			
9202	Portion 6 - Watermain Material Procurement and Delivery	73	04-Apr-23	06-Jul-23	22-Dec-21	25-Mar-22	-375							
9210	Portion 6 - Road Lighting Subletting	24	12-Apr-23	10-May-23	09-Feb-23	08-Mar-23	-49							
9707 WCR Worl	Portion 6 - Road Lighting Material Procurement and Delivery	73 161	11-May-23 18-Aug-22 A	07-Aug-23 17-Oct-23	09-Mar-23	08-Jun-23 29-Aug-23	-49 -19				·			
			-											
	iminary and Demolition Works	90	15-Mar-23	06-Jul-23	02-Dec-21	25-Mar-22	-375				·			
6-1092 6 WCR: Pon	Portion 6 - Procurement for DN700 Fresh Watermains	90 49	15-Mar-23 18-Aug-22 A	06-Jul-23 18-Mar-23	02-Dec-21	25-Mar-22 03-Sep-21	-375							
ond Filling W		49	18-Aug-22 A	18-Mar-23	17-Aug-21	03-Sep-21	-261				·			
36-5106	S1A: Area 2 - Pond 10 Filling (12,858m3) - Suspended from 28 Sep due to owner object on, Resumed 17 Oct 2022	49	18-Aug-22 A	18-Mar-23	17-Aug-21	03-Sep-21	-261					·		
6 WCR: UU I		72	01-Mar-23	30-May-23	01-Aug-22	26-Oct-22	-76						L   	
6-9037	UU Diversion - CLP 11kV (with Poles)	72	01-Mar-23	30-May-23	01-Aug-22	26-Oct-22	-76					· + -		
6-9047	UU Diversion - HKT	72	01-Mar-23	30-May-23	01-Aug-22	26-Oct-22	-76				·			
6-9057	UU Diversion - VTL	72	01-Mar-23	30-May-23	01-Aug-22	26-Oct-22	-76							
6-9067	UU Diversion - Watermains	72	01-Mar-23	30-May-23	01-Aug-22	26-Oct-22	-76							
6-9537	UU Diversion - Road Lighting	72 98	01-Mar-23 02-Feb-23 A	30-May-23 10-Oct-23	01-Aug-22 09-Aug-21	26-Oct-22 20-Sep-22	-76 -148							
		148	02-Feb-23 A	02-Aug-23	09-Aug-21	08-Sep-22	-140				· · · · · · · · · · · · · · · · · · ·	· <b>·</b> · · · · · · · · · · · · ·		
		4	02-Fe0-23 A 29-Mar-23	01-Apr-23	20-Oct-21	23-Oct-21	-203				·			
Rig 4 (at Area			29-Mar-23	01-Apr-23	20-Oct-21	23-Oct-21	-424				·	·		
Rig 4 (at Area	Area 1 - Area 1 Post-CPT for DCM	4			20-Dec-21	08-Sep-22	-217				· +	·		
<b>lig 4 (at Area</b> Area 1 - DCM S6-5181		4 76	04-Mar-23	07-Jun-23	20-060-21					1	i			
Rig 4 (at Area Area 1 - DCM S6-5181	Area 1 - Area 1 Post-CPT for DCM			07-Jun-23 24-Mar-23	20-Dec-21	12-Jan-22	-351							
<b>Rig 4 (at Area</b> <b>Area 1 - DCM</b> S6-5181 <b>Area 1 - DCM</b> S6-5199 S6-5201	Area 1 - Area 1 Post-CPT for DCM         17 (at TAR1, MB Abutment)         Area 1 - DCM7 Cluster Installation (20nrs, 4nrs/d/rig, 1 rig, R1)         Area 1 - Backfill the Temporary Working Platform for DCM Rig at C2 Site Area	76 18 5	04-Mar-23 04-Mar-23 17-Mar-23	24-Mar-23 22-Mar-23	20-Dec-21 05-Jan-22	12-Jan-22 10-Jan-22	-351 -351	·				· · · · · · · · · · · · · · · · · · ·		
Area 1 - DCM S6-5199 S6-5201 S6-9518	Area 1 - Area 1 Post-CPT for DCM <b>N 7 (at TAR1, MB Abutment)</b> Area 1 - DCM7 Cluster Installation (20nrs, 4nrs/d/rig, 1 rig, R1)         Area 1 - Backfill the Temporary Working Platform for DCM Rig at C2 Site Area         Area 1 - DCM7 Cluster Installation (37nrs, 4nrs/d/rig, 1rig, R1)	76 18 5 10	04-Mar-23 04-Mar-23 17-Mar-23 23-Mar-23	24-Mar-23 22-Mar-23 03-Apr-23	20-Dec-21 05-Jan-22 11-Jan-22	12-Jan-22 10-Jan-22 21-Jan-22	-351 -351 -351				· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		
Area         Area           Area         1 - DCM           S6-5181         Area           Area         1 - DCM           S6-5199         S6-5201	Area 1 - Area 1 Post-CPT for DCM         17 (at TAR1, MB Abutment)         Area 1 - DCM7 Cluster Installation (20nrs, 4nrs/d/rig, 1 rig, R1)         Area 1 - Backfill the Temporary Working Platform for DCM Rig at C2 Site Area	76 18 5	04-Mar-23 04-Mar-23 17-Mar-23	24-Mar-23 22-Mar-23	20-Dec-21 05-Jan-22	12-Jan-22 10-Jan-22	-351 -351				· · · · · · · · · · · · · · · · · · ·			



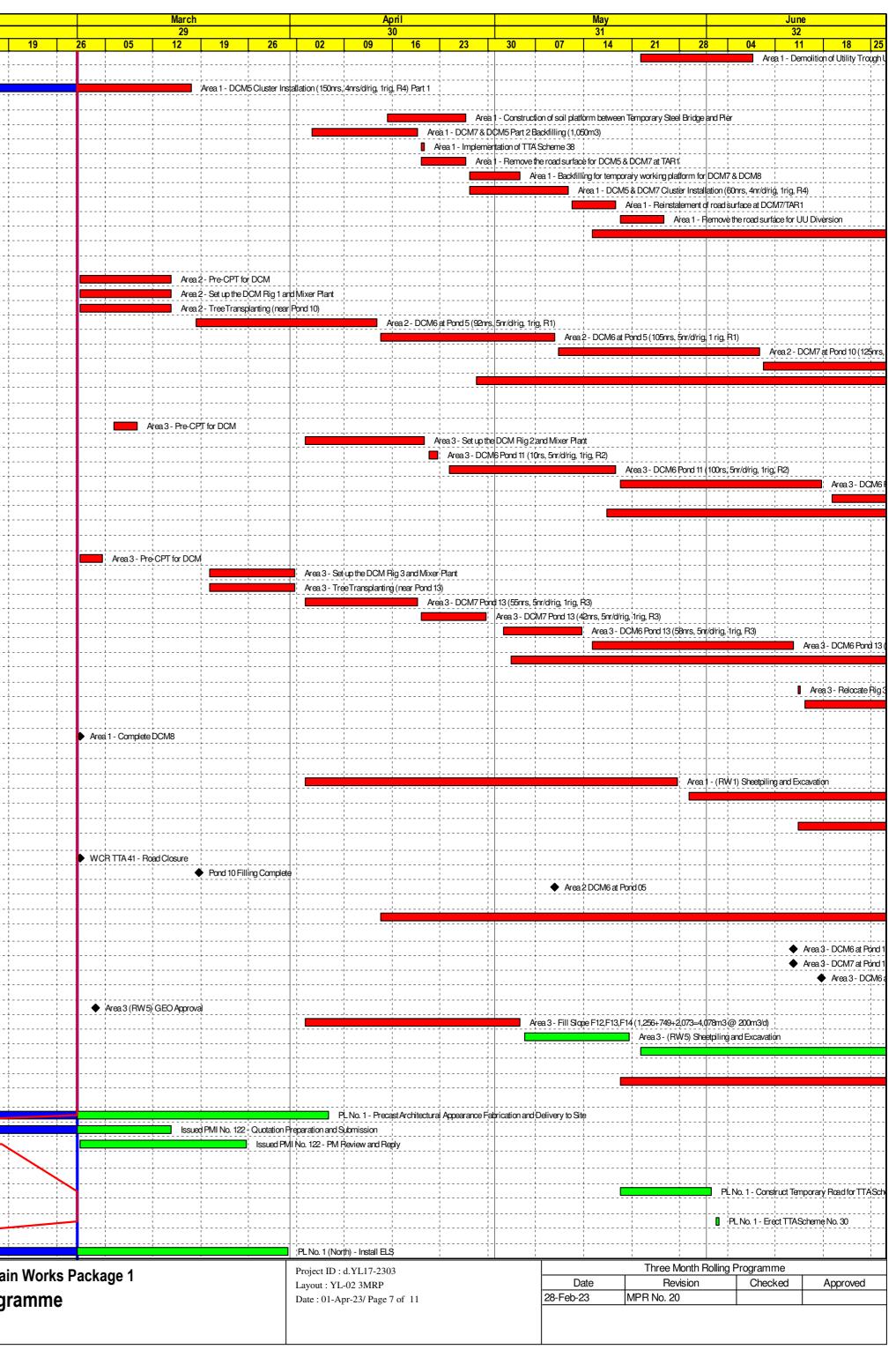
Remaining Work Critical Remaining Work

♦♦ Milestone

Three Month Rolling Progra

Finish	Total		February		March			pril			M			June	
	Float	9	28 05 12	19	29 26 05 12 19	26	02 09	30   16	23	30	3 07	1 14 21	28	32 04 11	18 25
ct-22	-280													* 	
ul-22  ar-22	-262 -358			<u>+</u>			·	 	ا - بـ		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		STW - Design IWF	TB (Substructure TW
ar-22	-351														nbrane Facilities (Sub
ay-22	-338 -322					   									
ug-22 )ct-22	-322 -280											<u>+</u>			!
ep-22	-262														
ep-22 ay-22	-262 -358						·								
un-22	-350														,,
ep-22	-262														
ep-22 ay-22	-239 -338				· · · · · · · · · · · · · · · · · · ·										
un-22	-351														
ov-23	54														
ul-22	-262 -250							 		+		STW - N	WPTB Foundation	Pre-drilling (approx. 109 n	rs)
ct-22	-262														
ct-22	-168									<u></u>					
oct-22	-168 -168											STW - N	/IFB Foundation Pre	≻drilling (approx. 81 nrs)	
oct-22	-168				·····						STW - BR Found	lation Pre-drilling (ap	prox. 60 nrs)		
ov-23	136									<u></u> +		       			
ul-23 ov-23	41 148										t		Deodourization Unit	STW - STB Founda No.3 Foundation Pre-drilli	tioh Pre-drilling (appr nd (approx, 4 nrs)
ct-22	-270														
ct-22	-270		· · · · · · · · · · · · · · · · · · ·		k	- !	·								!
ct-22	-270							· · · · · · · · · · · · · · · · · · ·		     		       			
oct-22	-270 -270														
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ay-24	164					-				+		+			
ay-24	164											 1 1			
ct-23	164			<u>+</u>	Port	ion 4 - Existir	ng Vegetation Survey							   	
ec-23 ec-23	200 164								<b>.</b>	Portion 4 - Subr	nission of Éxisti	ng Survey Report		 	tion 4 - Preparation of
ec-23	164				· · · · · · · · · · · · · · · · · · ·		·								tion 4 - Submission of
ay-24 eb-24	164 172											       		· · · · · · · · · · · · · · · · · · ·	
"n-24	99									<del> </del>   					<mark> </mark>
eb-23	-24														
ov-21	-468				Issued PMI No. 104 - PM Review a	nd Reply	·			+ +					
ep-21 ict-21	-526 -526				Issued PMI No. 135 - Quotation Preparatio		ssion Review and Reply								
ec-22	-60				Issued PMI No. 143 - Design, Supply and Instal	lation of Road	d Lighting (Quotation)								
an-23 eb-23	-46 -58				Issued PMI No	. 143 - Quota	tion Preparation and Submission	143 - PM Revie	wand Benly						
eb-23	-49					-		d PMI No. 143 -							
JN-23	-49														
ec-21 lar-22	-375 -375						Portion 6 - Watermai	n'Subletting				         		 	     
ar-23	-49			 i							Portion 6	- Road Lighting Subl	etting		
un-23 ug-23	-49 -19														
ar-22	-375														
ar-22	-375							·			· ·				
ep-21	-261														
ep-21 ep-21	-261 -261				S10. Arm	2- Rond 10 5	Filling (12,858m3) - Suspended f	rom 28.Senduct	to owner chied	n. Resumed 17	Oct 2022	1 1 1 1 1			
ct-22	-76														
oct-22	-76 76													version - CLP, 11kV (with F	Poles)
oct-22 oct-22	-76 -76										t			version - HKT; version - VTL;	
ct-22	-76					- 1								version - Watermains	
ect-22 ep-22	-76 -148				· · · · · · · · · · · · · · · · · · ·			-ı						version - Road Lighting	
ер-22	-263														
ct-21	-424													· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
ep-22	-424 -217						Area 1 - Area 1 Post-CPT	tor DCM							
an-22	-351						CM7 Cluster Installation (20nrs,				· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·		
an-22 an-22	-351 -351				Ar	ea 1 - Backfil	II the Temporary Working Platfo			+					
ug-22	-301			     					·⊪ວ, ₩⊪ວ/U/IIQ,					d for Temporary Traffic Di	version
ug-22	-217									+	Ar	ea 1 - Divert trafic to	temporary slip road	1	
00/04	1.04	M-	Chaulaan Main Y	Naulia D	lookogo 1		Project ID : d.YL17-230	)3				Three	e Month Rolling	Programme	
			Chau Loop Main V		аскаде 1		Layout : YL-02 3MRP			F	Date	F	Revision	Checked	Approved
ree	Nont	h R	olling Progra	mme			Date : 01-Apr-23/ Page	6 of 11		2	28-Feb-23	MPR No.	20		
							1								

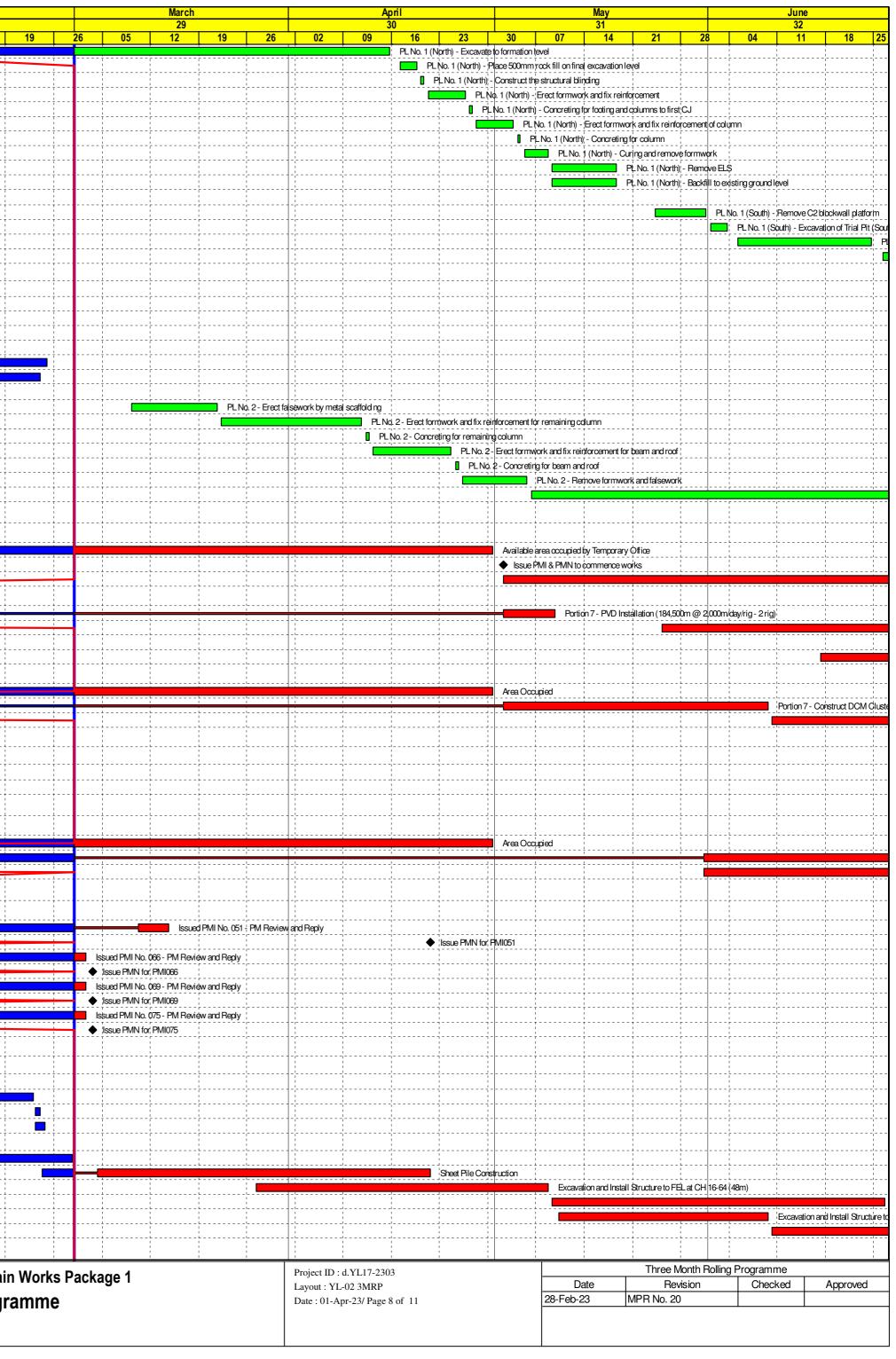
D	Activity Name	Orig Dur	Early Start	Early Finish	Late Start	Late Finish	Total Float	9	05	February 28 12	19
S6-9737	Area 1 - Demolition of Utility Trough Urderneath TAR1 (Southern Part)	14	22-May-23	07-Jun-23	24-Aug-22	08-Sep-22	-217			<u> </u>	
Area 1 - DCM5		38	02-Feb-23 A	17-Mar-23	09-Aug-21	25-Aug-21	-459				; ;
S6-5180 Area 1 - DCM5,	Area 1 - DCM5 Cluster Installation (150nrs, 4nrs/d/rig, 1rig, R4) Part 1	38	02-Feb-23 A 04-Apr-23	17-Mar-23 02-Aug-23	09-Aug-21	25-Aug-21 15-Mar-22	-459 -407			۹ ۱	T
-	Area 1 - Construction of soil platform between Temporary Steel Bridge and Pier	10	15-Apr-23	26-Apr-23	13-Nov-21	24-Nov-21	-414				¦
	Area 1 - DCM7 & DCM5 Part 2 Backfilling (1,050m3)	10	04-Apr-23	19-Apr-23	22-Jan-22	08-Feb-22	-351				÷
S6-7505	Area 1 - Implementation of TTA Scheme 38	1	20-Apr-23	20-Apr-23	09-Feb-22	09-Feb-22	-351				+
	Area 1 - Remove the road surface for DCM5 & DCM7 at TAR1	6	20-Apr-23	26-Apr-23	09-Feb-22	15-Feb-22	-351				; ; +
	Area 1 - Backfilling for temporary working platform for DCM7 & DCM8	6	27-Apr-23	04-May-23	02-Mar-22	08-Mar-22	-339	4			+
	Area 1 - DCM5 & DCM7 Cluster Installation (60nrs, 4m/d/rig, 1rig, R4)	12	27-Apr-23	11-May-23	16-Feb-22	01-Mar-22	-351			, , , , ,	+
S6-7510 S6-7516	Area 1 - Reinstatement of road surface at DCM7/TAR1 Area 1 - Remove the road surface for UU Diversion	6	12-May-23 19-May-23	18-May-23 25-May-23	02-Mar-22 09-Mar-22	08-Mar-22 15-Mar-22	-351 -351				i +
	Area 1 - Reinove the road surface to 100 Diversion Area 1 - Existing UU Diversion and Backfilling for CLP cables, gas mains and watermains	66	15-May-23	02-Aug-23	11-Dec-21	07-Mar-22	-414				
Rig 1 (at Area 2)		171	01-Mar-23	25-Sep-23	12-Aug-21	20-Sep-22	-204				+
• • •	t Pond 5,6,7 & 10	171	01-Mar-23	25-Sep-23	12-Aug-21	20-Sep-22	-204	· ·			
S6-7562	Area 2 - Pre-CPT for DCM	12	01-Mar-23	14-Mar-23	12-Aug-21	25-Aug-21	-265				+ !
S6-7563	Area 2 - Set up the DCM Rig 1 and Mixer Plant	12	01-Mar-23	14-Mar-23	12-Aug-21	25-Aug-21	-265				+
S6-7564	Area 2 - Tree Transplanting (near Pond 10)	12	01-Mar-23	14-Mar-23	12-Aug-21	25-Aug-21	-265				
	Area 2 - DCM6 at Pond 5 (92nrs, 5nr/d/rig, 1rig, R1)	19	18-Mar-23	13-Apr-23	26-Aug-21	16-Sep-21	-268				
	Area 2 - DCM6 at Pond 5 (105nrs, 5nr/d/rig, 1 rig, R1)	21	14-Apr-23	09-May-23	17-Sep-21	13-Oct-21	-268			' ' !	
	Area 2 - DCM7 at Pond 10 (125nrs, 5nr/d/rig, 1 rig, R1)	25	10-May-23	08-Jun-23	15-Oct-21	12-Mar-22	-268				
	Area 2 - DCM7 at Pond 10 (125nrs, 5nr/d/rig, 1 rig, R1)	25	09-Jun-23	10-Jul-23	14-Mar-22	12-Apr-22	-268				
S6-9017	Area 2 - Post-DCM Coring	125	28-Apr-23	25-Sep-23	22-Apr-22	20-Sep-22	-204	4			
Rig 2 (at Area 3)		178	06-Mar-23	10-Oct-23	20-Oct-21	20-Sep-22	-215	·		¦	<u>+</u> + +
Area 3 - DCM a		178	06-Mar-23	10-Oct-23	20-Oct-21	20-Sep-22	-215				+
S6-7610	Area 3 - Pre-CPT for DCM Area 3 - Still in the DCM Big 2 and Mixer Plant	4	06-Mar-23	09-Mar-23	20-Oct-21	23-Oct-21	-213				; ;
S6-7612	Area 3 - Set up the DCM Rig 2 and Mixer Plant	12	03-Apr-23	20-Apr-23	25-Oct-21	07-Mar-22	-233			 	; 
	Area 3 - DCM6 Pond 11 (10rs, 5nr/d/rig, 1rig, R2) Area 3 - DCM6 Pond 11 (100rs, 5nr/d/rig, 1rig, R2)	2	21-Apr-23 24-Apr-23	22-Apr-23 18-May-23	08-Mar-22 10-Mar-22	09-Mar-22 02-Apr-22	-233 -233				÷
	Area 3 - DCM6 Pond 11 (120rs, 5nr/d/rig, 1rig, R2)	21	19-May-23	17-Jun-23	04-Apr-22	02-Api-22 07-May-22	-233				+
	Area 3 - DCM6 Pond 09 (120rs, 5m/d/rig, 1rig, R2)	25	19-Jun-23	19-Jul-23	31-May-22	29-Jun-22	-215				+
	Area 3 - Post-DCM Coring	121	17-May-23	10-Oct-23	27-Apr-22	20-Sep-22	-215				+
Rig 3 (at Area 3)		124	01-Mar-23	01-Aug-23	09-Oct-21	20-Sep-22	-157				+
	i & 7 at Pond 13	124	01-Mar-23	01-Aug-23	09-Oct-21	20-Sep-22	-157				
S6-7531	Area 3 - Pre-CPT for DCM	4	01-Mar-23	04-Mar-23	15-Oct-21	19-Oct-21	-213				
S6-7532	Area 3 - Set up the DCM Rig 3 and Mixer Plant	12	20-Mar-23	01-Apr-23	09-Oct-21	23-Oct-21	-233			J   	
S6-7533	Area 3 - Tree Transplanting (near Pond 13)	12	20-Mar-23	01-Apr-23	20-Oct-21	02-Mar-22	-225	<i>د</i> ا		J	+   
S6-7534	Area 3 - DCM7 Pond 13 (55nrs, 5nr/d/rig, 1rig, R3)	11	03-Apr-23	19-Apr-23	03-Mar-22	15-Mar-22	-225			J ! !	1
S6-7536	Area 3 - DCM7 Pond 13 (42nrs, 5nr/d/rig, 1rig, R3)	9	20-Apr-23	29-Apr-23	16-Mar-22	25-Mar-22	-225				
S6-7537	Area 3 - DCM6 Pond 13 (58nrs, 5nr/d/rig, 1rig, R3)	11	02-May-23	13-May-23	26-Mar-22	08-Apr-22	-225				
S6-7540	Area 3 - DCM6 Pond 13 (120nrs, 5nr/d/rig, 1rig, R3)	25	15-May-23	13-Jun-23	09-Apr-22	13-May-22	-225				
S6-8957	Area 3 - Post-DCM Coring	75	03-May-23	01-Aug-23	23-Jun-22	20-Sep-22	-157				   
Area 3 - DCM6	at Pond 12	23	14-Jun-23	12-Jul-23	14-May-22	10-Jun-22	-225			: : !	¦ ! !
S6-9554	Area 3 - Relocate Rig 3 from Area 3 to Area 2	1	14-Jun-23	14-Jun-23	14-May-22	14-May-22	-225				¦
S6-9557	Area 3 - DCM6 Pond 12 (110nrs, 5nr/d/rig, 1rig, R3)	22	15-Jun-23	12-Jul-23	16-May-22	10-Jun-22	-225				¦
rea 1 (Road D1	I to CH 1900)	90	01-Mar-23	16-Oct-23	03-Jun-22	22-May-23	-57				
	Area 1 - Complete DCM8	0		01-Mar-23		05-Oct-22	-22				
Area 1 - Retainir		90	03-Apr-23	25-Jul-23	03-Oct-22	22-May-23	-52				¦ +
Area 1 - Retain		90	03-Apr-23	25-Jul-23	03-Oct-22	22-May-23	-52				¦ 
	Area 1 - (RW1) Sheetpiling and Excavation	42	03-Apr-23	27-May-23	03-Oct-22	21-Mar-23	-52				
	Area 1 - (RW 1) Retaining Wall Construction	48	29-May-23	25-Jul-23	22-Mar-23	22-May-23	-52			¦ 	¦ 
	oad Construction	125	14-Jun-23	16-Oct-23	03-Jun-22	05-Oct-22	-376			¦ 	¦ ¦
S6-9072	Area 1 - DCM Curing	125	14-Jun-23 01-Mar-23	16-Oct-23 03-Oct-23	03-Jun-22 19-Jan-22	05-Oct-22 09-Mar-23	-376 -81				
rea 2 (CH 1900	· · ·	85		6-00-23		09-11/12-23				; 	
S6-6195	WCR TTA 41 - Road Closure	0	01-Mar-23*	10 Mar 00	24-Jun-22	04 hm 00	-106				
	Pond 10 Filling Complete	0		18-Mar-23		24-Jun-22	-122				
	Area 2 DCM6 at Pond 05	0	14-Apr-23	09-May-23 03-Oct-23	19-Jan-22	09-Mar-23	-47 -450				
	oad Construction Area 2 - DCM6 Curing	173	14-Apr-23 14-Apr-23	03-Oct-23	19-Jan-22 19-Jan-22	10-Jul-22	-450 -450				
		89	14-Apr-23 03-Mar-23	17-Oct-23	19-Jan-22 31-May-22	10-Jul-22 29-Aug-23	-450				
rea 3 (CH 1650	·				01 Widy-22	-	-				÷
66-8876 66-8877	Area 3 - DCM6 at Pond 13 Area 3 - DCM7 at Pond 13	0		13-Jun-23 13-Jun-23		29-Oct-22 29-Oct-22	-85 -85			¦	÷
	Area 3 - DCM/ at Pond 13 Area 3 - DCM6 at Pond 11	0		13-Jun-23		29-Oct-22 29-Oct-22	-80				
Area 3 - Retainir		110	03-Mar-23	17-Jul-23	28-Oct-22	29-Aug-23	35				
S6-7388	Area 3 (RW5) GEO Acoroval	0		03-Mar-23*		03-Mar-23	0				
S6-7393	Area 3 - Fill Slope F12,F13,F14 (1,256+749+2,073=4,078m3 @ 200m3/d)	23	03-Apr-23	04-May-23	28-Oct-22	23-Mar-23	-31				
	Area 3 - (RW5) Sheetpiling and Excavation	14	05-May-23	20-May-23	16-Jun-23	04-Jul-23	35			J   !	
	Area 3 - (RW5) Retaining Wall Construction	48	22-May-23	19-Jul-23	05-Jul-23	29-Aug-23	35			·	
Area 3 - UU & Re	oad Construction	152	19-May-23	17-Oct-23	31-May-22	29-Oct-22	-353	[			
	Area 3 - DCM6&7 Curing	152	19-May-23	17-Oct-23	31-May-22	29-Oct-22	-353	[		   !	
WCR Pai La	u	108	30-Sep-22 A	07-Jul-23	04-Jan-24	27-Jun-24	139				1
	PL No. 1 - Precast Architectural Appearance Fabrication and Delivery to Site	189	30-Sep-22 A	06-Apr-23	14-Feb-24	21-Mar-24	350				+
	Issued PMI No. 122 - Quotation Preparation and Submission	21	01-Dec-22A	14-Mar-23	26-Jan-24	08-Feb-24	331				
-5645C	Issued PMI No. 122 - PM Review and Reply	14	01-Mar-23A	25-Mar-23	26-Jan-24	19-Feb-24	331				
ai Lau No.1 Co	onstruction (Location 15, LMC Road)	167	05-Dec-22A	04-Jul-23	04-Jan-24	09-Apr-24	226	[			
PL No.1 - Prepar		11	19-May-23	01-Jun-23	22-Mar-24	08-Apr-24	251			 ! !	<b>.</b>
	PLNo. 1 - Construct Temporary Road for TTAScheme No. 7	11	19-May-23	01-Jun-23	22-Mar-24	08-Apr-24	251				
PL No.1 - Found		167	05-Dec-22A	04-Jul-23	04-Jan-24	09-Apr-24	226				
S6-3625	PLNo. 1 - Erect TTAScheme No. 30	1	02-Jun-23	02-Jun-23	09-Apr-24	09-Apr-24	251			 ! !	÷
PL1 Foundation	n - North Part	130	05-Dec-22A	18-May-23	04-Jan-24	21-Mar-24	251			1	
	PL No. 1 (North) - Install ELS	45	05-Dec-22A	31-Mar-23	04-Jan-24	03-Feb-24	251				
中国铁	Actual Level of Effort     Actual Work     Remaining Work     Critical Remaining Work			(	Contract	YL/2020/01 Three I				•	



ID	Activity Name	Orig Dur	Early Start	Early Finish	Late Start	Late Finish	Total Float	.9 05
S6-9397	PL No. 1 (North) - Excavate to formation level	60	05-Dec-22A	15-Apr-23	04-Jan-24	19-Feb-24	251	9 00
S6-9407	PL No. 1 (North) - Place 500mm rock fill on final excavation level	3	17-Apr-23	19-Apr-23	20-Feb-24	22-Feb-24	251	
S6-9417	PL No. 1 (North) - Construct the structural blinding	1	20-Apr-23	20-Apr-23	23-Feb-24	23-Feb-24	251	
S6-9427	PLNo. 1 (North) - Erect formwork and fix reinforcement	5	21-Apr-23	26-Apr-23	24-Feb-24	29-Feb-24	251	
S6-9437	PLNo. 1 (North) - Concreting for footing and columns to first CJ	1	27-Apr-23	27-Apr-23	01-Mar-24	01-Mar-24	251	
S6-9439	PLNo. 1 (North) - Erect formwork and fix reinforcement of column	4	28-Apr-23	03-May-23	02-Mar-24	06-Mar-24	251	
S6-9441 S6-9447	PL No. 1 (North) - Concreting for column PL No. 1 (North) - Curing and remove formwork	3	04-May-23 05-May-23	04-May-23 08-May-23	07-Mar-24 08-Mar-24	07-Mar-24 11-Mar-24	251 251	
S6-9457	PLNo. 1 (North) - Remove ELS	9	09-May-23	18-May-23	12-Mar-24	21-Mar-24	251	
S6-9467	PLNo. 1 (North) - Backfill to existing ground level	9	09-May-23	18-May-23	12-Mar-24	21-Mar-24	251	
	tion - South Part	33	24-May-23	04-Jul-23	18-Jan-24	29-Feb-24	196	
S6-9216	PL No. 1 (South) - Remove C2 blockwall platform	6	24-May-23*	31-May-23	18-Jan-24	24-Jan-24	196	
S6-9217	PL No. 1 (South) - Excavation of Trial Pit (South Part)	3	01-Jun-23	03-Jun-23	25-Jan-24	27-Jan-24	196	
S6-9227	PLNo. 1 (South) - UU Diversion (if necessary)	17	05-Jun-23	24-Jun-23	29-Jan-24	21-Feb-24	196	
S6-9237	PL.No. 1 (South) - Install ELS	7	26-Jun-23	04-Jul-23	22-Feb-24	29-Feb-24	196	[
Pai Lau No. 2	Construction (Location 11, HWT Road)	125	03-Feb-23 A	07-Jul-23	21-Feb-24	27-Jun-24	288	
PL No.2 - Fou	Indation	17	03-Feb-23 A	25-Feb-23 A	21-Feb-24	21-Feb-24		
S6-5907	PL No. 2 - Erect formwork and fix reinforcement for column	8	03-Feb-23 A	11-Feb-23 A	21-Feb-24	21-Feb-24		
S6-5908	PL No. 2 - Remove formwork, post concrete inspection	5	13-Feb-23 A	17-Feb-23 A	21-Feb-24	21-Feb-24		
S6-5912	PL No. 2 - Backfill to 500mm below 1st layer strut and waling	2	13-Feb-23 A	14-Feb-23 A	21-Feb-24	21-Feb-24		
S6-5916	PLNo. 2 - Remove 1st layer strut and wailing	2	15-Feb-23 A	16-Feb-23 A	21-Feb-24	21-Feb-24		
S6-5926	PLNo. 2 - Backfill to existing ground level	5	17-Feb-23 A	25-Feb-23 A	21-Feb-24	21-Feb-24		
S6-5936	PLNo. 2 - Remove ELS	5	17-Feb-23 A	24-Feb-23 A	21-Feb-24	21-Feb-24		
PL No.2 - Sup		96	09-Mar-23	07-Jul-23	29-Feb-24	27-Jun-24	288	
S6-2100	PL No. 2 - Erect falsework by metal scaffold ng	11	09-Mar-23	21-Mar-23	29-Feb-24	12-Mar-24	288	
S6-5946	PL No. 2 - Erect formwork and fix reinforcement for remaining column	14	22-Mar-23	11-Apr-23	13-Mar-24	28-Mar-24	288	
S6-5956	PL No. 2 - Concreting for remaining column PL No. 2 - Erect formwork and fiv reinforcement for beam and reef	1	12-Apr-23	12-Apr-23	02-Apr-24	02-Apr-24	288	
S6-5966 S6-5976	PL No. 2 - Erect formwork and fix reinforcement for beam and roof PL No. 2 - Concreting for beam and roof	10	13-Apr-23 25-Apr-23	24-Apr-23 25-Apr-23	03-Apr-24 16-Apr-24	15-Apr-24 16-Apr-24	288 288	
S6-5986	PLNo. 2 - Concreting for beam and root PLNo. 2 - Remove formwork and falsework	8	25-Apr-23 26-Apr-23	25-Apr-23 05-May-23	16-Apr-24 17-Apr-24	25-Apr-24	288	<sup> </sup> <sup>1</sup>
S6-5996	PLNo. 2 - Construct the architectural appearance	51	06-May-23	07-Jul-23	26-Apr-24	25-Apr-24 27-Jun-24	200	
	Ground Treatment Works and Site Formation at Portion 7 (Area Oc	297	03-Jan-22 A	12-Mar-24	26-Dec-21	09-May-23	-120	
		105	22-Feb-22 A	10 14 00	Of Max CO		100	
7 Civil Struc	ctures	185	22-F60-22 A	13-Jul-23	31-May-22	12-Oct-22	-106	
7-0001	Available area occupied by Temporary Office	433	22-Feb-22 A	30-Apr-23	31-May-22	30-Jul-22	-274	
7-3810	Issue PMI & PMN to commence works	0		02-May-23		30-Jul-22	-220	
7-3820	Preparation & Submissions	60	02-May-23	13-Jul-23	01-Aug-22	12-Oct-22	-220	
Ground Im	nprovement - PVD/Surcharge (Area Occupied)	297	03-Jan-22 A	12-Mar-24	06-Jun-22	09-May-23	-120	
7-1090	Portion 7 - PVD Installation (184,500m @ 2,000m/day/rig - 2 rig)	45	03-Jan-22 A	09-May-23	06-Jun-22	13-Jun-22	-267	
7-1100	Portion 7 - General Fill to Surcharge 2m High (23,780m3 @ 600m3/d)	28	25-May-23	28-Jun-23	19-Jul-22	19-Aug-22	-251	
7-1110	Portion 7 - Time Risk Allowance for Earthworks	6	29-Jun-23	06-Jul-23	20-Aug-22	26-Aug-22	-251	
7-1140	Portion 7 - Surcharge Period (9 months) (23,900m3)	270	17-Jun-23	12-Mar-24	13-Aug-22	09-May-23	-308	
	nprovement - DCM (Area Occupied)	213	26-Jan-22 A	02-Sep-23	26-Dec-21	05-Jul-22	-159	
7-1165	AreaOccupied	431	24-Feb-22 A	30-Apr-23	26-Dec-21	24-Feb-22	-430	
7-1190	Portion 7 - Construct DCM Clusters Stage 1 (15.2, 15.2b, 200m) 28,790 of 194,330 @ 180m3/d/auger - 4 auger	52	26-Jan-22 A	09-Jun-23	25-Feb-22	04-Apr-22	-346	
7-1191	Portion 7 - Construct DCM Clusters Stage 2 (18D, 15.5, 15.4, 350m) 50, 382 of 194, 330 @ 180m3/d/auger - 4 auger	71 0	10-Jun-23 30-Jun-23	02-Sep-23 30-Jun-23	06-Apr-22 23-Dec-22	05-Jul-22 23-Dec-22	-346 -189	
	ctures (Area Occupied)	0						
<b>7 - Public Tr</b>	ransport Interchange (PTI) (Area Occupied)	0	30-Jun-23	30-Jun-23	23-Dec-22	23-Dec-22	-189	
S7 - PTI Prelii	minary Submissions	0	30-Jun-23	30-Jun-23	23-Dec-22	23-Dec-22	-189	
PRE-700	Confirmation of Specialist Steelworks Subcontractor	0	30-Jun-23*		23-Dec-22		-189	
ction 8 - 0	Ground Treatment Works and Site Formation at Portion 8 (Area Oc	734	24-Feb-22 A	27-Feb-24	10-Dec-21	08-Dec-22	-446	
3 STW - Site	Formation	734	24-Feb-22 A	27-Feb-24	10-Dec-21	08-Dec-22	-446	
8-1105	Area Occupied	431	24-Feb-22 A	30-Apr-23	10-Dec-21	08-Feb-22	-446	
8-1110	Portion 8 - Stage 3 - General Fill to Surcharge 2m High (26,615m3 @ 360m3/d)	68	24-Feb-22 A	22-Jul-23	11-Mar-22	02-May-22	-446	
8-1140	Portion 8 - Stage 3 - Surcharge Period (9 months) (33,040m3)	273	31-May-23	22-Jul-23 27-Feb-24	11-Mar-22	02-1viay-22 08-Dec-22	-440	
	Box Culvert Construction at Portion 20	147	22-Jun-22 A	22-Jul-23	18-Apr-22	11-Nov-26	470	
9 - Submiss		111	22-Jun-22 A	21-Apr-23	18-Apr-22	11-Nov-26	506	
-5373	Issued PMI No. 051 - PM Review and Reply	14	22-Jun-22 A	14-Mar-23	15-Oct-22	19-Oct-22	-146	
9-5374	Issue PMN for PMI051	0		21-Apr-23		11-Nov-26	1300	
-5377	Issued PMI No. 066 - PM Review and Reply	28	09-Aug-22 A	02-Mar-23	18-Apr-22	19-Apr-22	-317	
-5377A	Issue PMI for PMI066	0	00 A	03-Mar-23	40.4	20-Apr-22	-258	
-5380	Issued PMI No. 069 - PM Review and Reply	14	02-Aug-22 A	02-Mar-23	19-Apr-22	20-Apr-22	-316	
-5381	Issue PMI No. 075- PM Beview and Benly	0	12 Can 02 A	03-Mar-23	10. Arr 20	20-Apr-22	-258	·
-5410 -5412	Issued PMI No. 075 - PM Review and Reply Issue PMIN for PMI075	14 0	12-Sep-22 A	02-Mar-23 03-Mar-23	19-Apr-22	20-Apr-22 20-Apr-22	-316 -258	
		128	15-Feb-23 A	22-Jul-23	21-Apr-22	20-Apr-22 04-Nov-22	-258	
	ert C - (CSD Scheme)						2.00	
	ert C - Foundation Works (CSD)	9	15-Feb-23 A	24-Feb-23 A	15-Jul-22	15-Jul-22		
Box C - Loadi		9	15-Feb-23 A	24-Feb-23 A	15-Jul-22	15-Jul-22		
S9-5550	Loading Test for Compression Pile Setup and Testing (To be confirmed)	7	15-Feb-23 A	23-Feb-23 A	15-Jul-22	15-Jul-22	<u> </u>	
S9-5560	Demobilization Plant and Equipment	2	23-Feb-23 A	24-Feb-23 A	15-Jul-22	15-Jul-22		<sup> </sup> <sup> </sup>
S9-5570	Remove Loading Test Equipment	2	23-Feb-23 A	24-Feb-23 A	15-Jul-22	15-Jul-22		
	ert C - ELS Installation & Structure Construction	128	15-Feb-23 A	22-Jul-23	21-Apr-22	04-Nov-22	-208	
S9-5580	Delivery Plants and Equipments (2 sets)	12	15-Feb-23 A	28-Feb-23 A	21-Apr-22	21-Apr-22		
	Sheet Pile Construction	45	24-Feb-23 A	21-Apr-23	22-Jun-22	05-Aug-22	-208	
	Excavation and Install Structure to FEL at CH 16-64 (48m)	32	27-Mar-23	08-May-23	15-Jul-22	20-Aug-22	-208	
39-5600		40	09-May-23	26-Jun-23	17-Sep-22 23-Aug-22	04-Nov-22 22-Sep-22	-186	
S9-5600 S9-5610	Construction of Box Culvert CH 16-64	~	10 14- 00					
S9-5590 S9-5600 S9-5610 S9-5620 S9-5620	Excavation and Install Structure to FEL at Line From CH 0-16 (16m)	26 35	10-May-23	09-Jun-23			-208	
39-5600 39-5610 39-5620 39-5630	Excavation and Install Structure to FEL at Line From CH 0-16 (16m) Construction of Box Culvert CH 0-16	35	10-Jun-23	22-Jul-23	23-Sep-22	04-Nov-22	-208	
39-5600 39-5610 39-5620 39-5630	Excavation and Install Structure to FEL at Line From CH 0-16 (16m)		-					
39-5600 39-5610 39-5620 39-5630	Excavation and Install Structure to FEL at Line From CH 0-16 (16m) Construction of Box Culvert CH 0-16 - Box Culvert A1 and Road L1 at Portion 18A	35	10-Jun-23	22-Jul-23 27-Jul-23	23-Sep-22 08-Mar-22	04-Nov-22 23-May-22	-208 -349	Ma Chau L
39-5600 39-5610 39-5620 39-5630	Excavation and Install Structure to FEL at Line From CH 0-16 (16m) Construction of Box Culvert CH 0-16  - Box Culvert A1 and Road L1 at Portion 18A	35	10-Jun-23	22-Jul-23 27-Jul-23	23-Sep-22 08-Mar-22	04-Nov-22 23-May-22 YL/2020/01	-208 -349 - Lok	Ma Chau Lo

CRCC - Kwan Lee - Paul Y. JV

♦♦ Milestone



ID	Activity Name	Dur	Early Start	Early Finish			Float	9 05
2A-1010	Portion 18A - MS Box CulvertA1 Preparation & Submit (6d), PM Review (14d), Resubmit (4d), Approval (14d)	18	16-May-23	06-Jun-23	08-Mar-22	28-Mar-22	-349	
ection 12A -	Construction	54	23-May-23	27-Jul-23	15-Mar-22	23-May-22	-349	
Section 12A - I	Box Culvert A1 (Portion 18A, CH 191-247) 56m (Area Occupied)	54	23-May-23	27-Jul-23	15-Mar-22	23-May-22	-349	
S12A-1040	Portion 18A - Box CulvertA1 (P15.1 at L1, 56m) - Pre-drilling	12	23-May-23	06-Jun-23	15-Mar-22	28-Mar-22	-349	
S12A-1050	Portion 18A - Box Culvert A1 (P15.1 at L1, 56m) - Pre-bored H-pile (56 nrs @ ave 3d/nr/rig, 4 rigs)	42	07-Jun-23 21-Jun-23	27-Jul-23 25-Jul-23	29-Mar-22	23-May-22 18-May-22	-349 -351	
	- Box Culvert A3 at Portion 18B (Over Underpass of HSITP)	28			11-Apr-22			
ection 12B -	Construction	28	21-Jun-23	25-Jul-23	11-Apr-22	18-May-22	-351	
	Box Culvert A3 (Portion 18B, CH 158-191) 33m (Area Occupied)	28	21-Jun-23	25-Jul-23	11-Apr-22	18-May-22	-351	
S12B-1060	Portion 18B - MS Box Culvert A3 Preparation & Submit (14d), PM Review (28d), Resubmit (14d), Approval (28d)	28	21-Jun-23	25-Jul-23	11-Apr-22	18-May-22	-351	
ection 12C	- Road L1 and Box Culvert A1 at Portion 18C	138	20-Jul-22 A	22-Jul-23	22-Aug-22	11-Nov-26	470	
ection 12C -	Construction	138	20-Jul-22 A	22-Jul-23	22-Aug-22	11-Nov-26	470	
Section 12C - I	Road L1 - Portion18C (CH 1170 to 1430) 260m	138	20-Jul-22 A	22-Jul-23	22-Aug-22	11-Nov-26	470	
	- Submissions	129	20-Jul-22 A	29-Jun-23	21-Feb-23	11-Nov-26	480	
Road L1 - PM S12C-1013	IS Issued PMI No. 052 - PM Review and Reply	129 24	20-Jul-22 A 20-Jul-22 A	29-Jun-23 14-Mar-23	21-Feb-23 21-Feb-23	11-Nov-26 06-Mar-23	480 -8	
S12C-1013	Issue PMN for PMI052	0	20-001-22 A	15-Mar-23	21-1 60-20	11-Nov-26	1337	
S12C-1020	Issued PMI No. 086 - Quotation Preparation and Submission	21	17-Sep-22 A	14-Mar-23	22-May-23	23-May-23	70	
S12C-1022	Issued PMI No. 086 - PM Review and Reply	14	15-Mar-23	28-Mar-23	24-May-23	06-Jun-23	70	
S12C-1023 S12C-1100A	Issue PMN for PMI086 Issued PMI No. 150 - Revised Drainage Design w/in Road L1 (Ch 1170-1430)	0		09-May-23 20-Mar-23*		11-Nov-26 18-Mar-23	1040 0	
S12C-1100A	Issued PMI No. 150 - Revised Drahage Design with Road E1 (Ch 1170-1450) Issued PMI No. 150 - Quotation Preparation and Submission	21	20-Mar-23	09-Apr-23	24-Mar-23	13-Apr-23	4	
S12C-1100C	Issued PMI No. 150 - PM Review and Reply	14	10-Apr-23	23-Apr-23	14-Apr-23	27-Apr-23	4	
S12C-6440	Issue PMI for Road L1 roadworks - Flexible Pavement (Bitument) Layer	0		02-Mar-23*		01-Mar-23	0	[
S12C-6450	Road L1 Flexible Pavement - Subletting	24	02-Mar-23	29-Mar-23	02-Mar-23	29-Mar-23	0	
S12C-6460	Road L1 Flexible Pavement - Material Procurement and Delivery sign and Method Statement	72 36	30-Mar-23	29-Jun-23 05-Mar-23	30-Mar-23 01-Mar-23	29-Jun-23 31-Mar-23	0 26	1
S12C-5690	Method Statement PM Review and Acceptance (Precast Concrete Pipe and Fittings)	21	21-Sep-22 A	03-Mar-23	29-Mar-23	31-Mar-23	28	
S12C-5710	Temporary Works Design PM Review and Acceptance (Road L1 Trench Excavation 2m,3m depth)	21	03-Oct-22 A	05-Mar-23	01-Mar-23	05-Mar-23	0	
S12C-5720	Temporary Works Design Submission (Road L1 Trench Excavation 4m,5m depth)	15	19-Sep-22 A	02-Mar-23	01-Mar-23	02-Mar-23	0	
S12C-5730	Temporary Works Design PM Review and Acceptance (Road L1 Trench Excavation 4m,5m depth)	21	04-Oct-22 A	05-Mar-23	01-Mar-23	05-Mar-23	0	
	- Stage 1 (Building 11)	131 55	01-Feb-23 A 01-Feb-23 A	12-Jul-23 06-Apr-23	01-Mar-23 09-Mar-23	31-Jul-23 18-Apr-23	16 7	
S12C R0ad L S12C-5641	1 - Stage 1A (Building 11) - Drainage & Sewage, Watermain & Flushing Stage 1A 18C Road L1 (EA Zone) - One-way gyratory system	1	04-Feb-23 A	04-Feb-23 A	01-Apr-23	01-Apr-23	1	
S12C-5676	Stage 1A 18C Road L1 (Road L1) - Diversion of Existing DN80 (watermain)	39	01-Feb-23 A	18-Mar-23	09-Mar-23	27-Mar-23	7	
S12C-6660	Stage 1A 18C Road L1 (Road L1) - Sewage	31	01-Mar-23	06-Apr-23	09-Mar-23	18-Apr-23	7	
	1 - Stage 1B (Building 11) - Drainage & Sewage, Watermain & Flushing	110	09-Feb-23 A	24-Jun-23	01-Mar-23	31-Jul-23	30	
S12C-6550 S12C-6560	Stage 1B 18C Road L1 (Building 11) - Drainage and Sewage Stage 1B 18C Road L1 (Building 11) - Irrigation works	33	09-Feb-23 A 07-Jun-23	31-Mar-23 24-Jun-23	01-Mar-23 14-Jul-23	31-Mar-23 31-Jul-23	0 30	
	1 - Stage 1 (Building 11) - UU Installation and Enabling Works (by Others)	37	01-Apr-23	19-May-23	01-Apr-23	06-Jun-23	14	
S12C-5642	Stage 1A 18C Road L1 (Building 11) - UU enabling works (132kV cross road ducts)	11	01-Apr-23	18-Apr-23	01-Apr-23	18-Apr-23	0	
S12C-5650	Stage 1A 18C Road L1 (Building 11) - UU enabling works (132kV)	6	19-Apr-23	25-Apr-23	19-Apr-23	25-Apr-23	0	
S12C-5660	Stage 1A 18C Road L1 (Building 11) - UU enabling works (11kV)	6	26-Apr-23	03-May-23	26-Apr-23	03-May-23	0	
S12C-5670	Stage 1A 18C Road L1 (Building 11) - UU enabling works (telecom) 1 - Stage 1 (Building 11) - Roadworks and Lighting	14 57	04-May-23 04-May-23	19-May-23 12-Jul-23	20-May-23 04-May-23	06-Jun-23 31-Jul-23	14 16	
S12C-5756	Stage 1 18C Road L1 (Building 11) - Road works (Carriageway)	28	04-May-23	06-Jun-23	04-May-23	06-Jun-23	0	
S12C-5757	Stage 1 18C Road L1 (Building 11) - Road works (entrances)	14	07-Jun-23	23-Jun-23	07-Jun-23	23-Jun-23	0	
S12C-5759	Stage 1 18C Road L1 (Building 11) - Road works (Lighting)	15	24-Jun-23	12-Jul-23	14-Jul-23	31-Jul-23	16	
S12C-5762	Stage 1 18C Road L1 (Building 11) - Road works (Footpath)	15	24-Jun-23	12-Jul-23	14-Jul-23	31-Jul-23	16 5	
	- Stage 2 (Building 12) 1 - Stage 2 (Building 12) - Drainage & Sewage, Watermain & Flushing	126 74	02-Feb-23 A 02-Feb-23 A	07-Jul-23 04-May-23	01-Mar-23 01-Mar-23	13-Jul-23 29-Apr-23	-3	
S12C-5748	Stage 2 18C Road L1 (Building 12) - Install ELS Cofferdam	14	02-Feb-23 A	15-Apr-23	01-Mar-23	15-Apr-23	0	
S12C-5750	Stage 2 18C Road L1 (Building 12) - Drainage	22	04-Apr-23	04-May-23	31-Mar-23	29-Apr-23	-3	1
	1 - Stage 2 (Building 12) - UU Installation and Enabling Works (by Others)	37	01-Apr-23	19-May-23	12-May-23	26-Jun-23	30	
S12C-6665	Stage 2 18C Road L1 (Building 12) - UU enabling works (132kV cross road ducts)	11	01-Apr-23	18-Apr-23	12-May-23	24-May-23	30	
S12C-6670 S12C-6680	Stage 2 18C Road L1 (Building 12) - UU enabling works (132kV) Stage 2 18C Road L1 (Building 12) - UU enabling works (11kV)	6	19-Apr-23 26-Apr-23	25-Apr-23 03-May-23	25-May-23 02-Jun-23	01-Jun-23 08-Jun-23	30 30	
S12C-6690	Stage 2 18C Road L1 (Building 12) - UU enabling works (telecom)	14	04-May-23	19-May-23	09-Jun-23	26-Jun-23	30	 
	1 - Satge 2 (Building 12) - Roadworks and Lighting	14	20-Jun-23	07-Jul-23	27-Jun-23	13-Jul-23	5	
S12C-5758A	Stage 2 18C Road L1 (Building 12) - Road works (Carriageway)	14	20-Jun-23	07-Jul-23	27-Jun-23	13-Jul-23	5	
	- Stage 3 (Building 8)	126	14-Feb-23 A	19-Jul-23	23-Mar-23	13-Jul-23	-5	
	1 - Stage 3A (Building 8) - Drainage & Sewage, Watermain & Flushing	48	29-Mar-23	30-May-23	23-Mar-23	23-May-23	-5	
S12C-5790 S12C-5795	Stage 3A 18C Road L1 (B dg 8) - Drainage and Sewage Stage 3A 18C Road L1 (B dg 8) - Watermain and Flushing	27	29-Mar-23 05-May-23	04-May-23 30-May-23	23-Mar-23 28-Apr-23	27-Apr-23 23-May-23	-5 -5	
	1 - Stage 3B (Building 8) - Drainage & Sewage, Watermain & Flushing	35	01-Apr-23	17-May-23	20-May-23	06-Jun-23	16	
S12C-6600	Stage 3B 18C Road L1 (Bldg 8) - Drainage and Sewage	12	04-May-23	17-May-23	23-May-23	06-Jun-23	16	
S12C-6610	Stage 3B 18C Road L1 (Bldg 8) - Watermain and Flushing	14	01-Apr-23	21-Apr-23	20-May-23	06-Jun-23	37	
	1 - Stage 3 (Building 8) - UU Installation and Enabling Works (by Others)	96	14-Feb-23 A	12-Jun-23	23-Mar-23	06-Jun-23	-5	
S12C-5760 S12C-5800	Stage 3A 18C Road L1 (Eldg 8) - UU enabling works (towngas)         Stage 3A 18C Road L1 (Eldg 8) - UU enabling works (132kV cross road ducts)	37 6	14-Feb-23 A 05-May-23	15-Mar-23 11-May-23	23-Mar-23 28-Apr-23	11-Apr-23 05-May-23	-5	
S12C-5810	Stage 3A 18C Road L1 (Edg 8) - UU erabling works (132kV)	12	12-May-23	25-May-23	06-May-23	19-May-23	-5	
S12C-5816	Stage 3A 18C Road L1 (Eldg 8) - UU enabling works (11kv)	12	27-May-23	09-Jun-23	20-May-23	03-Jun-23	-5	
S12C-5890	Stage 3A 18C Road L1 (B dg 8) - UU enabling works (telecom)	14	27-May-23	12-Jun-23	20-May-23	06-Jun-23	-5	
	1 - Stage 3 (Building 8) - Roadworks and Lighting	30	13-Jun-23	19-Jul-23	07-Jun-23	13-Jul-23	-5	
S12C-5952 S12C-5953	Stage 3 18C Road L1 (Bldg 8) - Road works (entrances)         Stage 3 18C Road L1 (Bldg 8) - Road works (Carriageway)	14 30	13-Jun-23 13-Jun-23	29-Jun-23 19-Jul-23	07-Jun-23 07-Jun-23	23-Jun-23 13-Jul-23	-5 -5	
	- Stage 4 (Building 9)	108	01-Mar-23	13-Jul-23	01-Mar-23	13-Jul-23	-5	
	1 - Stage 4 (Building 9) - Drainage & Sewage, Watermain & Flushing	61	01-Mar-23	16-May-23	01-Mar-23	16-May-23	0	
S12C-5792	Stage 4 18C Road L1 (Bldg 9) - Watermain and Flushing	27	01-Mar-23	31-Mar-23	01-Mar-23	31-Mar-23	0	
S12C-5942	Stage 4 18C Road L1 (Bldg 9) - Drainage	21	21-Apr-23	16-May-23	21-Apr-23	16-May-23	0	1 1



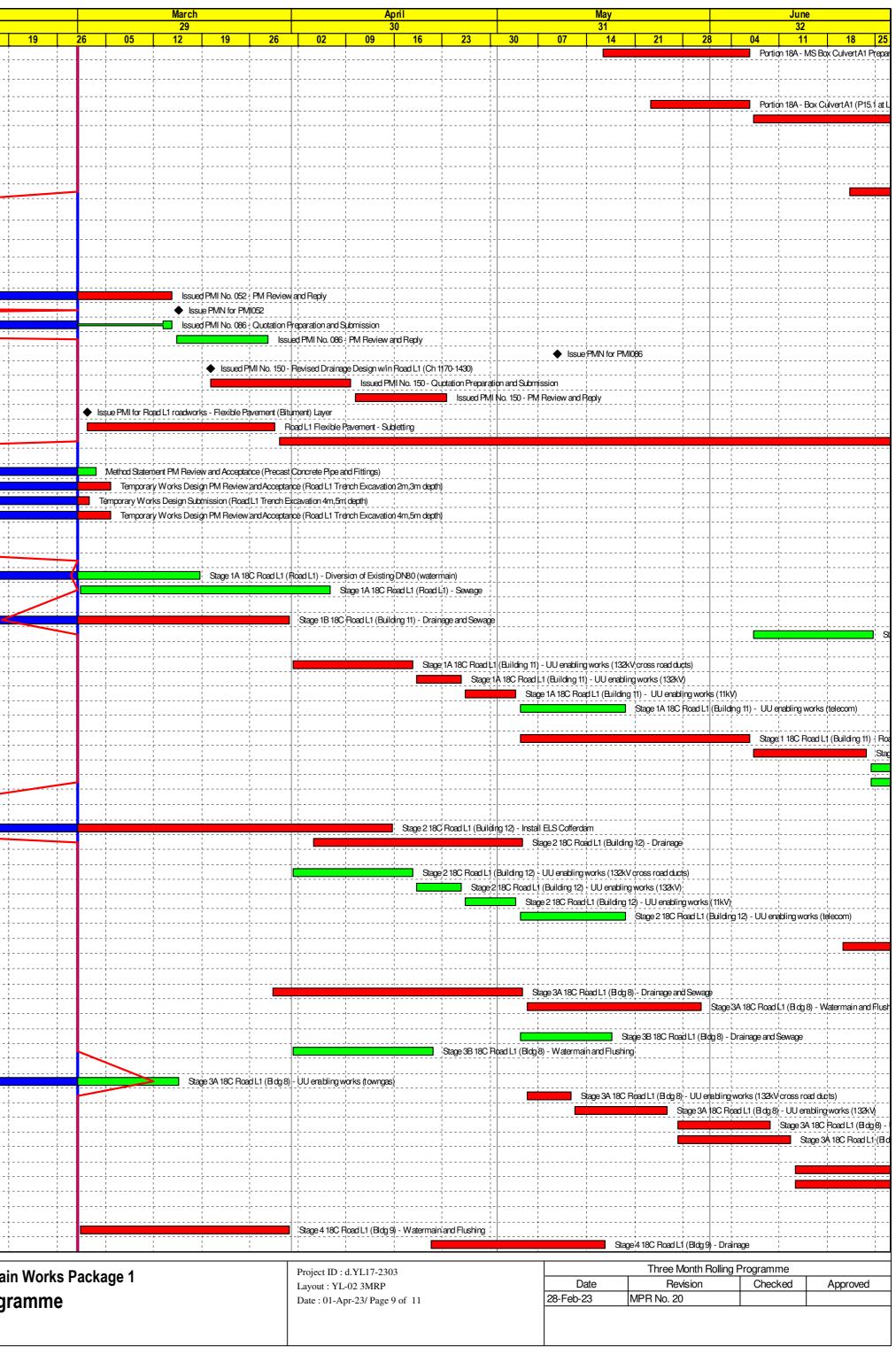
Actual Work

Remaining Work

Critical Remaining Work

♦♦ Milestone

Three Month Rolling Programme



D	Activity Name	Orig Dur	Early Start	Early Finish	Late Start	Late Finish	Total Float			28
		45	01 Arr 22	20 May 22	01 Arr 00	20 May 22		9	05	12
	- Stage 4 (Building 9) - UU Installation and Enabling Works (by Others)	45	01-Apr-23	30-May-23	01-Apr-23	30-May-23	0			
S12C-5815	Stage 4 18C Road L1 (Bldg 9) - UU enabling works (towngas)	13	01-Apr-23	20-Apr-23	01-Apr-23	20-Apr-23	0	·		
S12C-6010	Stage 4 18C Road L1 (Bldg 9) - UU enabling works (11kV cross road ducts)	6	21-Apr-23	27-Apr-23	21-Apr-23	27-Apr-23	0			
S12C-6620 S12C-6630	Stage 4 18C Road L1 (Bldg 9) - UU enabling works (132kV)	12	28-Apr-23	12-May-23	28-Apr-23	12-May-23	0			
	Stage 4 18C Road L1 (Bldg 9) - UU enabling works (11kV) Stage 4 18C Road L1 (Bldg 9) - UU enabling works (Telecom)	12	28-Apr-23	12-May-23	28-Apr-23	12-May-23	0	·		
S12C-6640		14	13-May-23	30-May-23	13-May-23	30-May-23	0			
	- Stage 4 (Building 9) - Roadworks and Lighting	30	07-Jun-23	13-Jul-23	07-Jun-23	13-Jul-23	0			
S12C-5935	Stage 4 18C Road L1 (Bldg 9) - Road works (Carriageway)	30	07-Jun-23	13-Jul-23	07-Jun-23	13-Jul-23	0			
	Stage 5 (Building 12, Box C)	93	28-Mar-23	22-Jul-23	22-Aug-22	20-Feb-24	172			, , ,
S12C-5875	Box Culvert C - Excavation and Install Structure to FEL at Line From CH 0-16	27	09-May-23	09-Jun-23	22-Aug-22	22-Sep-22	-208			   
S12C-5876	Box Culvert C - Construction of Box Culvert at Line From CH 0-16	35	10-Jun-23	22-Jul-23	23-Sep-22	04-Nov-22	-208			
S12C-6390	Interface Portion 18C - Allow Access to HSITP for Sewerage Pipe Construction (PS Appendix 1.27D)	90	28-Mar-23	19-Jul-23	31-Oct-23	20-Feb-24	175			
S12C Road L1	- Stage 5 (Building 12, Box C) - Drainage & Sewage, Watermain & Flushing	50	05-May-23	05-Jul-23	02-May-23	30-Jun-23	-3			-
S12C-5754	Stage 5 18C Road L1 (Building 12, Box C) - Drainage	38	05-May-23	19-Jun-23	02-May-23	15-Jun-23	-3			
S12C-5970	Portion 18C Road L1 (Building 12, Box C) - UU installation (drainage connection to Box C)	12	20-Jun-23	05-Jul-23	16-Jun-23	30-Jun-23	-3	1		
S12C Road L1	- Stage 5 (Building 12, Box C) - Roadworks and Lighting	25	20-Jun-23	20-Jul-23	16-Jun-23	17-Jul-23	-3	;		
S12C-6020	Portion 18C Road L1 (Building 12, Box C) - Road works (Carriageway)	25	20-Jun-23	20-Jul-23	16-Jun-23	17-Jul-23	-3			
	Stage 6 (CLP Substation)	26	05-Jun-23	06-Jul-23	01-Jun-23	03-Jul-23	-3			
S12C-5761	Stage 6 18C Road L1 (CLPSS) - UU installation (drainage, sewage)	26	05-Jun-23	06-Jul-23	01-Jun-23	03-Jul-23	-3	•		
							-153			
r	with HSITP Contractor	60	02-May-23	13-Jul-23	21-Oct-22	31-Dec-22		<b>.</b>		
S12C-3355	Interface Portion 17B - Excavation Works (Depth at 10m from Existing Level)	60	02-May-23	13-Jul-23*	21-Oct-22	31-Dec-22	-153			
	Interface Portion 17C & 17D - Excavation Works (Depth at 2m from Existing Level)	60	02-May-23	13-Jul-23*	21-Oct-22	31-Dec-22	-153			; 4
ction 12D -	Ground Treatment Works and Site Formation at Portion 18D (Are	198	13-Dec-21 A	13-Jun-23	24-Jan-22	17-Sep-22	-102			
D-1086	Area Occupied	431	24-Feb-22 A	30-Apr-23	24-Jan-22	25-Mar-22	-401	•		;
D-1090	Portion 18D - Level Ground (8.970m3)	9	31-May-23	09-Jun-23	25-Apr-22	05-May-22	-324	·		1
D-11090	Portion 18D - Instrumentation Installation Type C1 (MPX 6 nrs @ ave 3d/nr/rig, 4 rigs)	59	13-Dec-21 A	09-Jun-23	07-Sep-22	14-Sep-22	-215			
D-1100	Portion 18D - Instrumentation Installation Type C1 (VMP 12 nrs @ ave 6d/nr/rig, 4 rigs)	58	15-Dec-21A 15-Dec-21A	09-Jun-23	07-Sep-22 06-Sep-22	14-Sep-22 14-Sep-22	-215	· · · · · · ·		1
D-1110 D-1120	Portion 18D - Instrumentation Installation Type C1 (VNIP 1211's @ ave 30/m/rig, 4 rigs)	56	16-Dec-21A	09-Jun-23	07-Sep-22	14-Sep-22 14-Sep-22	-215	·		1
D-1120 D-1130	Portion 18D - Instrumentation Installation Type C1 (SP 6 nrs @ ave 30nn/ng, 4 ngs) Portion 18D - Instrumentation Installation Type C1 (SSM 6 nrs)	4	06-Jun-23	09-Jun-23	07-Sep-22 09-Sep-22	14-Sep-22 14-Sep-22	-215	·		1
					-			· · · · · · · · ·		
D-1135	Portion 18D - Formation (6,732m3 @ ave 900m3/d)	6	03-Jun-23	09-Jun-23	07-Sep-22	14-Sep-22	-215	· · · · · · ·		
D-1140	Portion 18D - Granular Fill (8,980m3 @ 1,500m3/d)	7	06-Jun-23	13-Jun-23	09-Sep-22	17-Sep-22	-215			
ction 13 - G	Ground Treatment Works and Site Formation at Portion 21	54	27-Oct-22 A	01-Apr-23	25-Aug-21	31-Oct-22	-59			1
-1060	Portion 21 - Construct DCM Clusters (DCM4, DCM7, DCM5 see Section 6)	88	27-Oct-22 A	17-Mar-23	25-Aug-21	25-Aug-21	-459			
-1070	Portion 21 - General Fill (6,520m3 @ 300m3/d)	8	24-Mar-23	01-Apr-23	22-Oct-22	31-Oct-22	-28			
otion 15 1	Ground Treatment Works and Site Formation at Portion 15.1 (An	194	13-Dec-21 A	09-Aug-23	20-Dec-21	04-Jun-22	-160			1
1-1105	Area Occupied	431	24-Feb-22 A	30-Apr-23	20-Dec-21	18-Feb-22	-436			
.1-1110	Portion 15.1 - PVD Installation (286,807m @ 2,000m/day/rig - 2 rigs)	84	13-Dec-21 A	31-May-23	19-Feb-22	21-Mar-22	-436			
.1-1120	Portion 15.1 - General Fill to Surcharge 2m High (39,140m3 @ 600m3/d)	58	01-Jun-23	09-Aug-23	22-Mar-22	04-Jun-22	-350			
ction 15.2 -	- Ground Treatment Works and Site Formation at Portion 15.2 (An	212	24-Feb-22 A	25-Sep-23	19-Dec-21	15-Jul-23	-28			1
2-1030	Portion 15.2 - MS Earthwork Preparation, Submission, & Approval	78	31-May-23	31-Aug-23	16-Mar-22	22-Jun-22	-354			
2-1138	Area Occupied	431	24-Feb-22 A	30-Apr-23	19-Dec-21	17-Feb-22	-437	·		
.2-1130	Portion 15.2 - PVD Installation (993,000m @ 3,000m/day/rig - 4 rigs)	74	30-Jun-23	25-Sep-23	19-Apr-22	18-Jul-22	-354	4		
.2-1380	Portion 15.2 - Stockpile Re-use of Material (PS 1.129 (2l)) (200,000 m3@ 1,800m3/d)	120	01-Mar-23	27-Jul-23	17-Feb-23	15-Jul-23	-10			
		120	29-Jan-22 A	23-Aug-23	27-Feb-22	20-Jul-22	-150			
ction 15.2a	- Ground Treatment Works and Site Formation at Portion 15.2a (	100	25001227	<i>and</i> y <i>a</i>	21-1 00-22	20-00-22	-100			
.2a-1085	Area Occupied	431	24-Feb-22 A	30-Apr-23	27-Feb-22	28-Apr-22	-367			
.2a-1090	Portion 15.2a - Instrumentation Installation Type C1 (SSM 7 nrs)	34	29-Jan-22 A	23-Aug-23	28-Jun-22	20-Jul-22	-324	1		
ction 15.2b	- Ground Treatment Works and Site Formation at Portion 15.2b (	431	11-Feb-22 A	27-Jul-23	05-Feb-22	03-Jul-22	-389			
		401	04 Eab 20 A	20 Apr 22	05 Ech 20	06 Apr 20	200			
	Area Occupied	431	24-Feb-22 A	30-Apr-23	05-Feb-22	06-Apr-22	-389			
2b-1110	Portion 15.2b - PVD Installation (206,250m @ 2,000m/day/rig - 2 rigs)	37	11-Feb-22 A	27-Jul-23	06-Jun-22	03-Jul-22	-389			
ction 15.3 -	- Ground Treatment Works and Site Formation at Portion 15.3 (An	221	13-Dec-21 A	11-Aug-23	16-May-22	23-Nov-22	-101			
.3-1035	Area Occupied	431	24-Feb-22 A	30-Apr-23	16-May-22	15-Jul-22	-289	<b> </b>		
.3-1040	Portion 15.3 - Level Ground (16,700m3)	36	30-Jun-23	11-Aug-23	14-Sep-22	27-Oct-22	-232			
3-1060	Portion 15.3 - Instrumentation Installation Type C1 (MPX 7 nrs @ ave 3d/nr/rig, 4 rigs)	45	31-Dec-21 A	06-Jun-23	14-Sep-22	20-Sep-22	-207			1
.3-1070	Portion 15.3 - Instrumentation Installation Type C1 (VMP 14 nrs @ ave 6d/nr/rig, 4 rigs)	95	13-Dec-21A	20-Jul-23	06-Oct-22	23-Nov-22	-190	·i		J
.3-1080	Portion 15.3 - Instrumentation Installation Type C1 (SP 7 nrs @ ave 3d/nr/rig, 4 rigs)	58	14-Dec-21A	06-Jun-23	06-Oct-22	12-Oct-22	-190			1
.3-1090	Portion 15.3 - Instrumentation Installation Type C1 (SSM 7 nrs)	6	07-Jun-23	13-Jun-23	13-Oct-22	19-Oct-22	-190	· · · · · ·		1
3-1100	Portion 15.3 - Instrumentation Installation Type C3 (Inc 7 nrs @ ave 3d/nr/rig, 4 rigs)	4	09-Jun-23	13-Jun-23	15-Oct-22	19-Oct-22	-190	+		J
3-1100 3-1110	Portion 15.3 - Instrumentation Installation Type C3 (ML 7115 @ ave somming, 411gs)	4	09-Jun-23	13-Jun-23	15-Oct-22 15-Oct-22	19-Oct-22	-190	+		
3-1115	Portion 15.3 - Formation (6,732m3 @ ave 900m3/d)	7	14-Jun-23		20-Oct-22	27-Oct-22	-190	·		 
			20-Dec-21 A	21-Jun-23	20-Oct-22 15-Dec-21		-190			
ction 15.4 -	- Ground Treatment Works and Site Formation at Portion 15.4 (An	210	20-Dec-21A	20-Jul-23	10-Dec-21	28-Jun-22	- 144	1		1
.4-1035	Area Occupied	431	22-Feb-22 A	30-Apr-23	15-Dec-21	13-Feb-22	-441			
.4-1040	Portion 15.4 - Level Ground (13,260m3)	42	31-May-23	20-Jul-23	10-May-22	28-Jun-22	-313	<b>—</b>		 
4-1050	Portion 15.4 - CPT (7 nrs @ ave 10 nrs/d/rig, 1 rig)	48	28-Dec-21A	06-Jun-23	10-May-22	16-May-22	-313	<b>⊢</b>		·
4-1060	Portion 15.4 - Instrumentation Installation Type C1 (MPX 30 nrs @ ave 3d/nr/rig, 12 rigs)	68	23-Dec-21A	23-Jun-23	10-Mar-22	07-Apr-22	-355	F		i
4-1070	Portion 15.4 - Instrumentation Installation Type C1 (VMP 60 nrs @ ave 6d/nr/rig, 12 rigs)	71	20-Dec-21A	23-Jun-23	10-Mar-22	07-Apr-22	-355			;
.4-1080	Portion 15.4 - Instrumentation Installation Type C1 (SP 30 nrs @ ave 3d/nr/rig, 12 rigs)	79	22-Dec-21A	06-Jul-23	10-Mar-22	22-Apr-22	-355	·····		;
		221	23-Dec-21A	21-Aug-23	17-Dec-21	16-Jun-22	-160	1		
	- Ground Treatment Works and Site Formation at Portion 15.5 (An							<b>.</b>		
5-1025	Area Occupied	431	24-Feb-22 A	30-Apr-23	17-Dec-21	15-Feb-22	-439			
.5-1030	Portion 15.5 - MS Earthwork Preparation, Submission, & Approval	60	10-Jun-23	21-Aug-23	31-Mar-22	16-Jun-22	-350	<u> </u>		
5-1080	Portion 15.5 - Instrumentation Installation Type C1 (SP 13nrs @ ave 3d/nr/rig, 8 rigs)	49	23-Dec-21 A	03-Jun-23	02-Mar-22	21-Mar-22	-353	⊨ →		+
5-1090	Portion 15.5 - Instrumentation Installation Type C1 (SSM 13nrs)	5	30-May-23	03-Jun-23	16-Mar-22	21-Mar-22	-353	<u> </u>		
5-1095	Portion 15.5 - Formation (40,356 m3 @ ave 900m3/d)	10	05-Jun-23	15-Jun-23	22-Mar-22	01-Apr-22	-353	[ ] ]		
5-1100	Portion 15.5 - Granular Fill (17,400m3@1,800m3/d)	12	16-Jun-23	30-Jun-23	02-Apr-22	20-Apr-22	-353	[ ]		
ction 15.6a	- Ground Treatment Works and Site Formation at Portion 15.6a (	431	24-Feb-22 A	30-Apr-23	14-Sep-22	13-Nov-22	-168			
51011-10-0a	· · · · · · · · · · · · · · · · · · ·	404	04 E-b 00 A	00 Arr 00	14.0	10 Mar 00	400	<u></u>		
Ga 0000	AreaOccupied	431	24-Feb-22 A	30-Apr-23	14-Sep-22	13-Nov-22	-168			
6a-0900		400	04 Esh 00 4	05 14 00	10 Mar 00	10 14 00	00			
	- Ground Treatment Works and Site Formation at Portion 15.7a (	188	24-Feb-22 A	25-Jul-23	16-Nov-22	10-May-23	-30			1



- Actual Work
- Remaining WorkCritical Remaining Work
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ctivity ID	Activity Name	Orig	Early Start	Early Finish	Late Start	Late Finish	Total			February				March				April			May					June
		Dur					Float			28				29				30			31					32
015 7- 4000	Destina 15.7 - Ote Oleman and Demanting Windor (Enclosing Langer, Trac Onesce)		01 Mar 00	00 km 00	45 E-h 00			9	05	12	19	2	.6 05	12	19	26	02	09 16	23	30	07 1	4	21	28		
S15.7a-1000	Portion 15.7a - Site Clearance and Preparation Works (Ecological survey, Tree Survey)	6	31-May-23	06-Jun-23	15-Feb-23	21-Feb-23	-84											·			· · · · · · · · · · · · · · · · · · ·	·	·		Portion	n 15.7a - Site Clearance and Pr
S15.7a-1040	Portion 15.7a - Level Ground (64,890m3)	40	07-Jun-23	25-Jul-23	20-Mar-23	10-May-23	-62						<del> </del>		·			·			· · · · · · · · · · · · · · · · · · ·	·	·			
S15.7a-1050	Portion 15.7a - CPT (4 ms @ ave 10ms/d/rig, 1 rig)	1	07-Jun-23	07-Jun-23	20-Mar-23	20-Mar-23	-62				- +							·			· · · · · · · · · · · · · · · · · · ·	·	·		Porți	tion 15.7a - CPT (4 nrs @ ave
S15.7a-1060	Portion 15.7a - Instrumentation Installation Type C1 (MPX 16 nrs @ ave 3d/nr/rig, 8 rigs)	6	07-Jun-23	13-Jun-23	22-Feb-23 22-Feb-23	28-Feb-23	-84				· - <del> </del>				·		·	·			·	·	·			Portion 15.7a - Instrum
S15.7a-1070	Portion 15.7a - Instrumentation Installation Type C1 (VMP 32 nrs @ ave 6d/nr/rig, 8 rigs)	24	07-Jun-23	06-Jul-23		21-Mar-23	-84																		;	
Section 1	5.7b - Ground Treatment Works and Site Formation at Portion 15.7b (	181	24-Feb-22 A	07-Jul-23	23-Nov-22	30-Mar-23	-39																		-	
S15.7b-0900	Area Occupied	431	24-Feb-22 A	30-Apr-23	23-Nov-22	22-Jan-23	-98													Area Occupie	d l	1				
S15.7b-1000	Portion 15.7b - Site Clearance and Preparation Works (Ecological survey, Tree Survey)	6	30-Jun-23	07-Jul-23	24-Mar-23	30-Mar-23	-77										1	1	1		1	1				
Section 15	5.8 - Reed Bed Area (Area Occupied)	220	24-Feb-22 A	16-Oct-23	08-Feb-22	23-Sep-22	-149																			
PRE-335	Portion 15.8 - Prepare, Submit & Coordination for Reed Transplant	90	30-Jun-23	16-Oct-23	09-Jun-22	23-Sep-22	-313		1						·			·								·
S15.8-1000	Area Occupied	431	24-Feb-22 A	30-Apr-23	08-Feb-22	09-Apr-22	-386		4			<del> </del>		- <u>L</u>	·		·				4	· <del>1</del>	·			,
		335	09-Nov-21A	27-Apr-24	23-Oct-23	31-Oct-25	215								· · · · · · · · · · · · · · · · · · ·			·				<u> </u>	·			·
	6 - Works Not Covered by Other Sections of the Works (Area Occupie																	,			·	·				
S16 Portior	19 of the Site - North Meander	195	09-Nov-21 A	20-Jul-23	23-Oct-23	11-Mar-24	91											1								1 I 1 I
S16-1035	Area Occupied	433	22-Feb-22 A	30-Apr-23	23-Oct-23	22-Dec-23	236													Area Occupie	d ¦		·			
S16-1050	Portion 9 - Instrumentation Installation Type C2 (INC 9 nrs @ 3d/nr/rig, 1 rig)	99	09-Nov-21 A	20-Jul-23	21-Feb-24	11-Mar-24	191		+													1				+
S16 Portior	15.6b of the Site	296	24-Feb-22 A	27-Apr-24	06-Jan-25	31-Oct-25	215																		-	
S16-1011	Area Occupied	431	24-Feb-22 A	30-Apr-23	06-Jan-25	08-Mar-25	677		· i		- <del>†</del>	<del>;</del>	+				·	·		Area Occupie	d :					
S16-1015	Interface - Portion 10 FSAD Excavation and ELS (Depth 2m from Existing Level)	148	30-Jun-23*	27-Apr-24	07-May-25	31-Oct-25	352		1		- <del>-</del>				· · · · · · · · · · · · · · · · · · ·		·	·								·
Section 20	) - Ground Treatment Works and Site Formation at Portion 15.6b (Are	178	24-Feb-22 A	29-Jun-23	23-Mar-23	21-Jul-23	9				- <del>-</del>				· · · · · · · · · · · · · · · · · · ·		·				· · · · · · · · · · · · · · · · · · ·	· <del>-</del> ! !	·			·
		178	24-Feb-22 A	29-Jun-23	23-Mar-23	01 Jul 20			 _						 		·				· · · · · · · · · · · · · · · · · · ·	·	·			, , , , , , , , , , , , , , , , , , ,
Section 20	- Ground Treatment Works at Portion 15.6b	170	24-F60-22 A	29-JUIF23	20-1V1al-20	21-Jul-23	9							   	· · · · · · · · · · · · · · · · · · ·			   	   							 
S20-0900	Area Occupied	431	24-Feb-22 A	30-Apr-23	23-Mar-23	22-May-23	22					4							J	Area Occupie	d					 
S20-1000	Portion 15.6b - Site Clearance and Preparation Works (Ecological survey, Tree Survey)	6	02-May-23	08-May-23	23-May-23	30-May-23	18							<b>L</b>				   			Portion 15.6b -	Site Clearan	ice and Prepa	aration Works	s (Ecological ٤) د	survey, Tree Survey)
S20-1010	Portion 15.60 - Level Ground (7,780m3)	36	09-May-23	20-Jun-23	31-May-23	13-Jul-23	18											י י 	, , , , , , , , , , , , , , , , , , , ,		i					Portion
S20-1020	Portion 15.60 - CPT (5 nrs @ ave 10nrs/d/rig, 1 rig)	1	09-May-23	09-May-23	31-May-23	31-May-23	18										·				Portion 15.6b				′!-	
S20-1030	Portion 15.6b - Instrumentation Installation Type C1 (MPX 14 nrs @ ave 3d/nr/rig, 8 rigs)	7	09-May-23	16-May-23	31-May-23	07-Jun-23	18											·				Portion 15.	6b - Instrume	Intation Install	ation Type C1	I (MPX 14 nrs @ ave 3d/nr/rig,
S20-1040	Portion 15.6b - Instrumentation Installation Type C1 (VMP 28 nrs @ ave 6d/nr/rig, 8 rigs)	23	17-May-23	13-Jun-23	08-Jun-23	06-Jul-23	18											·								Portion 15.6b - Instrum
S20-1050	Portion 15.60 - Instrumentation Installation Type C1 (SP 14 nrs @ ave 3d/nr/rig, 8 rigs)	7	06-Jun-23	13-Jun-23	28-Jun-23	06-Jul-23	18								· · · · · · · · · · · · · · · · · · ·			·								Portion 15.6b - Instrun
S20-1060	Portion 15.60 - Instrumentation Installation Type C1 (SSM 14 nrs)	7	06-Jun-23	13-Jun-23	28-Jun-23	06-Jul-23	18											·								Portion 15.6b - Instrun
S20-1070	Portion 15.6b - Granular Fill (19,010m3@1,500m3/d)	13	14-Jun-23	29-Jun-23	07-Jul-23	21-Jul-23	18				1			1				1				1				





Actual Work

Remaining Work

Critical Remaining Work

♦♦ Milestone

Contract YL/2020/01 - Lok Ma Chau Loop Main W Three Month Rolling Program

Warka Daakaga 1	Project ID : d.YL17-2303			Three Month Rolling	Programme	
Works Package 1	Layout : YL-02 3MRP		Date	Revision	Checked	Approved
mme	Date : 01-Apr-23/ Page 11 of 11		28-Feb-23	MPR No. 20		
		[				

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

ctivity ID A	Activity Name	Actual Duration		Start	Finish	Total Float		March	2023 April 02 09 16 23 3
estern Connection	n Road Phase 2, Connection Roads to Fanling/San Tin Highway and DRL Phase 1 (BL)	190	119	30-Aug-22 A	04-Jul-23	1571	19   26	05 12 19 26	
ection 1 of the Wor	rks-Completion of the Works within Portion 1,2A,2B,3,5,7,8,9&10 of the Site	84	64	23-Nov-22 A	27-May-23	1306			
Existing Cycle Track S	Subway Modification	43	64	12-Jan-23 A	27-May-23	1306			
Demolition Works		43		12-Jan-23 A	-	1306			
	Trial Pit to locate 132KV Alignment	43		12-Jan-23 A		1369		Trial Pit to locate 132KV Alignment	
	Protection Measures to 132kv line	4		02-Mar-23 A				Protection Measures to 132kv line	name Coffordam
	nstall Sheet Piling to Temporary Cofferdam	0		08-Mar-23	21-Mar-23	-283		Install Sheet Piling to Tem	<ul> <li>Demolition of top portion of cycle track ramp walls (Bay ST12)</li> </ul>
	Demolition of top portion of cycle track ramp walls (Bay ST12)	0		21-Mar-23	31-Mar-23	-283			Demolition of top portion of cycle track ramp walls (bay 5112)
	Demolition of top portion of cycle track ramp walls (Bay ST13) Demolition of top portion of cycle track ramp walls (Bay ST14)	0		31-Mar-23 15-Apr-23	15-Apr-23 26-Apr-23	-203			Demolition of the portion of operation of the monitor of the monitor of the portion of the monitor of the monit
	Demolition of lower portion of cycle track ramp walls (Bay ST12 to Bay ST14)	0		28-Apr-23	20-Api-23 27-May-23	-203			
Retaining Walls		84		23-Nov-22 A		-88			
Retaining Wall RW9		84		23-Nov-22 A	-	-88			
Preparation Works Stag	ge 1 - Bay 9-16	84		23-Nov-22 A	-	-105			
S014730.10 E	Excavate Bay 16-9	84	10	23-Nov-22 A	18-Mar-23	-105		Excavate Bay 16-9	
S014730.20 E	Excavate Bay 8-1	0	30	20-Mar-23	27-Apr-23	-105			Excavate Bay
RW9 Bay 9-16		0	63	08-Mar-23	25-May-23	-88			
Base Slab		0	24	20-Mar-23	20-Apr-23	-105			
S014735.70 F	Formworks, Rebar fixing and Cast Base Slab - Bay 12	0	6	20-Mar-23	25-Mar-23	-105		Formworks, R	ebar fixing and Cast Base Slab - Bay 12
S014735.80 F	Formworks, Rebar fixing and Cast Base Slab - Bay 11	0	6	27-Mar-23	01-Apr-23	-105			Formworks, Rebar fixing and Cast Base Slab - Bay 11
S014735.100 F	Formworks, Rebar fixing and Cast Base Slab - Bay 10	0	6	03-Apr-23	13-Apr-23	-105			Formworks, Rebar fixing and Cast Base Slab - Bay 10
S014735.90 F	Formworks, Rebar fixing and Cast Base Slab - Bay 9	0	6	14-Apr-23	20-Apr-23	-105			Formworks, Rebar fixing and Cast
Wall Stem		0	48	08-Mar-23	08-May-23	-113			
S014735.130 F	Formworks, Rebar fixing and Cast Wall Stem Bay 16	0	6	08-Mar-23	14-Mar-23	-113		Formworks, Rebar fixing and Cast Wall Stem	Bay 16
S014735.140 F	Formworks, Rebar fixing and Cast Wall Stem Bay 15	0	6	15-Mar-23	21-Mar-23	-113		Formworks, Rebar fixing a	1
	Formworks, Rebar fixing and Cast Wall Stem Bay 14	0	6	22-Mar-23	28-Mar-23	-113		Form	vorks, Rebar fixing and Cast Wall Stern Bay 14
	Formworks, Rebar fixing and Cast Wall Stem Bay 13	0	6	29-Mar-23	04-Apr-23	-113		_	Formworks, Rebar fixing and Cast Wall Stem Bay 13
	Formworks, Rebar fixing and Cast Wall Stem Bay 12	0	6		15-Apr-23	-113			Formworks, Rebar fixing and Cast Wall Stem Ba
	Formworks, Rebar fixing and Cast Wall Stem Bay 11	0		17-Apr-23	22-Apr-23	-113			Formworks, Rebar fixing and
	Formworks, Rebar fixing and Cast Wall Stem Bay 10	0		24-Apr-23	29-Apr-23	-113			Formwor
	Formworks, Rebar fixing and Cast Wall Stern Bay 9	0	-	02-May-23	08-May-23	-113			
Backfilling		0			25-May-23	-88			
	Backfilling and removal of sheetpile Bay 16-9	0			25-May-23	-88			
RW9 Bay 1-8		0		09-May-23	22-May-23	-113			
Bay 1-8 Base Slab		0		09-May-23	22-May-23	-113			
	Formworks, Rebar fixing and Cast Base Slab Bay 8	0		09-May-23 16-May-23	15-May-23 22-May-23	-113			
	formworks, Rebaining and Cast Base Slab Bay /	156		03-Oct-22 A		-68			
	e of LMC along CS1 & CS2 Slope (SB Side Ch.0 to Ch.170 from North Border)	18		15-Feb-23 A		-00			
Retaining Wall BP1		18		15-Feb-23 A		-7			
Installation of Bored Pil	iles (BPW1)	18		15-Feb-23 A		-7			
Bored Piles Ch.23 to Cl		18		15-Feb-23 A		-19			
S2A.Z1.1060.26 E	Excavate, Rebar Cage & fixing Bored Pile 26	6	0	15-Feb-23 A	21-Feb-23 A		Excavate, Rebar Cage & fixing Bored	Pile 26	
S2A.Z1.1060.27 E	Excavate, Rebar Cage & fixing Bored Pile 27	6	0	16-Feb-23 A	22-Feb-23 A		Excavate, Rebar Cage & fixing Bore	ed Pile 27	
S2A.Z1.1060.28 E	Excavate, Rebar Cage & fixing Bored Pile 28	6	0	17-Feb-23 A	23-Feb-23 A		Excavate, Rebar Cage & fixing B	Bored Pile 28	
S2A.Z1.1060.55 C	Concreting of Bored Pile 20-25 (5 nos)	0	0	23-Feb-23 A	23-Feb-23 A		Concreting of Bored Pile 20-25 (5	nos)	
S2A.Z1.1060.29 E	Excavate, Rebar Cage & fixing Bored Pile 29	6	4	01-Mar-23 A	11-Mar-23	-19		Excavate, Rebar Cage & fixing Bored Pile 29	
S2A.Z1.1060.30 E	Excavate, Rebar Cage & fixing Bored Pile 30	0	6	09-Mar-23	15-Mar-23	-19		Excavate, Rebar Cage & fixing Bored Pile 3	0
S2A.Z1.1060.31 E	Excavate, Rebar Cage & fixing Bored Pile 31	0	6	13-Mar-23	18-Mar-23	-19		Excavate, Rebar Cage & fixing Bo	ed Pile 31
S2A.Z1.1060.32 E	Excavate, Rebar Cage & fixing Bored Pile 32	0	6	15-Mar-23	21-Mar-23	-19		Excavate, Rebar Cage &	ixing Bored Pile 32
S2A.Z1.1060.60 C	Concreting of Bored Pile 25-30 (5 nos)	0	1	22-Mar-23	22-Mar-23	-19		Concreting of Bored Pi	e 25-30 (5 nos)
(Bored Piles Ch.48 to C	Ch.65 (12 Nos)	0	22	23-Mar-23	21-Apr-23	-7			
S2A.Z1.1060.33 E	Excavate, Rebar Cage & fixing Bored Pile 33	0	6	23-Mar-23	29-Mar-23	-19			avate, Rebar Cage & fixing Bored Pile 33
S2A.Z1.1060.34 E	Excavate, Rebar Cage & fixing Bored Pile 34	0	6	24-Mar-23	30-Mar-23	-19			Excavate, Rebar Cage & fixing Bored Pile 34
	Excavate, Rebar Cage & Concreting Bored Pile 35	0		25-Mar-23	31-Mar-23	-19			Excavate, Rebar Cage & Concreting Bored Pile 35
	Excavate, Rebar Cage & Concreting Bored Pile 36	0		27-Mar-23	01-Apr-23	-19			Excavate, Rebar Cage & Concreting Bored Pile 36
	Excavate, Rebar Cage & Concreting Bored Pile 37	0		28-Mar-23	03-Apr-23	-19			Excavate, Rebar Cage & Concreting Bored Pile 37
	Excavate, Rebar Cage & Concreting Bored Pile 38	0		29-Mar-23	04-Apr-23	-19		_	Excavate, Rebar Cage & Concreting Bored Pile 38
	Excavate, Rebar Cage & Concreting Bored Pile 39	0		30-Mar-23	06-Apr-23	-19		-	Excavate, Rebar Cage & Concreting Bored Pile 39
	Excavate, Rebar Cage & Concreting Bored Pile 40	0		31-Mar-23	11-Apr-23	-19			Excavate, Rebar Cage & Concreting Bored Pile 40
	Excavate, Rebar Cage & Concreting Bored Pile 41	0	6		18-Apr-23	-7			Excavate, Rebar Cage & Concreting Bo
	Excavate, Rebar Cage & Concreting Bored Pile 42	0		13-Apr-23	19-Apr-23	-7			Excavate, Rebar Cage & Concreting
	Excavate, Rebar Cage & Concreting Bored Pile 43	0	-	14-Apr-23	20-Apr-23	-7			Excavate, Rebar Cage & Concreti
	Excavate, Rebar Cage & Concreting Bored Pile 44	0		15-Apr-23	21-Apr-23	-7			Excavate, Rebar Cage & Conci
	outh-Eastside of LMC (approx. 580m) (Ch.+340 to Ch.+920)	127		03-Oct-22 A		-223			
Preparation Works		127		03-Oct-22 A 03-Oct-22 A		-223		0to Olog	rance in Zone 5
SOA 75 5450			17	U.3-UCI-22 A	z/-Mar-23	-223		Site Clea	
	Site Clearance in Zone 5								
Shifting of U/G Utilties	mplement TTA on Footpath	0	60	06-Apr-23 06-Apr-23	20-Jun-23 06-Apr-23	-223			Implement TTA on Footpath





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



L Phase	1				
L 1 11030	1				
	May				June
30 0	)7   1	4 2	1	28	04   11
alls (Bay ST13)					
op portion of cycle trac	k ramp walls (Bay S				
			D	emolition of lower	portion of cycle track ramp
ay 8-1					
10					
st Base Slab - Bay 9					
Bay 12					
nd Cast Wall Stem Ba	y 11				
vorks, Rebar fixing and					
For	mworks, Rebar fixin	g and Cast Wall Ste	m Bay 9		
			Backfilli	ing and removal o	f sheetpile Bay 16-9
				· · · · ·	
-	Fo	mworks, Rebar fixin			
	-	For	mworks, Rel	bar fixing and Cast	Base Slab Bay 7
Bored Pile 41					
ng Bored Pile 42					
eting Bored Pile 43					
ncreting Bored Pile 44					
		3 Months	Rolling	g Programn	ne
	Date	Revisio		Checked	
	08-Mar-23			DML	RP/RS
Work	50-IVIAI=23	110V.Z. IN			

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

tivity ID	Activity Name		Remaining	Start	Finish	Total			March	2023 April	
004 77 716 1		Duration	Duration	44.4		Float	19	26	05 12 19 26	02 09 16 23	30
S2A.Z5.5120.20	Trial Pit to expose existing utilities	0	6		17-Apr-23	-223				Trial Pit to expose existing utilities	
S2A.Z5.5120.30	Trench excavation	0	18		09-May-23	-223					
S2A.Z5.5120.40	Liaise and Coordinate with Utility Co. and Shift existing utilities clashing with RW6	0		10-May-23	20-Jun-23	-223					
	vay South of NB16 at LMC Rd. (approx. 580m) (NB & SB Ch.+340 to Ch.+920)	0		07-May-23	31-May-23	-211					
	(along NB of LMC Rd.)	0	25	07-May-23	31-May-23	-211					
S2A.Z6.6620	Implement TTA	0	1	07-May-23	07-May-23	-211					
S2A.Z6.6680	Expose Cable alignment	0	24	08-May-23	31-May-23	-211					
Section 2C of the	e Works- Completion of Substructure and Piling Works of ST01 and CTFB	48	94	07-Jan-23 A	04-Jul-23	101					
Substructure and F	Piling Works for Bridge ST01	48	71	07-Jan-23 A	05-Jun-23	124					
G.I and Pre-drilling		32	18	30-Jan-23 A	28-Mar-23	-56					
Pre-drilling		32	18	30-Jan-23 A	28-Mar-23	-56					
S02CP3290	Predriling EIBC-PD5	9	0	30-Jan-23 A	09-Feb-23 A						
S02CP3330	Predrilling EIBC-PD7	13	0	04-Feb-23 A	20-Feb-23 A		rilling EIBC-PD7				
S02CP3280	- Predriling EIBC-PD4	11	6	23-Feb-23 A	14-Mar-23	-56			Predrilling EIBC-PD4		
S02CP3310	Predriling EIBC-PD3	0		15-Mar-23	21-Mar-23	-56			Predrilling EIBC-PD3		
S02CP3350	Predriling EIBC-PD8	0		22-Mar-23	28-Mar-23	-56			-	illing EIBC-PD8	
Piling Works		36		07-Jan-23 A	05-Jun-23	124					
	ed piles for Pier ST01-P06										
		36		07-Jan-23 A	11-Mar-23	172					
S02CP3580.1	Install Steel Casing and Excavation (drilling)	25		07-Jan-23 A			ı (drilling)				
S02CP3580.2	Rebar Cage lowering and fixing	9		09-Feb-23 A			age lowering and fi	-			
S02CP3580.3	Inspection & Concreting	1	0	21-Feb-23 A	21-Feb-23 A		Inspection & Concr	reting			
S02CP3600	Sonic test and interface core	0	3	09-Mar-23	11-Mar-23	172			Sonic test and interface core		
Installation of bored	ed piles for Pier DK-01	0	53	29-Mar-23	05-Jun-23	124					
S02CP3790	Mobilisation and Set-up of Plant	0	12	29-Mar-23	15-Apr-23	-56			_	Mobilisation and Set-up of Plant	
S02CP3780	Installation of bored piles for Pier DK-01 (2 nos) (subject to change based on proposed EIBC)	0	24	17-Apr-23	15-May-23	-56					
S02CP3800	Sonic test and interface core	0	3	02-Jun-23	05-Jun-23	124					
Pilehead Treatment,	t,Pile Cap and Pier/Abutment Construction	7	65	28-Feb-23 A	29-May-23	45					-
At Pier ST01-P02		7		28-Feb-23 A	-	45					
S02CP3820	Excavation and pilehead treatment	7		28-Feb-23 A	21-Mar-23	-180			Excavation and pilehead	treatment	
S02CP3830	Construction of pile cap	0		24-Mar-23	13-Apr-23	-180				Construction of pile cap	
S02CP3840	Construction of pier	0		22-Apr-23	13-May-23	45					
	Construction of per	0			,	45					
At Pier ST01-P03		4		03-Mar-23 A	29-May-23	45					
S02CP3855	Excavation and pilehead treatment	4		03-Mar-23 A	21-Mar-23	-175			Excavation and pilehead		
S02CP3860	Construction of pile cap	0	14	28-Mar-23	17-Apr-23	-180				Construction of pile cap	
S02CP3870	Construction of pier	0	18	08-May-23	29-May-23	45					
Substructure and F	Piling Works for CTFB	7	94	28-Feb-23 A	04-Jul-23	-56					
Piling Works		7	94	28-Feb-23 A	04-Jul-23	-56					
Installation of Bore	ed Pile for Abutment FBA-01 (Change to 8 nos H-Pile) (Subject to MTR Acceptance)	7	60	28-Feb-23 A	22-May-23	-49					
S02C802	Loading Test of Trial Pile (FBA-01-P4)	7	10	28-Feb-23 A	18-Mar-23	-46			Loading Test of Trial Pile (FBA-01	P4)	
S02C692	Installation/Construction of Socket H-Pile FBA-01-P1	0	6	20-Mar-23	25-Mar-23	-46			Installation/Co	nstruction of Socket H-Pile FBA-01-P1	
S02C702	Installation/Construction of Socket H-Pile FBA-01-P2	0	6	23-Mar-23	29-Mar-23	-46			In:	taliation/Construction of Socket H-Pile FBA-01-P2	
S02C712	Installation/Construction of Socket H-Pile FBA-01-P3	0	6	27-Mar-23	01-Apr-23	-46				Installation/Construction of Socket H-Pile FBA-01-P3	-
S02C742	Installation/Construction of Socket H-Pile FBA-01-P5	0		03-Apr-23	13-Apr-23	-46				Installation/Construction of Socket H-Pile FBA-0	01-P5
S02C772	Installation/Construction of Socket H-Pile FBA-01-P6	0		11-Apr-23	17-Apr-23	-46				Installation/Construction of Socket H	
		0								Installation/Construction of S	1
S02C782	Installation/Construction of Socket H-Pile FBA-01-P7			14-Apr-23	20-Apr-23	-46				Installation/Consudction of a	1
S02C792	Installation/Construction of Socket H-Pile FBA-01-P8	0		18-Apr-23	24-Apr-23	-46				installation/Cons	Jun CuOn OT
S02C683	Sonic test and interface core	0		16-May-23	22-May-23	-49					
	ed Pile for Pier FBP-01	0	20	09-Jun-23	04-Jul-23	-56					
S02C684	Installation of bored piles for Pier FBP-01 (2 nos)	0	20	09-Jun-23	04-Jul-23	-56					
Installation of Bore	ed Pile for Pier FBP-04	0	20	16-May-23	08-Jun-23	-56					
S02C720	Installation of bored piles for Pier FBP-04 (2 nos) (subject to change based on proposed EIBC)	0	20	16-May-23	08-Jun-23	-56					
Pilehead Treatment,	t,Pile Cap and Pier/Abutment Construction	0	54	18-Apr-23	21-Jun-23	-153					
At Pier FBP-06		0		18-Apr-23	21-Jun-23	-153					
S02C748	Installation of ELS	0		18-Apr-23	04-May-23	-180					
S02C749	Excavation and pilehead treatment	0		05-May-23	18-May-23	-153					
S02C750	Construction of pile cap	0		19-May-23	21-Jun-23	-153					
		-									
	Works- Completion of the works of Direct Road Link within Portion 1,2A,2B, 5 and 9	154		30-Aug-22 A		-84					
Preparation Works		154		30-Aug-22 A		-70					
S031190	Preparation Works - DSD Approval. Temp. Works Design & Approval - (working platform in nullah - DRL-P07)	154		30-Aug-22 A		-70			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 overall design review of DRL)	0	30	18-Mar-23	26-Apr-23	-70				Constructio	on of a wo
G.I and Pre-drilling	J	0	24	27-Apr-23	25-May-23	-54					
Pre-drilling Works		0	24	27-Apr-23	25-May-23	-54					
	Pre-drilling works for Pier DRL-P07 (Subject to proposed change and overall design review of DRL)	0	14	27-Apr-23	13-May-23	-44					<u> </u>
S031070	Installation of working platform and Pre-drilling works for Pier DRL-P06 (PD01)	0	24	27-Apr-23	25-May-23	-70					<u> </u>
S031070 S031180					-	77					
S031180		11	86	21-Feb-23 A	23-Jun-23	-77					
S031180 Piling Works (Subje	ject to Overall DRL Design Review)	11 0									
S031180 Piling Works (Subjection of Borection)	ject to Overall DRL Design Review) d Piles for Pier DRL-P11 (Subject to Overall DRL Design Review)	0	86	08-Mar-23	23-Jun-23	-173				Excavate. Rebar Cage & Concreting DRL-P11-P1	
S031180 Piling Works (Subju Installation of Borect S031520	ject to Overall DRL Design Review) kd Piles for Pier DRL-P11 (Subject to Overall DRL Design Review) Excavate, Rebar Cage & Concreting DRL-P11-P1	0	86 20	08-Mar-23 08-Mar-23	23-Jun-23 30-Mar-23	-173 -173				Excavate, Rebar Cage & Concreting DRL-P11-P1	e. Rebar (
S031180 Piling Works (Subju Installation of Borec S031520 S031540	Ject to Overall DRL Design Review) d Piles for Pier DRL-P11 (Subject to Overall DRL Design Review) Excavate, Rebar Cage & Concreting DRL-P11-P1 Excavate, Rebar Cage & Concreting DRL-P11-P2	0	86 20 20	08-Mar-23 08-Mar-23 31-Mar-23	23-Jun-23 30-Mar-23 27-Apr-23	-173 -173 -173				1	ite, Rebar (
S031180 Piling Works (Subju Installation of Borect S031520	ject to Overall DRL Design Review) kd Piles for Pier DRL-P11 (Subject to Overall DRL Design Review) Excavate, Rebar Cage & Concreting DRL-P11-P1	0	86 20 20	08-Mar-23 08-Mar-23	23-Jun-23 30-Mar-23	-173 -173				1	te, Rebai







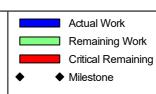
RL Phase	1						
	, I						
30	07	ay 14	21	28		June 04	11
= Imp	ement TTA						
le FBA-01-P6 sket H-Pile FBA-01-P7 ction of Socket H-Pile FBA-01-P8					Expose Cable	alignment	
		netallation of hor	ad pilos for Pi	or DK 01 (2 p	s) (subject to c	hange based (	
			eu piles ioi r i			Sonic test and	
	Const	ruction of pier					
				Cons	truction of pier		
-P5 21e FBA-01-P6							
cket H-Pile FBA-01-P7							
	FDA-01-F0		Sonic test	and interface o	ore		
						_	
						Installa	ation of t
Installation o	fELS	Excavati	on and pilehe	ead treatment			
of a working platform i	n Nullah for DRL-P	07 (Subject to pr	oposed chan	ge and overal	design review	of DRL)	
	Pre-dr	illing works for Pi	er DRL-P07 (	Subject to pro	posed chance	and overall de	sign revi
					rking platform		
Rebar Cage & Concre	eting DRL-P11-P2			Pabar C-	Converting 5		
					Concreting DF	∿-⊤11+73	
	Date		nths Ro vision	lling Prog	gramme lecked	Approv	ned .
	08-Mar-23	_		DML		RP/RS	cu
g Work							

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

tivity ID	Activity Name	Actual	Remaining	Start	Finish	Total												2023			_
-		Duration	Duration	i i		Float		26		Mai		40					April	- 40			Т
S031560	Excavate, Rebar Cage & Concreting DRL-P11-P4	0	20	) 23-May-23	15-Jun-23	-173		26	05	12		19	26		02	09		16		23	T
	Interface core and sonic test	0		5 16-Jun-23	23-Jun-23	-173															
nstallation of Bored P	iles for Pier DRL-P10	0	21	02-May-23	25-May-23	-168															
S031250	Implementation of TTA	0		02-May-23	02-May-23	-168															
	Installation of bored piles for Pier DRL-P10 (2 nos)	0	20	03-May-23	25-May-23	-168															
stallation of Bored P		0		2 24-May-23	19-Jun-23	-168															
5031300	Implementation of TTA	0		24-May-23	24-May-23	-147															
S031310	Installation of bored piles for Pier DRL-P9 (2 nos)	0	20	27-May-23	19-Jun-23	-168															
nstallation of Bored P	iles for Pier DRL-P04	0	3	8 08-Mar-23	10-Mar-23	6															
S031360	Interface core and sonic test	0	3	8 08-Mar-23	10-Mar-23	6				nterface core a	nd sonic test										
nstallation of Bored P	iles for Approach Ramp at U-Through(12 nos) (Change to Socket H-Piles 17 nos)	11	(	21-Feb-23 A	04-Mar-23 A																
S03100.30	Installation of Socket H-Pile AP00- E-P1	6	(	21-Feb-23 A	28-Feb-23 A	_	In	stallation of Socke	et H-Pile AP	00- E-P1											
	Installation of Socket H-Pile AP00- E-P2	6		21-Feb-23 A			In	stallation of Socke	et H-Pile AP	00- E-P2											
503100.50	Installation of Socket H-Pile AP00- E-P3	6	(	25-Feb-23 A	03-Mar-23 A			Installatio	n of Socket	H-Pile AP00- I	-P3										
603100.60	Installation of Socket H-Pile AP00- E-P4	6	0	25-Feb-23 A	03-Mar-23 A			Installatio	n of Socket	H-Pile AP00- B	-P4										
03100.70	Installation of Socket H-Pile AP00- E-P5	6	0	27-Feb-23 A	04-Mar-23 A		_	Installa	ation of Socl	ket H-Pile AP0	)- E-P5										
03100.80	Installation of Socket H-Pile AP00- E-P6	6	(	27-Feb-23 A	04-Mar-23 A		_	Installa	ation of Socl	ket H-Pile AP0	)- E-P6										
lehead Treatment a	and Construction of Pile Cap	0	48	05-May-23	03-Jul-23	-139			-												
t Pier DRL P-13		0	45	6 05-May-23	28-Jun-23	-136															
5031600	Installation of ELS	0		05-May-23	16-May-23	-180															
6031610	Excavation and pilehead treatment	0	14	17-May-23	02-Jun-23	-180															
031620	Construction of pile cap	0	21	03-Jun-23	28-Jun-23	-136															
t Pier DRL P-12		0	24	03-Jun-23	03-Jul-23	-180															
5031630	Installation of ELS	0	10	03-Jun-23	14-Jun-23	-180															
031640	Excavation and pilehead treatment	0	14	15-Jun-23	03-Jul-23	-180															
ection 5 of the Wo	orks- Completion of the works within Portion 6 of the Site	19	65	5 14-Feb-23 A	29-May-23	1305															
	Implement TTA Stage 1	0	(	) 14-Feb-23 A	14-Feb-23 A	1															
050100-30	Construction of Pai Lau - Columns Construction	12	(	) 15-Feb-23 A	28-Feb-23 A			Construction of Pa	ai Lau - Colu	umns Construc	tion										
050100-80	Backfill and Reinstae Concrete Paving -South	6	4	01-Mar-23 A	11-Mar-23	1364				Backfill and I	Reinstae Con	crete Paving	-South								
050100-40	Implement TTA Stage 3	1	(	01-Mar-23 A	02-Mar-23 A			💼 Implement T	TA Stage 3												
050100-45	Construction of Pai Lau - Columns construction under TTA Stage 3	3	12	04-Mar-23 A	21-Mar-23	-104			_			Constructio	n of Pai Lau	- Columns cor	nstruction un	der TTA Sta	ige 3				
050100-90	Asphalt Paving to Carriageway (Middle)	0	2	2 13-Mar-23	14-Mar-23	1364				📩 Aspi	nalt Paving to	Carriageway	(Middle)								
050100-50	Backfill and road reinstate Concrete Paving - North	0	6	22-Mar-23	28-Mar-23	-104							Bac	kfill and road r	einstate Cor	crete Pavin	g - North				
050100-100	Asphalt to Carriageway	0	2	29-Mar-23	30-Mar-23	-104							_	Asphalt to Ca	arriageway						
050100-55	Implement TTA Stage 4	0	1	31-Mar-23	31-Mar-23	-104								Implement	it TTA Stage	4					
050100-85	Erect Portal Falsework Support	0	7	01-Apr-23	13-Apr-23	-104											Erect Po	rtal Falsewo	k Support		
050100-60	Construction of Pai Lau - cantilever structure above columns under TTA Stage 4	0	30	0 14-Apr-23	19-May-23	-104															_
	Construction of Pai Lau - Remove formworks and reprop	0	7	20-May-23	29-May-23	-104			-												







0   0	May 7	/ 14	21	2	B	June 04	1
plementation of T	TA			etallation of h	red piles for P		) (2 noc)
					pred piles for P		, (z 110\$
			Impl	ementation of	TTA		
		Installation of E	ELS				
					Excava	ition and pil	ehead tr
		Const			ver structure at		
				Con	struction of Pa	i Lau - Rem	ove form
					gramme		
	Date 08-Mar-23		vision		necked	Appi RP/R	

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

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383						
	11-Jun-2	22 A 14-Mar-23	28-Feb-22	30-Dec-22	-74	
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0	01-Mar-		28-Feb-22		-366	
0	01-Mar	-23 01-Mar-23	28-Feb-22	27-Aug-22	-186	
0	01-Mar-	-	27-Aug-22		-186	
0	01-Mar- 11-Jun-2	-	28-Feb-22 13-Jul-22	30-Dec-22	-366 -74	
383	11-Jun-2		13-Jul-22	30-Dec-22	-74	
379	11-Jun-2	22 A 14-Mar-23	13-Jul-22	27-Jul-22	-230	
21	11-Jun-2		13-Jul-22	13-Jul-22	-230	
14	01-Mar 05-Mar-2		14-Jul-22 17-Dec-22	27-Jul-22 30-Dec-22	-230 -74	
14	05-Mar-2		17-Dec-22	30-Dec-22	-74	
159	01-Apr-2	22 A 27-Jul-23	07-Mar-22	27-Aug-26	439	
15	13-Feb-2	23 A 01-Mar-23	07-Mar-22	27-Aug-26	1275	
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120	16-May-	· · · ·	07-Dec-24	10-May-25	526	
104	07-Feb-2		06-Oct-22	27-Aug-26	947	
25	08-Feb-2		10-Nov-22	10-Nov-22		
0	01-Mar	-23 04-Apr-23	06-Oct-22	30-Mar-23 09-Nov-22	-118	
n) 25	07-Feb-2	· · ·	10-Nov-22	10-Nov-22	-110	
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223 30	08-Sep-2		26-Sep-22 26-Sep-22	13-Jun-23 01-Nov-22	-125	
30	17-Sep-2	· · ·	26-Sep-22	01-Nov-22	-125	
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a Chau Static 22	09-Sep-2		30-Nov-22	30-Nov-22	-71	
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ar Wall Open 18	28-Nov-2		17-Nov-22	02-Dec-22	-82	
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Paul Y. – Chun Wo – CRCC JV

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PRE-0866 Approval from MTR and others on Design Drawing Submissions for E&M Modification of Al		04-Mar-23	21-Mar-23*	10-Jan-23	31-Jan-23	-42	
Method Statement Submission	14	05-Jan-23 A	01-Mar-23	26-Aug-26	26-Aug-26	1031	
PRE-0874 Approval from MTR and others on Method Submissions for E&M Modification of AHU-025 <b>E&amp;M Diversion for Existing Block Wall at L2</b>	14 76	05-Jan-23 A 06-Jan-23 A	01-Mar-23 13-Apr-23	26-Aug-26 08-Oct-22	26-Aug-26 04-Mar-23	1031 -30	
Design Submission	41	21-Feb-23 A	13-Apr-23	20-Jan-23	04-Mar-23	-30	
PRE-0879 ICE Certification for Design Drawings of E&M Modification of AHU-025 at L2	9	21-Feb-23 A	02-Mar-23	20-Jan-23	26-Jan-23	-30	
PRE-0880 Comment from MTR & others on Design Drawings for E&M Modification of AHU-025 at L2	13	03-Mar-23	17-Mar-23	27-Jan-23	10-Feb-23	-30	
PRE-0881 Resubmission of Design Drawings for E&M Modification of AHU-025 at L2	19	18-Mar-23	13-Apr-23*	11-Feb-23	04-Mar-23	-30	
Method Statement Submission	19	06-Jan-23 A	22-Mar-23	08-Oct-22	29-Oct-22	-116	
PRE-0889 Approval from MTR and others on Method Submissions for E&M Modification of AHU-025		06-Jan-23 A	22-Mar-23	08-Oct-22	29-Oct-22	-116	
Strengthening Works Materials and Shop Drawings Submission	97 82	26-Oct-22 A 26-Oct-22 A	29-Apr-23 12-Apr-23	28-Oct-22 15-Nov-22	22-Dec-22 22-Dec-22	-99 -84	
PRE-1015 comment from MTR and others on materials and shop drawings submission for Strengther		26-Oct-22 A	01-Mar-23	15-Nov-22	15-Nov-22	-84	
PRE-1025 Resubmission of materials and shop drawings submission for strengthening works	7	07-Mar-23 A	17-Mar-23	16-Nov-22	01-Dec-22	-84	
PRE-1035 Approval from MTR and Others on materials and shop drawings submission for Strengther	18	18-Mar-23	12-Apr-23	02-Dec-22	22-Dec-22	-84	
Method Statement Submission	48	01-Mar-23	29-Apr-23	28-Oct-22	22-Dec-22	-99	
PRE-1055 Comment from MTR and others on materials and shop drawings submission for Strengthe	18	01-Mar-23	21-Mar-23	28-Oct-22	17-Nov-22	-99	
PRE-1065 Resubmission of materials and shop drawings submission for strenthening works	12	22-Mar-23	04-Apr-23	18-Nov-22	01-Dec-22	-99	·
PRE-1075 Approval from MTR and Others on materials and shop drawings submission for Strengther		06-Apr-23	29-Apr-23	02-Dec-22	22-Dec-22	-99	·
Mezzanine Floor Materials and Shop Drawings Submission	117 82	26-Oct-22 A 26-Oct-22 A	24-May-23 12-Apr-23	22-Mar-23 11-Apr-23	15-Jun-23 19-May-23	18 31	
PRE-1095 comment from MTR and others on materials and shop drawings submission for Strengther		26-Oct-22 A	01-Mar-23	11-Apr-23	11-Apr-23	31	·
PRE-1105 Resubmission of materials and shop drawings submission for strenthening works	12	07-Mar-23 A	17-Mar-23	12-Apr-23	27-Apr-23	31	
PRE-1115 Approval from MTR and Others on materials and shop drawings submission for Strengther	18	18-Mar-23	12-Apr-23	28-Apr-23	19-May-23	31	
Method Statement Submission	68	01-Mar-23	24-May-23	22-Mar-23	15-Jun-23	18	
PRE-1125 Preparation & submission of method statement for Strengthening works	24	01-Mar-23	28-Mar-23	22-Mar-23	22-Apr-23	18	
PRE-1135 Comment from MTR and others on materials and shop drawings submission for Strengthe		29-Mar-23	22-Apr-23	24-Apr-23	15-May-23	18	 
PRE-1145 Resubmission of materials and shop drawings submission for strenthening works	12	24-Apr-23	08-May-23	16-May-23	30-May-23	18	
PRE-1155 Approval from MTR and Others on materials and shop drawings submission for Strengther		09-May-23	24-May-23	31-May-23	15-Jun-23	18	
Hoarding Erection (Stage 2) Design Submission	48 48	04-Feb-23 A 04-Feb-23 A	31-Mar-23 31-Mar-23	22-Nov-22 22-Nov-22	22-Dec-22 22-Dec-22	-78 -78	
Design Submission           PRE-1315         Resubmission of Design Drawings for Hoarding Erection (Stage 2)	48 25	04-Feb-23 A 04-Feb-23 A	04-Mar-23 A	22-Nov-22 22-Nov-22	22-Dec-22 22-Nov-22	-76	
PRE-1405 ICE Certification for resubmission Design Drawings for Hoarding Erection (Stage 2)	12	06-Mar-23 A	10-Mar-23	22-Nov-22	01-Dec-22	-78	
PRE-1415 Approval from MTR and Others on Desgin Drawings for Hoarding Erection (Stage 2)	18	11-Mar-23	31-Mar-23	02-Dec-22	22-Dec-22	-78	
Method Statement Submission	44	04-Feb-23 A	31-Mar-23	02-Dec-22	22-Dec-22	-78	
PRE-1345 Resubmission of method statement for Hoarding Erection (Stage 2)	26	04-Feb-23 A	06-Mar-23 A	02-Dec-22	02-Dec-22		
PRE-1355 Approval from MTR and Other on method statement for Hoarding Erection (Stage 2)	18	07-Mar-23 A	31-Mar-23	02-Dec-22	22-Dec-22	-78	
ilevated PTI	60	01-Apr-22 A	01-Mar-23	22-Oct-22	22-Oct-22	-104	
PRE-700 Prepare, Submit, & Approval for Modification Works at Existing Spur Line PTI	60	01-Apr-22 A	01-Mar-23	22-Oct-22	22-Oct-22	-104	
Double Deck Footbridge	50	11-Jul-22 A	03-May-23	07-Nov-22	06-Jan-23	-91	
PRE-515 Method Statement Prepare, Submit, & Approval for Double Deck Footbridge Bored Piling V	50 204	11-Jul-22 A 22-Jun-22 A	03-May-23 29-Aug-23	07-Nov-22 22-Jun-22	06-Jan-23 27-Aug-26	-91 426	
odification Works at MTR Lok Ma Chau Station	204	22-Jun-22 A	29-Aug-23	22-Jun-22	27-Aug-26	426	
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LMC-120         Submission of FSI 314           LMC-125         Safety Induction Training (RSI) and CP (NT) Training by the Employer	69 96	02-Mar-23 22-Jun-22 A	27-May-23* 28-Jun-23*	01-Dec-22 22-Jun-22	27-Feb-23 15-Oct-22	-71 -205	
LMC-135 Training for Fire Marshal by Employer	53	24-Aug-22 A	28-Jun-23*	09-Oct-22	30-Nov-22	-210	· · · · · · · · · · · · · · · · · · ·
PMI and CE	82	27-Jan-23 A	07-Apr-23	29-Sep-22	27-Aug-26	1237	
CE 041 (PMI 045 and PMI 052) - Temporary Diversion of Lighting Cables behind Ground Mezzanine Le	' 1	15-Feb-23 A	15-Feb-23 A	11-Nov-23	11-Nov-23		· · · · · · · · · · · · · · · · · · ·
CE041-210 CE 041 PM Review and Approval	1	15-Feb-23 A	15-Feb-23 A	11-Nov-23	11-Nov-23		·
PMI 055 - FAD Insulation Replacement for L1 AHU-01018 inside ECS Plantroom M6	21	06-Feb-23 A	26-Feb-23 A	27-Aug-26	27-Aug-26		
PMI055-200 PMI 055 Issued and Subletting Procedure	21	06-Feb-23 A	26-Feb-23 A	27-Aug-26	27-Aug-26		
PMI055-210         PMI 055 PM Review and Approval           PMI 056 - Trial Package of Load Cell System for Scaffold Platform	1 38	26-Feb-23 A 27-Jan-23 A	26-Feb-23 A 05-Mar-23	27-Aug-26 29-Sep-22	27-Aug-26 03-Oct-22	-153	
PMI056-200 PMI 056 Issued and Subletting Procedure	38	27-Jan-23 A	05-Mar-23	29-Sep-22	03-Oct-22	-153	
PMI050-200 PMI 050 Issued and Subletting Plocedule PMI056-210 PMI 056 PM Review and Approval	1	05-Mar-23	05-Mar-23	03-Oct-22	03-Oct-22	-153	
PMI 057 - Diversion of VAC Trunking & Cables	76	02-Feb-23 A	07-Apr-23	14-Apr-23	21-May-23	44	i
PMI057-200 PMI 057 Issued and Subletting Procedure	34	02-Feb-23 A	24-Feb-23 A	14-Apr-23	14-Apr-23		
PMI057-210 PMI 057 PM Review and Approval	42	25-Feb-23 A	07-Apr-23	14-Apr-23	21-May-23	44	·····
ilte Works	405	10-Aug-22 A	22-Jul-23	05-Sep-22	28-Jan-23	-142	
LMC-250 LMC L1 - Erect Hoarding	254	10-Aug-22 A	21-Jun-23	05-Sep-22	23-Dec-22	-143	
LMC-260 LMC L2 - Erect Hoarding	405	10-Aug-22 A	22-Jul-23	06-Sep-22	28-Jan-23	-142	
X/F	40	16-Feb-23 A	29-May-23	04-Oct-22	11-Nov-23	65	
Strengthening Works	40	16-Feb-23 A	29-May-23	04-Oct-22	11-Nov-23	65	
LMC-148 CE 041 (PMI 052) Temporary Diversion of lighting cable behind ground mezzanine level fac LMC-149 PMI 056 Trial package of load cell system for scaffold platform	24 <sup>2</sup>	16-Feb-23 A 06-Mar-23	23-Feb-23 A 29-Mar-23	11-Nov-23 04-Oct-22	11-Nov-23 27-Oct-22	-153	
LMC-150 LMC G/F - Erect working Platform	6	30-Mar-23	06-Apr-23	28-Oct-22	03-Nov-22	-126	
LMC-154 LMC G/F - 1st Batch Structural Steel Materials Delivery	1	11-Apr-23	11-Apr-23	04-Nov-22	04-Nov-22	-126	
LMC-155     LMC G/F - Strengthening with Facade A&A Works for Opening	17	12-Apr-23	02-May-23	05-Nov-22	24-Nov-22	-126	
LMC-159 CE 027 (PMI 007, 039) G/F Revised Drawings for Lok Ma Chau Station Structural Modifica	3	22-May-23*	24-May-23	25-Nov-22	27-Nov-22	-178	
LMC-160 LMC G/F - Erect Propping	3	25-May-23	29-May-23	28-Nov-22	01-Dec-22	-142	
evel 1 + 1M (Mezzanine)	223	28-Nov-22 A	29-Aug-23	14-Sep-22	24-May-23	-80	
Strengthening Works	202	28-Nov-22 A	04-Aug-23	14-Sep-22	09-Feb-23	-143	
LMC-275 LMC L1 - Diversion of leaky cables (by MTR contractor)	83	29-Dec-22 A	12-Apr-23	25-Oct-22	01-Dec-22	-104	
LMC-276         LMC L1 - Structural Opening for E&M Diversion (2 nos.)           LMC-277         LMC L1 - E&M Diversion near wall opening (CHWP - hole openings required)	6	13-Mar-23*	18-Mar-23	24-Nov-22	01-Dec-22	-87	
LMC-280 LMC L1 - Removal works for Louvres	12	07-Jun-23	20-Jun-23	09-Dec-22	23-Dec-22	-142	
LMC-285     LMC L1 - 1st Batch Structural Steel Materials Delivery	1	11-Apr-23	11-Apr-23	22-Dec-22	23-Dec-22	-84	
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LMC-278LMC L1 - E&M Diversion nearLMC-279LMC L1 - Erection of external sLMC-280LMC L1 - Removal works for L	wall opening (SWP, Lighting and Power Socket - hole openin acaffold and platform for materials delivery into station puvres	wall opening (SWP, Lighting and Power Socket - hole openin108scaffold and platform for materials delivery into station7puvres12Steel Materials Delivery1	wall opening (SWP, Lighting and Power Socket - hole openin10828-Nov-22 Aacaffold and platform for materials delivery into station730-May-23puvres1207-Jun-23	wall opening (SWP, Lighting and Power Socket - hole openir10828-Nov-22 A13-Jun-23acaffold and platform for materials delivery into station730-May-2306-Jun-23ouvres1207-Jun-2320-Jun-23Steel Materials Delivery111-Apr-2311-Apr-23	wall opening (SWP, Lighting and Power Socket - hole openir10828-Nov-22 A13-Jun-2314-Sep-22acaffold and platform for materials delivery into station730-May-2306-Jun-2301-Dec-22ouvres1207-Jun-2320-Jun-2309-Dec-22Steel Materials Delivery111-Apr-2311-Apr-2322-Dec-22	wall opening (SWP, Lighting and Power Socket - hole openin10828-Nov-22 A13-Jun-2314-Sep-2223-Dec-22caffold and platform for materials delivery into station730-May-2306-Jun-2301-Dec-2209-Dec-22couvres1207-Jun-2320-Jun-2309-Dec-2223-Dec-22Steel Materials Delivery111-Apr-2311-Apr-2322-Dec-2223-Dec-22	wall opening (SWP, Lighting and Power Socket - hole openin       108       28-Nov-22 A       13-Jun-23       14-Sep-22       23-Dec-22       -136         ccaffold and platform for materials delivery into station       7       30-May-23       06-Jun-23       01-Dec-22       09-Dec-22       -142         puvres       12       07-Jun-23       20-Jun-23       09-Dec-22       23-Dec-22       -142         Steel Materials Delivery       1       11-Apr-23       11-Apr-23       22-Dec-22       23-Dec-22       -84

Critical Remaining Work

Paul Y. – Chun Wo – CRCC JV

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	con	ment from l	MTR and oth	hers on mate	rials and sh	oʻp drawings	submission f	or Strengther	hing works		1 1		1	1 1 1			1 1 1	
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	Pre	pare, Submi	it, & Approva	for Modificat	tion Works	at Existing S	pur Line PTI	   	 				   !				ı ! !	· · · · · · · · · · · · · · · · · · ·
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		PMI 056	Issued and	Subletting Pr	rocedure				· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·					
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			4	+			PMI 057 PM	Review and	Approval				•	   	1i		•	
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							- +		ion of leaky c	apies (by M	K contracto	or;)	; ;	 				
				LMC L1 - S	tructural O	pening for E	M Diversion (	≥ nos.)	, , , , , , , , , , , , , , , , , , ,								<u> </u>	
	<u></u>		<u> </u>	¦	<u></u>		LM	L1 - E&M I ہے	viversion nea	wall openin	ig (CHWP -	nole opening	s required)		<u> </u> ;	<u></u>		
		L	·	±				·	J				±		4	<u> </u>		L1 - E&M Divers
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						-	main and ID 177		20210				Three	Mont	h Rollin	ng Program		
rks	Pac	kage 1 -	- Contra	ct 3		I	roject ID : YL			סס		Date		Revisio		Cheo		Approved
		•					ayout : YL202 ate : 28-Eeb-2			IKĽ	28.1	-eb-23	MPR No.					
JIB	mm	E					ate : 28-Feb-2	5 / rage 2 of	4		20-1	00-20	טאררו ווייון.	10				
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		Dur					Float	2 19
	LMC L1 - Strengthening with Facade A&A Works for Wall Opening	36	23-Jun-23	04-Aug-23	23-Dec-22	09-Feb-23	-143	
-	Wall Demolition LMC L1 - Structural Opening for E&M Diversion (4 nos.)	162 8	13-Feb-23 A 20-Mar-23	29-Aug-23 28-Mar-23	22-Nov-22 01-Dec-22	24-May-23 10-Dec-22	-80 -87	
	LMC L1 - E&M diversion work for the existing block wall (CDP,conduit for lighting, Isolator - I	162	13-Feb-23 A	29-Aug-23	22-Nov-22	24-May-23	-80	·
	e Floor and Blockwall	3	29-Mar-23	31-Mar-23	10-Dec-22	14-Dec-22	-87	
	LMC L1 - Structural Opening for E&M Diversion (1 nos.)	3	29-Mar-23	31-Mar-23	10-Dec-22	14-Dec-22	-87	
evel 2 + 2M (M		81	28-Nov-22 A	17-Jul-23	13-Sep-22	12-Jul-23	-2	
HU Modificatio	In LMC L2 - Diversion of chilled water pipes for AHU-025	73 73	03-Jan-23 A 03-Jan-23 A	30-Mar-23 30-Mar-23	14-Nov-22 14-Nov-22	14-Dec-22 14-Dec-22	-86 -86	
Strengthening W		169	28-Nov-22 A	17-Jul-23	13-Sep-22	28-Jan-23	-137	
	LMC L1 - Diversion of leaky cables (by MTR contractor)	94	29-Dec-22 A	26-Jun-23	17-Sep-22	10-Jan-23	-134	·
LMC-245	LMC L1 - Structural Opening for E&M Diversion (2 nos.)	5	01-Apr-23	11-Apr-23	14-Dec-22	20-Dec-22	-87	
	LMC L2 - E&M Diversion near wall opening (PCU-186 & PCU-187 - hole openings required	29	22-May-23	26-Jun-23	20-Dec-22	28-Jan-23	-120	
	LMC L2 - E&M Diversion near wall opening (EXF & TEF Air ducts & Lighting - hole opening:	135	28-Nov-22 A	17-Jul-23	13-Sep-22	28-Jan-23	-137	
	Wall Demolition LMC L2 - Structural Opening for E&M Diversion (2 nos.)	6 5	12-Apr-23 12-Apr-23	27-Apr-23 17-Apr-23	29-Apr-23 29-Apr-23	24-May-23 05-May-23	10 15	
	PMI 032 Structural Opening for E&M Diversion (2 nos.)	8	17-Apr-23	24-Apr-23	05-May-23	12-May-23	15	·
	PMI 057 Structual Opening for E&M Diversion (1 nos.)	3	25-Apr-23	27-Apr-23	22-May-23	24-May-23	27	
lew Mezzanine	e Floor and Blockwall	12	27-Feb-23 A	11-Mar-23	30-Jun-23	12-Jul-23	97	
LMC-470	LMC L2 - E&M Diversion (lighting - hole openings not required)	12	27-Feb-23 A	11-Mar-23	30-Jun-23	12-Jul-23	97	
evated Public	c Transport Interchange (EPTI)	131	05-Sep-22 A	16-Aug-23	16-Aug-22	12-May-23	-37	
re-works		50	04-Feb-23 A	17-Mar-23	16-Aug-22	04-Apr-23	17	
MI and CE		50	04-Feb-23 A	17-Mar-23	16-Aug-22	04-Apr-23	17	
	114 and PMI 037) - Diversion of Watermains at Emergency Evacuation Assembly Area of	42	04-Feb-23 A	17-Mar-23	16-Aug-22	01-Sep-22	-197	
	CE 034 PM Review and Approval E 036 (PMI 041 and PMI 046) - Drainage Diversion at EPTI B10	42	04-Feb-23 A 27-Feb-23 A	17-Mar-23 15-Mar-23	16-Aug-22 19-Jan-23	01-Sep-22 02-Feb-23	-197 -41	
	CE 035 and CE 036 PM Review and Approval	17	27-Feb-23 A	15-Mar-23	19-Jan-23	02-Feb-23	-41	
	151) - Temporary Cable Duct for PTI Road Lighting Reinstatement	1	05-Feb-23 A	05-Feb-23 A	04-Apr-23	04-Apr-23		
	CE 038 PM Review and Approval	1	05-Feb-23 A	05-Feb-23 A	04-Apr-23	04-Apr-23		
PTI - TTA Stag	ge 1	157	05-Sep-22 A	17-Mar-23	14-Dec-22	28-Feb-23	-15	
PTI - Area A (G		18	05-Sep-22 A	03-Mar-23	14-Dec-22	15-Dec-22	-60	
	Area A (Grid A-B, TTA Stage 1) Pre-dilling (9nrs @ 4d/nr/rig, 2 rigs)	18	05-Sep-22 A	03-Mar-23	14-Dec-22	15-Dec-22	-60	
EPTI - Area B (G EPTI-4830		15 15	01-Mar-23 01-Mar-23	17-Mar-23 17-Mar-23	11-Feb-23 11-Feb-23	28-Feb-23 28-Feb-23	-15 -15	
PTI - TTA Stag	Area B (Grid C-F, TTA Stage 1) Bored Pile (F5) 1nr @ ave 15d/nr/rig, 1 rig	61	08-Feb-23 A	17-iviai-23	02-Sep-22	25-Mar-23	-13	
	Stage 2 UU Diversion for Watermain (WSD) (Gric C 6-10, A 8-9, B8)	46	21-Feb-23 A	19-Apr-23	14-Nov-22	29-Dec-22	-86	
	Stage 2 UU Diversion for Watermain (MTR) (D8, E 8-9)	46	02-Mar-23	28-Apr-23	24-Oct-22	15-Dec-22	-104	
	Stage 2 UU Diversion for Drainage (Grid A10, B10)	41	02-Mar-23	22-Apr-23	10-Nov-22	29-Dec-22	-89	
PTI - Area A (G	arid A-C)	61	08-Feb-23 A	14-Jul-23	31-Dec-22	25-Mar-23	-43	1
	Area A (Grid A-C, TTA Stage 2) Bored Pile (A1) 1nr@ ave 15d/nr/rig, 1 rig (after EPTI-4845)	15	04-Mar-23	21-Mar-23	09-Jan-23	30-Jan-23	-43	
	Area A (Grid A-C, TTA Stage 2) Bored Pile (A3) 1nr@ ave 15d/nr/rig, 1 rig	8	22-Feb-23 A	02-Mar-23 A	17-Jan-23	17-Jan-23		· · · · · · · · · · · · · · · · · · ·
	Area A (Grid A-C, TTA Stage 2) Bored Pile (A5) 1nr@ ave 15d/nr/rig, 1 rig	15	11-Feb-23 A	28-Feb-23 A	18-Jan-23	18-Jan-23		
	Area A (Grid A-C, TTA Stage 2) Bored Pile (A2) 1nr@ ave 15d/nr/rig, 1 rig Area A (Grid A-C, TTA Stage 2) Bored Pile (A4) 1nr@ ave 15d/nr/rig, 1 rig	15 15	13-Mar-23 21-Mar-23	29-Mar-23 11-Apr-23	18-Jan-23 31-Jan-23	08-Feb-23 16-Feb-23	-42 -42	
	Area A (Grid A-C, TTA Stage 2) Bored Pile (B1) 1nr@ ave 15d/nr/rig, 1 rig (Affected by CE0	15	02-May-23	18-May-23	31-Dec-22	18-Jan-23	-94	
	Area A (Grid A-C, TTA Stage 2) Bored Pile (B3) 1nr@ ave 15d/nr/rig, 1 rig (Affected by CE0	15	10-May-23	27-May-23	10-Jan-23	31-Jan-23	-94	
EPTI-4874	Area A (Grid A-C, TTA Stage 2) Bored Pile (B5) 1nr@ ave 15d/nr/rig, 1 rig (Affected by CE0	15	18-May-23	05-Jun-23	18-Jan-23	08-Feb-23	-94	1
	Area A (Grid A-C, TTA Stage 2) Bored Pile (B2) 1nr@ ave 15d/nr/rig, 1 rig (Affected by CE0	10	03-Mar-23 A	07-Jun-23	31-Jan-23	10-Feb-23	-94	
	Area A (Grid A-C, TTA Stage 2) Bored Pile (B4) 1nr@ ave 15d/nr/rig, 1 rig (Affected by CE0	12	25-Feb-23 A	10-Mar-23 A	08-Feb-23	08-Feb-23		
	Area A (Grid A-C, TTA Stage 2) Bored Pile (B6) 1nr@ ave 15d/nr/rig, 1 rig Area A (Grid A-C, TTA Stage 2) Bored Pile (B7) 1nr@ ave 15d/nr/rig, 1 rig	15	01-Jun-23	17-Jun-23	13-Feb-23 21-Feb-23	01-Mar-23	-87	
	CE030 (PMI 042) Watermain Diversion (60 cd EOT)	15 60	09-Jun-23 01-Mar-23	27-Jun-23 29-Apr-23	21-Feb-23 31-Dec-22	09-Mar-23 28-Feb-23	-87 -60	
	Area A (Grid A-C, TTA Stage 2) Bored Pile (B8) 1nr@ ave 15d/nr/rig, 1 rig (Affected by CE0	15	17-Jun-23	06-Jul-23	01-Mar-23	17-Mar-23	-87	
	Area A (Grid A-C, TTA Stage 2) Bored Pile (A8) 1nr@ ave 15d/nr/rig, 1 rig	13	08-Feb-23 A	22-Feb-23 A	09-Mar-23	09-Mar-23		
	Area A (Grid A-C, TTA Stage 2) Bored Pile (A7) 1nr@ ave 15d/nr/rig, 1 rig	15	27-Jun-23	14-Jul-23	09-Mar-23	25-Mar-23	-87	
PTI - Area B (G		105	18-Mar-23	30-Jun-23	02-Sep-22	15-Dec-22	-197	
	CE 034 Watermain Diversion (75cd EOT)	105	18-Mar-23	30-Jun-23	02-Sep-22	15-Dec-22	-197	
PTI - TTA Stag		75	06-Feb-23 A	16-Aug-23	03-Feb-23	12-May-23	-37	
PTI - TTA Stage Stage 3a - Area		75 75	06-Feb-23 A 06-Feb-23 A	16-Aug-23 16-Aug-23	03-Feb-23 03-Feb-23	12-May-23 12-May-23	-37 -37	
Area A - Bored		98	06-Feb-23 A	14-May-23	03-Feb-23	03-May-23	-37	
	CE 038 (PMI 051) CLP Diversion	13	06-Feb-23 A	18-Feb-23 A	04-Apr-23	04-Apr-23		
	CE024 (PMI 041, 046) Drainage Diversion (60cd EOT)	60	16-Mar-23	14-May-23	03-Feb-23	03-Apr-23	-41	
EPTI-4899	CE022 (PMI 016, 034) Watermain Diversion	60	21-Feb-23 A	21-Apr-23	13-Mar-23	03-May-23	12	
Area A - ELS		68	27-May-23	16-Aug-23	17-Feb-23	12-May-23	-79	
	Area A (Grid A-C, TTA Stage 3) (A1-A5) ELS	40	27-May-23	14-Jul-23	17-Feb-23	04-Apr-23	-79	
	Area A (Grid A-C, TTA Stage 3) (B1-B5) ELS	40	30-Jun-23	16-Aug-23	22-Mar-23	12-May-23	-79	
uble Deck Fo	bolondge	96	16-Dec-22 A	19-Aug-23	30-Sep-22	22-Mar-23	-59	
reparation		120	16-Dec-22 A 16-Dec-22 A	14-Apr-23	01-Nov-22	15-Dec-22	-120	
MI and CE PMI 044 - Desi	ign Updates of Double-deck Footbridge	120 120	16-Dec-22 A 16-Dec-22 A	14-Apr-23 14-Apr-23	01-Nov-22 01-Nov-22	15-Dec-22 15-Dec-22	-120 -120	
	PMI 044 Issued and Design Changes (89cd)	90	16-Dec-22 A	15-Mar-23	01-Nov-22	15-Nov-22	-120	·
	PMI 044 Tender Recommendation (31cd)	30	16-Mar-23	14-Apr-23	16-Nov-22	15-Dec-22	-120	
DF - Stage 2		67	01-Mar-23	19-Aug-23	30-Sep-22	22-Mar-23	-59	
DF - Stage 2 P		67	01-Mar-23	19-Aug-23	30-Sep-22	22-Mar-23	-59	
	Stage 2 - 1st TTA Traffic Diversion	1	01-Mar-23	01-Mar-23	30-Sep-22	30-Sep-22	-121	
	Stage 2 - Underground Utilities (Drainage) Diversion & Road Lighting Diversion (Stage 2)	56	02-Mar-23	11-May-23	03-Oct-22	07-Dec-22	-121	
	CE 024 (PMI 019, 036) Drainage Diversion (60cd EOT) Stage 2 - Piling Works for BP1 (1 nr @ approx 45m, 15d/pile/rig, 1rig) (Affected by CE024)	60	01-Mar-23 20-May-23	29-Apr-23 07-Jun-23	17-Oct-22 16-Dec-22	15-Dec-22 05-Jan-23	-135 -121	
DDF-1055	Stage 2 - Priling Works for BP1 (1 nr @ approx 45m, 150/pile/ng, 1ng) (Affected by CEU24) Stage 2 - 2nd TTA Traffic Diversion	15	20-May-23 08-Jun-23	07-Jun-23 08-Jun-23	06-Jan-23	05-Jan-23 06-Jan-23	-121	
		1 I I	00-0011-20	00-0011-20	00-0011-20	00-0411-20	-141	1 1

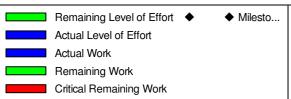
Paul Y. – Chun Wo – CRCC JV

Critical Remaining Work

	March 29	April 30		May 31	June 32			
	26 05 12 19 26	02 09 16	23 30	07 14 21	28 04 11 18 25			
		1 - Structural Opening for E&M Diver	rsion (4 nos.)					
+								
		LMC L1 - Structural Opening for E&M	Diversion (1 nos.)					
+		MC L2 - Diversion of chilled water pipe	es for AHU-025					
÷			· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·				
 		LMC L1 - Structura	al Opening for E&M Diversion	n (2 nos.)				
1								
+			2 - Structural Opening for E&	M Diversion (2 nos.)				
 				ening for E&M Diversion (2 nos.) al Opening for E&M Diversion (1 nos.)				
	LMC L2 - E&M Diversion (lighting -	hole openings not required)						
	CE 034 PM Review an	Approval						
+	CE 035 and CE 036 PM R							
+								
T	📕 Area A (Grid A-B, TTA Stage 1) Pre-driling (9nrs (	ad/nr/rin 2 rins)						
+								
 	Area B (Grid C-F, TTA S	tage 1) Bored Pile (F5) 1nr @ ave 15d/	/hr/rig, 1 rig					
1	······································	Sta		rmain (WSD) (Gric C 6-10, A 8-9, B8) version for Watermain (MTR) (D8, E 8-9)				
÷			Stage 2 UU Diversion for					
	Area A (Grid A-C	, TTA Stage 2)Bored Pile (A1) 1nr@ a	ave 15d/nr/rig 1 rig (after ₽T	TI-484 5)				
÷								
	A	ea A (Grid A-C, TTA Stage 2) Bored Pile Area A (Grid A-C	e (A2) 1n r@ ave 15d/nr/rig, TTA Stage 2) Bored Pile (A4	1 rig ) 1 n r@ave 15d/nr/rig 1 rig				
+		,, ,,, ,,, ,, ,, ,, ,, ,, ,, ,, ,,		Area A (Grid A <sub>t</sub> C, T	TA Stage 2) Bored Pile (B1) 1 nr @ ave 15d/nr/rig			
					a A (Grid A-C, TTA Stage 2) Bored Pile (B3) 1hr ( Area A (Grid A-C, TTA Stage 2) Bore			
		- J	J		Area A (Grid A-C, TTA Stage 2)			
					Area A (Grid A			
+	······································		СЕ030 (РМІ (	042) Watermain Diversion (60 cd EQT)				
				CE024 (PMI 041, 046) Dra	ainage Diversion (60cd EOT)			
+			CE022 (PMI 016, 034) Wate					
+								
+								
	PM 044 Issued and Desig		nder Recommendation (31cc	3)				
+	Stage 2 - 1st TTA Traffic Diversion			Stare 2 - Underground Utilities	(Drainage) Diversion & Road Lighting Diversion (			
+ 	······································		CE 024 (PMI	019, 036) Drainage Diversion (60cd EO	T)			
					Stage 2 - Piling Works for BP1 ( Stage 2 - 2nd TTA Traffic Dive			
orks	Package 1 - Contract 3	Project ID : YLC3-UPD13-2			nth Rolling Programme			
	mme	Layout : YL202101 C3 02 M Date : 28-Feb-23 / Page 3 of		DateRevis28-Feb-23MPR No. 13	ion Checked Approved			

ctivity ID	Activity Name	Orig	Early Start	Early Finish	Late Start	Late Finish	Total	uary				March				A	pril				Мау				June	
		Dur					Float	3				29					30				31				32	
								2	19	26 0	)5	12	19	26	02	09	16	23	30	07	14	21	28	04	11	18
DDF-1065	Stage 2 - Piling Works for BP8-11 (4 nrs @ approx 45m, 15d/pile/rig, 1rig)	60	09-Jun-23	19-Aug-23	07-Jan-23	22-Mar-23	-121								- - -									1		
Portion 3		90	06-Apr-23	27-Jul-23	07-Dec-24	29-Mar-25	496			1						1				·			1	1		
Portion 3 W	orks	90	06-Apr-23	27-Jul-23	07-Dec-24	29-Mar-25	496								 , ,					!						
P3-105	Design, Submission and Approval	90	06-Apr-23	27-Jul-23	07-Dec-24	29-Mar-25	496																			-
Portion 4		810	01-Mar-23	24-Nov-25	01-Mar-22	23-Nov-24	-295				1				 - - -											
Portion 4 W	orks	810	01-Mar-23	24-Nov-25	01-Mar-22	23-Nov-24	-295								/ / /					·						     
P4-105	Preparation Works	30	01-Mar-23	04-Apr-23	01-Mar-22	04-Apr-22	-295								Prep	aration Work	\$			·	· J			·		
P4-110	Upkeeping and Maintenance of Completed Works at Portion 4	780	06-Apr-23	24-Nov-25	06-Apr-22	23-Nov-24	-295																			





Project ID : YLC3-UPD13-230318		Three Month Rollin	ig Programme	
	Date	Revision	Checked	Approved
Date : 28-Feb-23 / Page 4 of 4	28-Feb-23	MPR No. 13		
		ł		
	Project ID : YLC3-UPD13-230318 Layout : YL202101 C3 02 MPR App B-3MRP Date : 28-Feb-23 / Page 4 of 4	Layout : YL202101 C3 02 MPR App B-3MRP	Layout : YL202101 C3 02 MPR App B-3MRP	Layout : YL202101 C3 02 MPR App B-3MRP   Date   Revision   Checked

APPENDIX B ACTION AND LIMIT LEVELS

#### **Appendix B - Action and Limit Levels**

Location	Action Level, μg/m <sup>3</sup>	Limit Level, µg/m <sup>3</sup>
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 <sup>3</sup>	Limit Level, µg/m <sup>3</sup>
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<sup>(4)</sup></u>	IS1: <u>6.8 or <math>4^{(4)}</math></u>
		IS2: <u>5.3 / NA<sup>(4)</sup></u>	IS2: <u>5.2 or <math>4^{(4)}</math></u>
DO (mg/L)	Depth average	IS4: <u>4.1 / NA<sup>(4)</sup></u>	IS4: <u>3.8 or 4<sup>(4)</sup></u>
		IS6: <u>5.9</u>	IS6: <u>5.8</u>
		BS1: <u>3.9 / NA<sup>(4)</sup></u>	BS1: <u>3.7 or 4<sup>(4)</sup></u>
		IS1: <u>27.7</u>	IS1: <u>29.9</u>
		IS2: <u>35.5</u>	IS2: <u>38.1</u>
Turbidity (NTU)	Donth avorage	IS4: <u>70.9</u>	IS4: <u>74.6</u>
Turblany (NTO)	Depth average	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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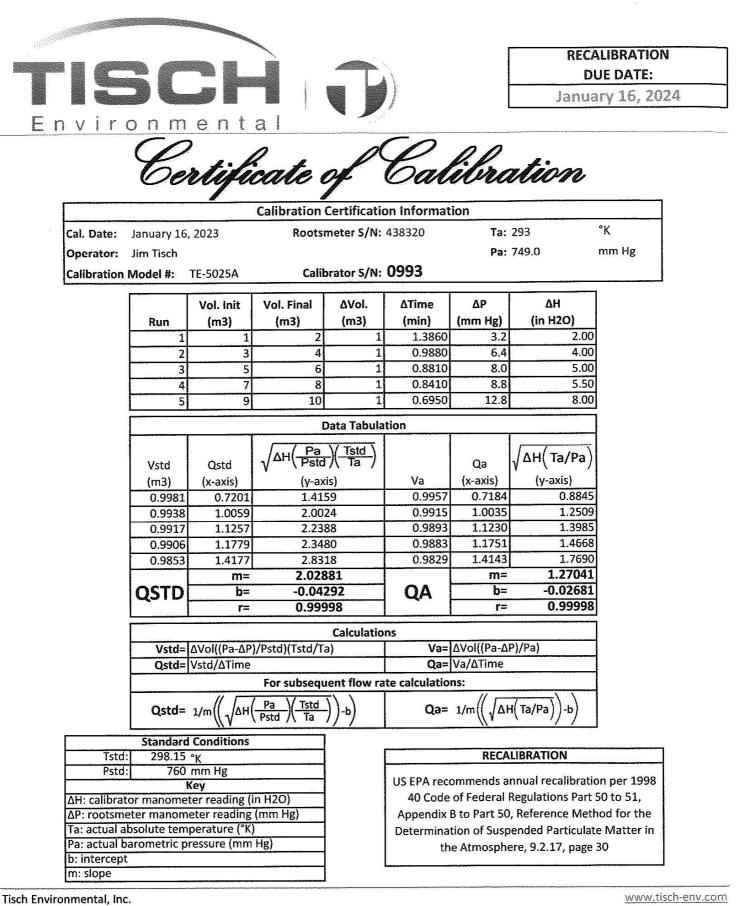
#### **High-Volume TSP Sampler** 5-POINT CALIBRATION DATA SHEET

						File No.	WMA21009/24/0	0012
Station	DMS-3 - Village Hou	se along Old Border R	oad			Operator:	HL	
Date:	1-Mar-23				Next	Due Date:	30-Apr-23	
Equipment No.:	WA-12-24					Serial No.	10576	
			Ambient (	ondition	· · · ·			
Temperat	ure, Ta (K)	297	Pressure, Pa			76	59	
Temperat		271	11035010,14	(mini ig)				
	· .		Drifice Transfer Sta	ndard Informat	ion		· · · · · ·	
Seri	al No.	0993	Slope, me	0.0574	Intercept,		-0.04292	
Last Calib	ration Date:	16-Jan-23			bc = [ΔH x (Pa/76			
Next Calib	oration Date:	16-Jan-24		Qstd = {[AH	x (Pa/760) x (298	/Ta)] <sup>1/2</sup> -bc	}/mc	
			Calibration of	TSP Sampler		····.		····· · ·
		Orf		101 Sampler		H	VS	
Calibration Point	∆H (orifice), in. of water		60) x (298/Ta)] <sup>1/2</sup>	Qstd (CFM) X - axis	ΔW (HVS), in. of water	1	a/760) x (298/Ta)] <sup>1/2</sup>	Y-axis
1	11.8		3.46	61.00	7.4		2.74	
2	10.2		3.22	56.77	6.8		2.63	
3	8.8	2.99	52.78	5.7		2.41		
4	6.9		2.65	46.82	4.6		2,16	
5	4.2		2.06	36.70	3.0	L	1.75	
Slope , mw = Correlation	cession of Y on X 0.0420 coefficient* = Coefficient < 0.990, o		9980 e.	Intercept, bw : 	0.2039			
		· . · ·	Set Point C	alculation				
From the TSP Fi	ield Calibration Curv	/e, take Ostd = 43 C						····
	sion Equation, the "							
U		-	$x \text{ Qstd} + bw = [\Delta W x]$	x (Pa/760) x (298	8/Ta)] <sup>1/2</sup>			
Therefo	ore, Set Point; W = (	$mw x Qstd + bw)^2$	x ( 760 / Pa ) x ( Ta /	298)=	3.97			
· ,								
Remarks:	<b>.</b>							
	127 MAN 1152 470 Ka du		ke	i film		Date: Date:	1/3/202 (5/ m23	23

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## High-Volume TSP Sampler 5-POINT CALIBRATION DATA SHEET

						File No.	WMA21009/07/	0012
Station	DMS-4A - Hong Kong	g Police Force, Lok M	a Chau Operation Base	at Horn Hill		Operator:		
Date:	1-Mar-23		_				30-Apr-23	
Equipment No.:	WA-12-07		•			Serial No.	1801	
			A	N			· · · · · · · · · · · · · · · · · · ·	
		204.7	Ambient (			770	· · ·	
remperati	ure, Ta (K)	294.7	Pressure, Pa	(mmfg)				
			Orifice Transfer Sta	ndard Informat	ion		· · · · · · · · · · · · · · · · · · ·	
Seria	il No.	0993	Slope, mc	0.0574	Intercept,	bc	-0.04292	
Last Calibi	ration Date:	16-Jan-23		me x Qstd + I	be = [ΔH x (Pa/70	60) x (298/T	a)] <sup>1/2</sup>	
Next Calib	ration Date:	16-Jan-24		Qstd = $\{[\Delta H]$	x (Pa/760) x (298	B/Ta)] <sup>1/2</sup> -bc]	} / me	·····
		• The Appendix		<u> </u>	· · · ·			
			Calibration of	TSP Sampler		· · · ·	70	
Calibration	ΔH (orifice),	Orf		Qstd (CFM)	ΔW (HVS), in.	<u>H</u>		
Point	in. of water	[∆H x (Pa/76	50) x (298/Ta)] <sup>1/2</sup>	X - axis	of water	[ΔW x (Pa/	/760) x (298/Ta)] <sup>1/2</sup>	Y-axis
1	12.6		3.59	63.31	7.9		2.85	
2	10.3		3.25	57.31	6.4		2.56	
3	8.0		2.86	50.60	5.3		2.33	
4	6.6		2.60	46.03	4,6		2.17	
5	3.8		1.97	35.11	2.8	ļ.,	1.69	
	(							
By Linear Regr Slope , mw =	ession of Y on X			Intercent by	0.3043			
	coefficient* ==	0.1	9985	intercept, but	0.3043			
	oefficient < 0.990, c							
· · · ·			Set Point C	alculation			· · · · · · · · · · · · · · · · · · ·	
From the TSP Fi	eld Calibration Curv	e, take Qstd = 43 C	FM					
From the Regress	sion Equation, the "Y	7" value according	to					
		mw	$\Delta Qstd + bw = [\Delta W]$	x (Pa/760) x (298	7/Ta)1/2			
				( (x u/ / 00) / (				
Therefo	re, Set Point; W = (	mw x Qstd + bw ) <sup>2</sup>	x ( 760 / Pa ) x ( Ta /	298)=	3.99			
L								
Remarks:								
· ·								
Conducted by:	LET MAN HER	Signature:	<i>h</i>	er//		Date:	1/3/202	3
Checked by:	to ka dun	Signature:		Kl~		Date:	C(3/1023	



TOLL FREE: (877)263-7610 FAX: (513)467-9009

145 South Miami Avenue

Village of Cleves, OH 45002



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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

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

Test Report No.:	37894A	
Date of Issue:	2023-03-06	
Date Received:	2023-03-03	
Date Tested:	2023-03-03	
Date Completed:	2023-03-06	
Next Due Date:	2023-05-05	
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)	1.140
*****	*****

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

**PATRICK TSE** General Manager

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

Dust Meter	Dust Meter	High Volume Sampler		
Equipment No.:	WA-01-02	WA-12-09		
Model No. :	AEROCET-831	TE-5170		
Serial No.	X23808 2203			
Calibration Date:	3-Mar-23 3-Mar-23			
Location:	Wellab Office (Calibration Room)			

	Calibration	of 1 hr TSP		
	Dust Meter	HVS		
Calibration Point	Mass Concentration (µg/m <sup>3</sup> )	Mass concentration (µg/m <sup>3</sup> )		
	X-axis	Y-axis		
1	33	40		
2	45	55		
3	63 72			
4	76 86			
5	90	97		
Average	61.5	70.1		
By Linear Regression ( Slope , mw =	of Y on X 0.9987	Intercept, bw = 8.6787		
Correlation coefficie	nt* = 0.9975			

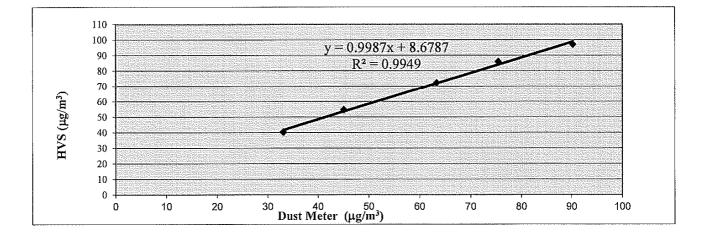
\*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Fac	etor
Particaulate Concentration by High Volume Sampler (µg/m <sup>3</sup> )	70.1
Particaulate Concentration by Dust Meter (µg/m <sup>3</sup> )	61.5
Measureing time, (min)	60

Set Correlation Factor, SCF

SCF = [ K=High Volume Sampler / Dust Meter, (µg/m<sup>3</sup>) ]

1.140



QC Reviewer:	LAR MINI	MEr	Signature:	hei	Date:	4/3/225
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## WELLABE

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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<sup>|</sup>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 <sup>3</sup> )	Mass concentration (μg/m <sup>3</sup> )
	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	

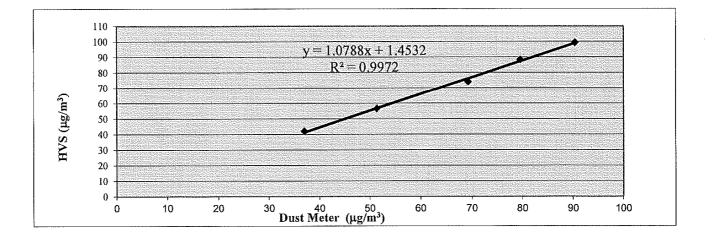
\*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Factor	
Concentration by High Volume Sampler (µg/m <sup>3</sup> ) 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, ( $\mu g/m^3$ ) |

1.101



QC Reviewer:	161	MAN	HEV Signature:	kei	Date:	6 (	1 ( 2023
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# TEST REPORTAPPLICANT:Wellab Limited<br/>(EM&A Department)<br/>Room 1808, Technology Park,<br/>18 On Lai Street,<br/>Shatin, NT, Hong KongTest<br/>Date<br/>Date<br/>Date

-	
Test Report No.:	37894B
Date of Issue:	2023-03-06
Date Received:	2023-03-03
Date Tested:	2023-03-03
Date Completed:	2023-03-06
Next Due Date:	2023-05-05
Page:	1 of 1

ATTN:

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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.

**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	
******		

**PÁTRICK 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:	3-Mar-23	3-Mar-23	
Location:	Wellab Office (Calibration Room)		

Calibration of 1 hr TSP			
	Dust Meter		HVS
Calibration Point	Mass Concentration (µg/m <sup>3</sup> )	N	Aass concentration (µg/m <sup>3</sup> )
	X-axis		Y-axis
1	36		40
2	50		55
3	63		72
4	79		86
5	90		97
Average	63.6		70.1
By Linear Regression			
Slope, mw =	1.0499	Intercept, bw =	3.2835
Correlation coefficie	nt* =0.9976		

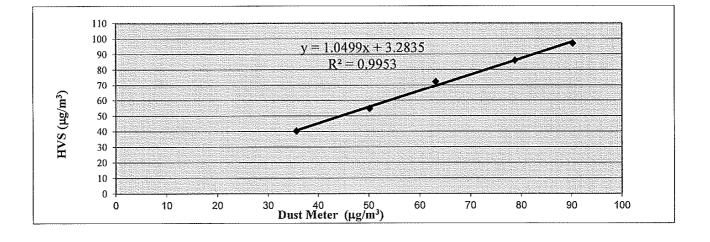
\*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Fa	ctor
Particaulate Concentration by High Volume Sampler (µg/m <sup>3</sup> )	70.1
Particaulate Concentration by Dust Meter (µg/m <sup>3</sup> )	63.6
Measureing time, (min)	60

Set Correlation Factor, SCF

SCF = [ K=High Volume Sampler / Dust Meter, (µg/m<sup>3</sup>) ]

1.102



QC Reviewer:	LTF	MIN	Uzz	Signature:	hei	Date:	4/3/2023
							•

## WELLABET

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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 <sup>3</sup> )	Mass concentration (µg/m <sup>3</sup> )	
	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>	

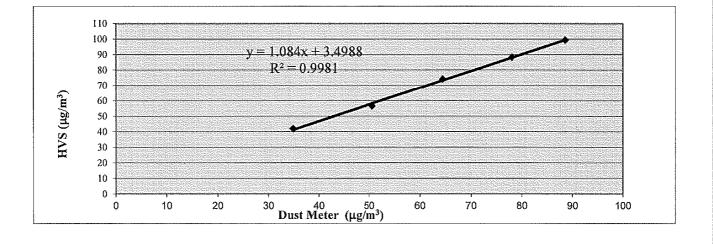
\*If Correlation Coefficient < 0.90, check and recalibrate.

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

Set Correlation Factor, SCF

SCF = [K=High Volume Sampler / Dust Meter, (µg/m<sup>3</sup>)]

1.139



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

## WELLABET

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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.:	37894C
Date of Issue:	2023-03-06
Date Received:	2023-03-03
Date Tested:	2023-03-03
Date Completed:	2023-03-06
Next Due Date:	2023-05-05
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.

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)	1.154
	*******

**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:	3-Mar-23	3-Mar-23	
Location:	Wellab Office (Calibration Room)		

	Calibratio	n of 1 hr TSP	
	Dust Meter		HVS
Calibration Point	Mass Concentration (µg/m <sup>3</sup> )	M	lass concentration (μg/m <sup>3</sup> )
	X-axis		Y-axis
1	31		40
2	43		55
3	62		72
4	79		86
5	89		97
Average	60.7		70.1
By Linear Regression Slope , mw = Correlation coefficie	0.9461	Intercept, bw =	12.6532

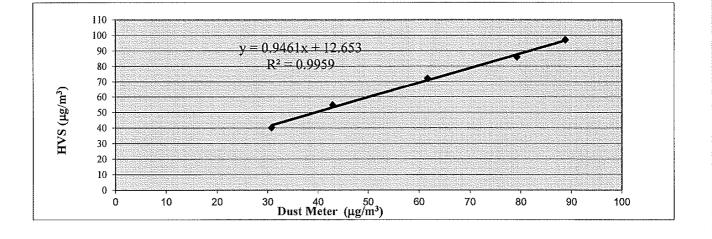
\*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Fa	ctor
Particaulate Concentration by High Volume Sampler (µg/m <sup>3</sup> )	70.1
Particaulate Concentration by Dust Meter (µg/m <sup>3</sup> )	60.7
Measureing time, (min)	60

Set Correlation Factor, SCF

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

1.154



QC Reviewer:	LEF	MM	Her	Signature:	hei	Date:	4/3/2023
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## WELLAB 歴力 consulting . testing . research

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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.:	37858
Date of Issue:	2023-02-27
Date Received:	2023-02-25
Date Tested:	2023-02-25
Date Completed:	2023-02-27
Next Due Date:	2023-04-26
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)	1.109
*****	

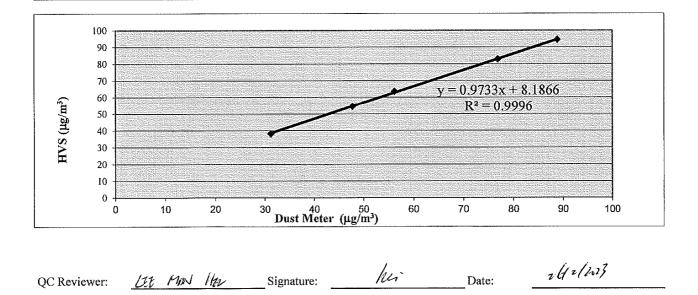
PATRICK TSE General Manager

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:	25-Feb-23	25-Feb-23	
Location:	Wellab Office (Calibration Room)		

	Calibra	tion of 1 hr TSP
	Dust Meter	HVS
Calibration Point	Mass Concentration (µg/m	<sup>3</sup> ) Mass concentration ( $\mu$ g/m <sup>3</sup> )
	X-axis	Y-axis
1	31	38
2	48	55
3	56	64
4	77	83
5	89	95
Average	60.2	66.8
By Linear Regression (	of Y on X	
Slope , mw =	0.9733	Intercept, bw = <u>8.1866</u>
Correlation coefficie	nt* = 0.9998	

\*If Correlation Coefficient < 0.90, check and recalibrate.

56.8
50.2
60



## 

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

L.	
Test Report No.:	37858A
Date of Issue:	2023-02-27
Date Received:	2023-02-25
Date Tested:	2023-02-25
Date Completed:	2023-02-27
Next Due Date:	2023-04-26
Page:	1 of 1

ATTN:

#### Ms. Meiling Tang

Item for Calibration:	
Description	: Dust Monitor
Manufacturer	: Met One Instruments
Model No.	: AEROCET-831
Serial No.	: X24477
Flow rate	: 0.1 cfm
Zero Count Test	: 0 count per 1 minute
Equipment No.	: WA-01-06
Test Conditions:	
Room Temperature	: 17-22 degree Celsius
Relative Humidity	: 40-70%

#### Test Specifications & Methodology:

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

**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)	1.136

\*\*\*\*\*\*\*

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

PATRICK TSE General Manager

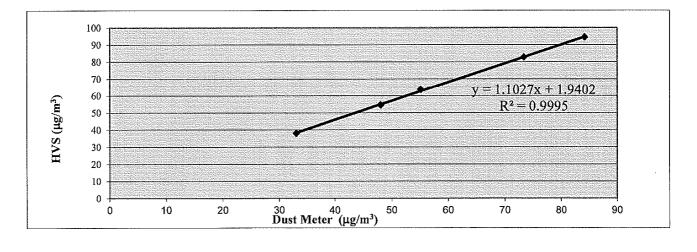
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Dust Meter	Dust Meter	High Volume Sampler	
Equipment No.:	WA-01-06	WA-12-09	
Model No. :	AEROCET-831	TE-5170	
Serial No.	X24477	2203	
Calibration Date:	25-Feb-23	25-Feb-23	
Location:	Wellab Office (Calibration Room)		

Calibration of 1 hr TSP				
	Dust Meter	HVS		
Calibration Point	Mass Concentration (µg/m <sup>3</sup> )	Mass concentratio	n (μg/m³)	
	X-axis	Y-axis		
1	33	38		
2	48	48 55		
3	55	64		
4	73	83		
5	84	95		
Average	58.8	66.8		
By Linear Regression of Slope , mw = Correlation coefficie	1.1027	Intercept, bw = <u>1.9402</u>		

\*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation F	
Particaulate Concentration by High Volume Sampler (µg/m <sup>3</sup> )	66.8
Particaulate Concentration by Dust Meter (µg/m <sup>3</sup> )	58.8
Measureing time, (min)	60
Set Correlation Factor , SCF SCF = [ K=High Volume Sampler / Dust Meter, (μg/m³) ]	1.136



QC Reviewer:	LEE MON HER	Signature:	hei	Date:	26(2/2023
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**APPLICANT:** 

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## TEST REPORT Wellab Limited (EM&A Department)

Room 1808, Technology Park, 18 On Lai Street, Shatin, NT, Hong Kong

Test Report No.:	37858D
Date of Issue:	2023-02-27
Date Received:	2023-02-25
Date Tested:	2023-02-25
Date Completed:	2023-02-27
Next Due Date:	2023-04-26
Page:	1 of 1

ATTN: Ms

#### 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) 1.099

\*\*\*\*\*\*\*\*\*\*\*

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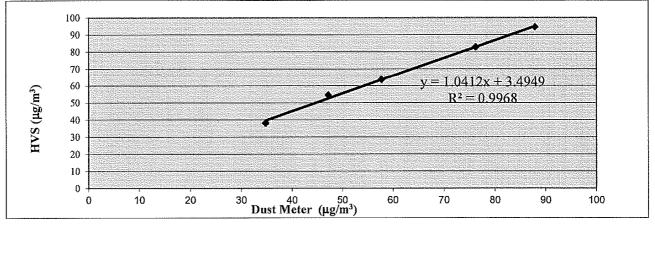
PATRICK TSE General Manager

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:	25-Feb-23	25-Feb-23	
Location:	Wellab Office (Calibration Room)		

Calibration of 1 hr TSP				
	Dust Meter		HVS	
Calibration Point	Mass Concentration (µg/m <sup>3</sup> )	N	Aass concentration (µg/m <sup>3</sup> )	
	X-axis		Y-axis	
1	35		38	
2	47	55		
3	58	64		
4	76	83		
5	88	95		
Average	60.8		66.8	
By Linear Regression of Slope , mw = Correlation coefficie	1.0412	Intercept, bw =	3.4949	

\*If Correlation Coefficient < 0.90, check and recalibrate.

Set Correlation Fi Particaulate Concentration by High Volume Sampler (μg/m <sup>3</sup> )	66.8	naryaan valjarg
Particaulate Concentration by Dust Meter (µg/m <sup>3</sup> )	60.8	
Measureing time, (min)	60	
Set Correlation Factor , SCF SCF = [ K=High Volume Sampler / Dust Meter, (μg/m³) ]	1.099	



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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.:	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

WELLAB 避力 consulting . testing . research		Te	New Territories, Hong Kong Tel: 2898 7388 Fax: 2898 707 Website : www.wellab.com.h	
	TEST REPO	RT		
<b>APPLICANT:</b>	Wellab Limited	Test Report No.:	37894A	
	(EM&A Department)	Date of Issue:	2023-03-13	
	Room 1808, Technology Park,	Date Received:	2023-03-10	
	18 On Lai Street,	Date Tested:	2023-03-10	
	Shatin, NT, Hong Kong	Date Completed:	2023-03-13	
		Next Due Date:	2024-03-12	

1 ODU LEOPOLO LION	010/111
Date of Issue:	2023-03-13
Date Received:	2023-03-10
Date Tested:	2023-03-10
Date Completed:	2023-03-13
Next Due Date:	2024-03-12
Page:	1 of 1

1 of 1

WELLAB LIMITED

Room 1714, Technology Park 18 On Lai Street, Shatin

ATTN: Ms. Meiling Tang

#### **Certificate of Calibration**

: BSWA : BSWA 308

: 580013

: WN-01-09

#### Item for calibration:

Description Manufacturer Model No. Serial No. Equipment No.

**Test conditions:** 

Room Temperature Relative Humidity

: 17-22 degree Celsius : 40-70%

: Sound Level Meter

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

37894B

2023-03-13

2023-03-10

2023-03-10

2023-03-13

2024-03-12 1 of 1

#### Test Report No.: **APPLICANT:** Wellab Limited Date of Issue: (EM&A Department) Room 1808, Technology Park, Date Received: 18 On Lai Street, Date Tested: Shatin, NT, Hong Kong Date Completed: Next Due Date: Page: ATTN: Ms. Meiling Tang **Certificate of Calibration** Item for calibration: Description : Sound Level Meter Manufacturer : BSWA Model No. : BSWA 308 : 580017 Serial No.

**TEST REPORT** 

**Test conditions:** 

Room Temperature Relative Humidity

Equipment No.

: 17-22 degree Celsius : 40-70%

: WN-01-10

#### **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

# consulting , testing , research

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

age

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:**

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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)	Reference Value (W2)	D = W1 - 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, 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
	<b>v</b> 3 <b>1</b> <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	$4.00 \pm 0.10$	Pass
pH QC buffer 6.86	6.91	$6.86 \pm 0.10$	Pass
pH QC buffer 9.18	9.24	$9.18 \pm 0.10$	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, 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.

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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	$4.00 \pm 0.10$	Pass
pH QC buffer 6.86	6.87	$6.86 \pm 0.10$	Pass
pH QC buffer 9.18	9.20	$9.18 \pm 0.10$	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

#### **TEST REPORT**

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

Test Report No.:	38018D
Date of Issue:	2023-03-24
Date Received:	2023-03-23
Date Tested:	2023-03-23 to
	2023-03-24
Date Completed:	2023-03-24
Page:	1 of 2

## Miss Mei Ling Tang

#### **Certificate of Calibration**

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

#### **Test conditions:**

ATTN:

WELLAB Et

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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.:	38018D
Date of Issue:	2023-03-24
Date Received:	2023-03-23
Date Tested:	2023-03-23 to
	2023-03-24
Date Completed:	2023-03-24
Page:	2 of 2

#### **Certificate of Calibration**

#### **Results:**

#### Conductivity performance checking

	Instrument Readings (µS/cm)	Accetance Criteria	Comment
KCl stock solution	13200	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	4.00	$4.00 \pm 0.10$	Pass
pH QC buffer 6.86	6.88	6.86 <u>+</u> 0.10	Pass
pH QC buffer 9.18	9.21	9.18 ± 0.10	Pass

#### D.O. performance checking

	Instrument Readings (mg/L)	Accetance Criteria	Comment
Zero DO soultion	0.08	<0.1mg/L	Pass

Winkler Titration value (mg/L)	Instrument Readings (mg/L)	Accetance Criteria	Comment
8.16	8.10	Difference between Titration value and	Pass
		instrument reading <0.2mg/L	

#### Turbidity performance checking

Turbidity stock solution	Instrument Readings (NTU)	Accetance Criteria	Comment
10 NTU	9.58	9.0-11.0	Pass
50 NTU	48.86	45.0-55.0	Pass
100 NTU	97.2	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

**Miss Mei Ling Tang** 

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consulting . testing . research

Test Report No.:	38018E
Date of Issue:	2023-03-24
Date Received:	2023-03-23
Date Tested:	2023-03-23 to
	2023-03-24
Date Completed:	2023-03-24
Page:	1 of 2

## Certificate of Calibration

nem for canoration;		
YSI EXO1 Multiparameter Sondes	Equipment No.:	SW-08-150
Manufacturer:	YSI Incorporated,	a Xylem brand
Description:	Model No.	Serial No.
- EXO1 Sonde, 100 meter Depth, 4 Sensor ports	599502-24	17B103705
- EXO Optical DO Sensor, Ti	599100-01	17B102237
- EXO conductivity/Temperature Sensor, Ti	599870	17B100807
- EXO Turbidity Sensor, Ti	599101-01	17B102280
- EXO pH Sensor Assembly, Guarded, Ti	599701	17C100695

#### **Test conditions:**

ATTN:

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

#### **Test Specifications:**

Item for calibration.

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

#### Methodology:

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

PA<sup>I</sup>TRICK TSE General Manager



## **TEST REPORT**

Test Report No.:	38018E
Date of Issue:	2023-03-24
Date Received:	2023-03-23
Date Tested:	2023-03-23 to
	2023-03-24
Date Completed:	2023-03-24
Page:	2 of 2

#### **Certificate of Calibration**

#### **Results:**

#### Conductivity performance checking

	Instrument Readings (µS/cm)	Accetance Criteria	Comment
KCl stock solution	13400	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	Accetance Criteria	Comment
	(pH unit)		
pH QC buffer 4.00	3.99	$4.00 \pm 0.10$	Pass
pH QC buffer 6.86	6.86	6.86 <u>+</u> 0.10	Pass
pH QC buffer 9.18	9.19	9.18 <u>+</u> 0.10	Pass

#### D.O. performance checking

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

Comment
Pass
een and ing

#### Turbidity performance checking

Turbidity stock solution	Instrument Readings (NTU)	Accetance Criteria	Comment
10 NTU	10.01	9.0-11.0	Pass
50 NTU	51.64	45.0-55.0	Pass
100 NTU	99.31	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 (March 2023)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1-Mar	2-Mar	3-Mar	4-Mar
			A. (C. S. (D. 112)			
			Avifauna Survey (Pond 12) 1hr TSP X 3			
			Noise		Herpetofauna Survey	
			TOBE		Helpetolaulia Balvey	
			Water Quality Monitoring		Water Quality Monitoring	
5-Mar	6-Mar	7-Mar	8-Mar	9-Mar	10-Mar	11-Mar
			Aquatic Fauna Survey (Water			
	Avifauna Survey (Pond 12)		Quality Monitoring only)			
		1hr TSP X 3 Noise				
	24hr TSP	Noise			24hr TSP	
	Water Quality Monitoring		Water Quality Monitoring		Water Quality Monitoring	
12-Mar		14-Mar	15-Mar	16-Mar	17-Mar	18-Mar
					Aquatic Fauna Survey (Water	
			Avifauna Survey (Pond 12)		Quality Monitoring only)	
	1hr TSP X 3				1hr TSP X 3	
	Noise			241 TOD		
	Water Quality Monitoring		Water Quality Monitoring	24hr TSP	Water Quality Monitoring	
19-Mar		21-Mar	22-Mar	23-Mar	24-Mar	25-Mar
	Aquatic Fauna Survey (Water					
	Quality Monitoring only)		Avifauna Survey (Pond 12)			
				1hr TSP X 3		
				Noise	Avifauna flight line survey	
			24hr TSP			
	Water Quality Monitoring 27-Mar	28-Mar	Water Quality Monitoring 29-Mar	30-Mar	Water Quality Monitoring 31-Mar	
20-1111		20-141	27-141	50-11141	51-iviai	
	Aquatic Fauna Survey		Avifauna Survey (Pond 12)			
			1hr TSP X 3			
			Noise			
		24hr TSP				
	Water Quality Monitoring		Water Quality Monitoring		Water Quality Monitoring	

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

Noise Monitoring Station NMS-1 - Village House in Ha Wan Tsuen

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

NMS-3 - Village house along Old Border Road

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

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

#### Service Contract No. WD/04/2020 Tentative Impact Monitoring Schedule (April 2023)

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~						1-Apr
						1
2-Apr	3-Apr	4-Apr	5-Apr	6-Apr	7-Apr	8-Apr
•	Aquatic Fauna Survey (Water	1		1	L.	
	Quality Monitoring only)					
	Avifauna Survey (Pond 12)	1hr TSP X 3		1hr TSP X 3		
		Noise		1		
	24hr TSP	110150		24hr TSP		
	Water Quality Monitoring			Water Quality Monitoring		Water Quality Monitoring
9-Apr	10-Apr	11-Apr	12-Apr	13-Apr	14-Apr	15-Apr
,	1011.01		Aquatic Fauna Survey (Water	10		10 11 1
			Quality Monitoring only)			
			1hr TSP X 3	Avifauna Survey (Pond 12)		
			Noise			
		24hr TSP	TOBE			
		Water Quality Monitoring		Water Quality Monitoring		Water Quality Monitoring
16-Apr	17-Apr	18-Apr	19-Apr	20-Apr	21-Apr	22-Apr
	-,		Aquatic Fauna Survey (Water			
			Quality Monitoring only)			
		1hr TSP X 3	Avifauna Survey (Pond 12)			
		Noise			Avifauna flight line survey	
	24hr TSP		Herpetofauna Survey		24hr TSP	
	Water Quality Monitoring		Water Quality Monitoring		Water Quality Monitoring	
23-Apr	24-Apr	25-Apr		27-Apr	28-Apr	29-Apr
			Aquatic Fauna Survey	-/		
			Avifauna Survey (Pond 12)			
	1hr TSP X 3		······································		1hr TSP X 3	
	Noise				111 101 110	
	1.0150			24hr TSP		
	Water Quality Monitoring		Water Quality Monitoring	2	Water Quality Monitoring	
30-Apr					Quanty monitoring	
	··· • · · · • • • · · · · · · · · · · ·					

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

#### Air Quality Monitoring Station

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

#### Noise Monitoring Station

NMS-1 - Village House in Ha Wan Tsuen

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

NMS-3 - Village house along Old Border Road

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

#### Water Quality Monitoring Station

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

APPENDIX E 1-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATION

Date	Time	Weather	Particulate Concentration ( µg/m <sup>3</sup> )
1-Mar-23	9:00	Sunny	83.0
1-Mar-23	10:00	Sunny	182.3
1-Mar-23	11:00	Sunny	140.4
7-Mar-23	9:00	Sunny	57.6
7-Mar-23	10:00	Sunny	52.2
7-Mar-23	11:00	Sunny	54.8
13-Mar-23	9:00	Cloudy	187.4
13-Mar-23	10:00	Cloudy	193.8
13-Mar-23	11:00	Cloudy	181.7
17-Mar-23	9:00	Sunny	106.2
17-Mar-23	10:00	Sunny	97.2
17-Mar-23	11:00	Sunny	77.5
23-Mar-23	13:00	Fine	88.6
23-Mar-23	14:00	Fine	68.2
23-Mar-23	15:00	Fine	60.1
29-Mar-23	8:30	Cloudy	78.3
29-Mar-23	9:30	Cloudy	88.2
29-Mar-23	10:30	Cloudy	82.4
		Minimum	52.2
		Maximum	193.8
	ſ	Average	104.4

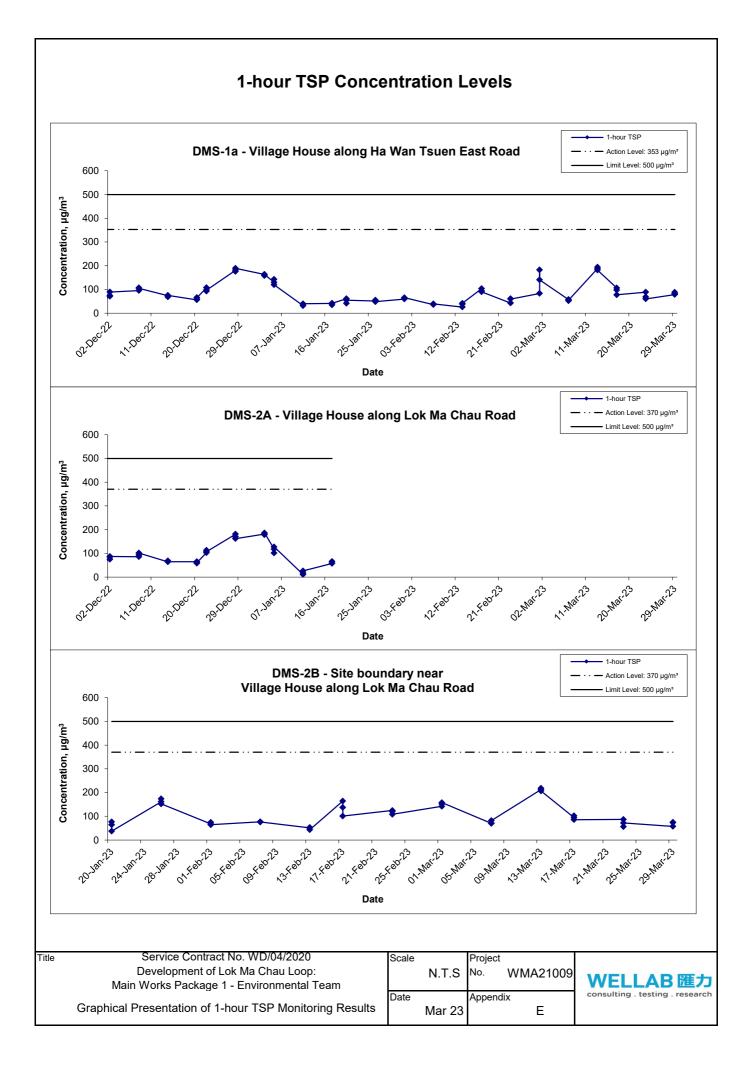
## Appendix E - 1-hour TSP Monitoring Results

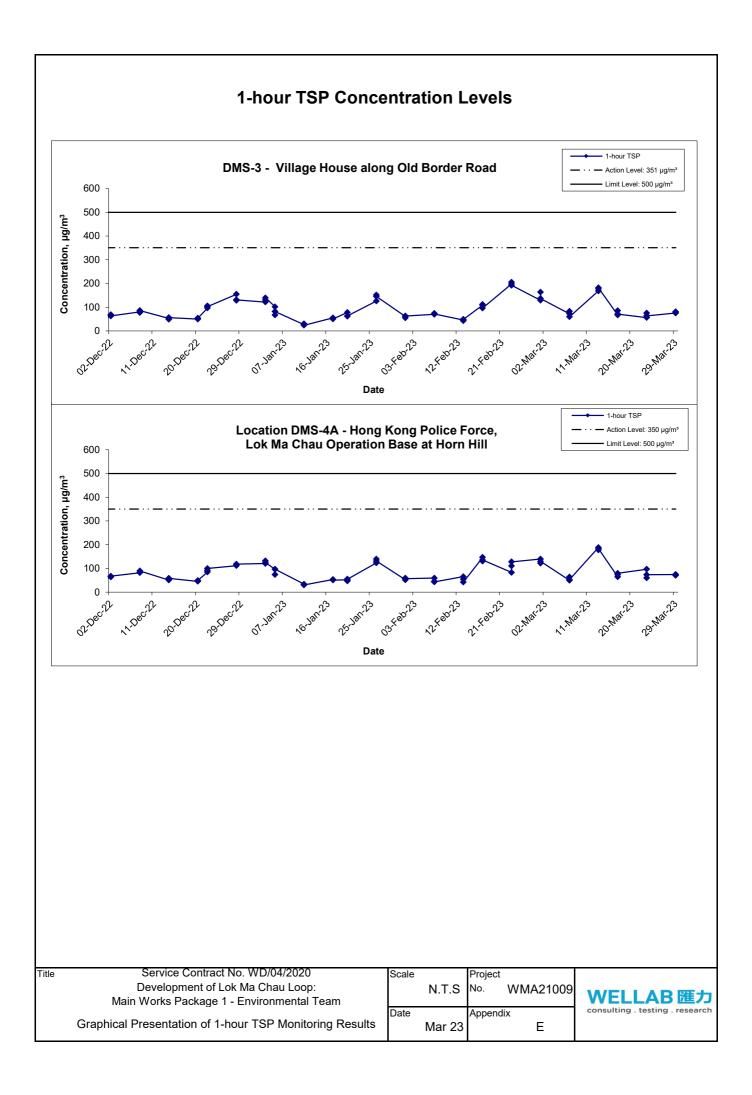
Location DMS-2	Location DMS-2B - Site boundary near Village House along Lok Ma Chau Road					
Date	Time	Weather	Particulate Concentration ( µg/m <sup>3</sup> )			
1-Mar-23	8:30	Sunny	142.1			
1-Mar-23	9:30	Sunny	152.2			
1-Mar-23	10:30	Sunny	157.6			
7-Mar-23	8:30	Sunny	69.9			
7-Mar-23	9:30	Sunny	71.0			
7-Mar-23	10:30	Sunny	81.8			
13-Mar-23	9:00	Cloudy	211.9			
13-Mar-23	10:00	Cloudy	218.3			
13-Mar-23	11:00	Cloudy	207.0			
17-Mar-23	9:00	Sunny	95.0			
17-Mar-23	10:00	Sunny	102.2			
17-Mar-23	11:00	Sunny	85.7			
23-Mar-23	13:15	Fine	86.9			
23-Mar-23	14:15	Fine	56.5			
23-Mar-23	15:15	Fine	71.8			
29-Mar-23	9:00	Cloudy	57.4			
29-Mar-23	10:00	Cloudy	74.3			
29-Mar-23	11:00	Cloudy	74.1			
		Minimum	56.5			
		Maximum	218.3			
		Average	112.0			

Date	Time	Weather	Particulate Concentration ( µg/m <sup>3</sup> )
1-Mar-23	9:00	Sunny	128.9
1-Mar-23	10:00	Sunny	163.3
1-Mar-23	11:00	Sunny	136.6
7-Mar-23	8:30	Sunny	72.4
7-Mar-23	9:30	Sunny	82.8
7-Mar-23	10:30	Sunny	59.5
13-Mar-23	8:15	Cloudy	168.4
13-Mar-23	9:15	Cloudy	176.8
13-Mar-23	10:15	Cloudy	181.7
17-Mar-23	8:40	Sunny	67.1
17-Mar-23	9:40	Sunny	85.1
17-Mar-23	10:40	Sunny	71.0
23-Mar-23	8:00	Cloudy	56.2
23-Mar-23	9:00	Cloudy	75.5
23-Mar-23	10:00	Cloudy	63.8
29-Mar-23	8:50	Cloudy	75.5
29-Mar-23	9:50	Cloudy	79.4
29-Mar-23	10:50	Cloudy	80.7
		Minimum	56.2
		Maximum	181.7
		Average	101.4

## 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 <sup>3</sup> )			
1-Mar-23	13:15	Sunny	139.2			
1-Mar-23	14:15	Sunny	121.8			
1-Mar-23	15:15	Sunny	129.4			
7-Mar-23	13:15	Sunny	49.5			
7-Mar-23	14:15	Sunny	63.9			
7-Mar-23	15:15	Sunny	52.5			
13-Mar-23	13:00	Cloudy	187.8			
13-Mar-23	14:00	Cloudy	177.8			
13-Mar-23	15:00	Cloudy	183.5			
17-Mar-23	13:00	Sunny	64.2			
17-Mar-23	14:00	Sunny	73.0			
17-Mar-23	15:00	Sunny	79.5			
23-Mar-23	9:00	Cloudy	96.5			
23-Mar-23	10:00	Cloudy	59.8			
23-Mar-23	11:00	Cloudy	73.2			
29-Mar-23	13:15	Cloudy	74.4			
29-Mar-23	14:15	Cloudy	71.5			
29-Mar-23	15:15	Cloudy	70.5			
		Minimum	49.5			
		Maximum	187.8			
		Average	98.2			





APPENDIX F 24-HOUR TSP MONITORING RESULTS AND GRAPHICAL PRESENTATION

# Appendix F - 24-hour TSP Monitoring Results

Location DMS-	1a - Village H	louse along Ha Wa	n Tsuen East Road
Date	Time	Weather	Particulate Concentration ( µg/m <sup>3</sup> )
6-Mar-23	8:25	Sunny	58.7
10-Mar-23	9:00	Sunny	63.3
16-Mar-23	8:55	Sunny	82.3
22-Mar-23	10:55	Fine	92.0
28-Mar-23	9:15	Cloudy	89.3
		Minimum	58.7
		Maximum	92.0
		Average	77.1

Location DMS-	2B - Site bou	Indary near Village	e House along Lok Ma Chau Road
Date	Time	Weather	Particulate Concentration ( µg/m <sup>3</sup> )
6-Mar-23	8:20	Sunny	78.5
10-Mar-23	9:00	Sunny	90.5
16-Mar-23	8:50	Sunny	85.6
22-Mar-23	10:45	Fine	60.3
28-Mar-23	9:25	Cloudy	60.6
		Minimum	60.3
		Maximum	90.5
		Average	75.1

#### Appendix F - 24-hour TSP Monitoring Results

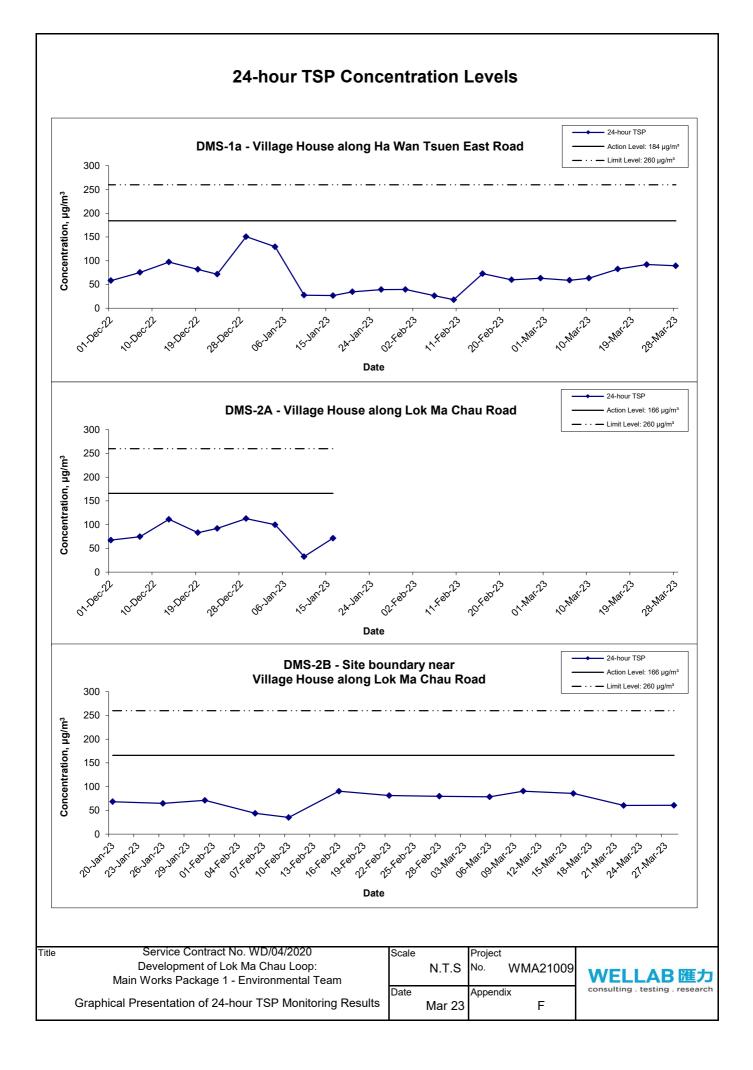
Location DMS-3 - Village House along Old Border Road

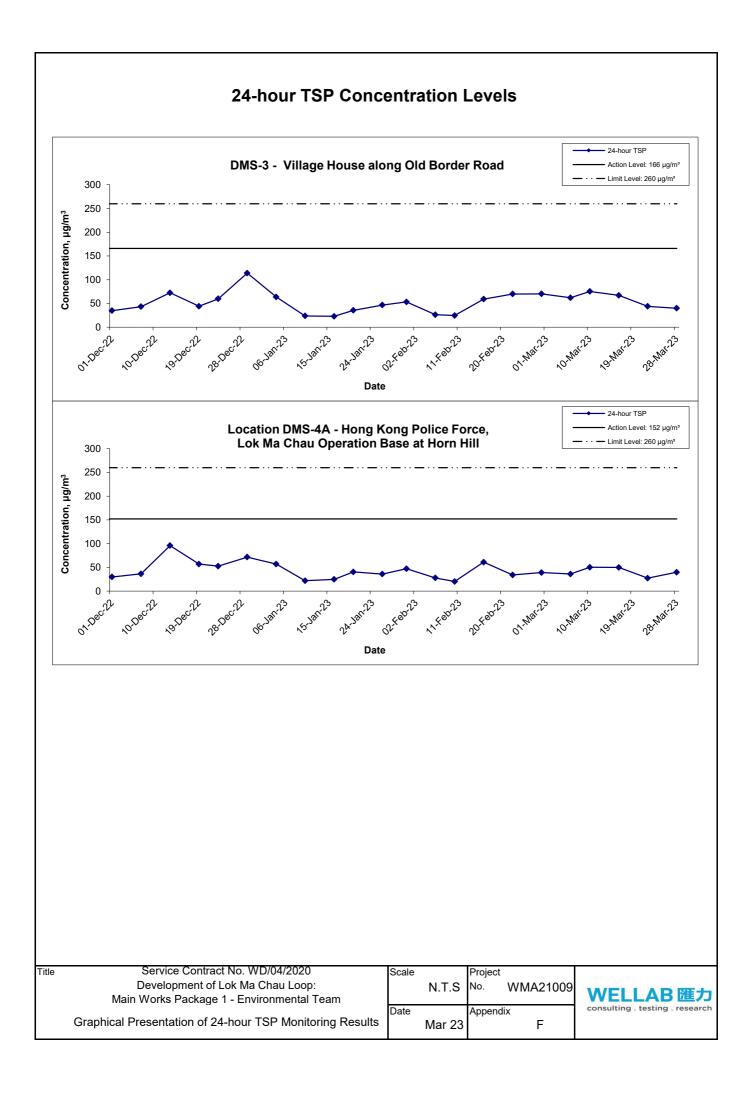
Start Date	Weather	Air	Atmospheric	Filter W	eight (g)	Particulate	Elapse	e Time	Sampling	Flow Rate	e (m <sup>3</sup> /min.)	Av. flow	Total vol.	Conc.
Start Date	Condition	Temp. (K)	Pressure, Pa (mmHg)	Initial	Final	weight (g)	Initial	Final	Time(hrs.)	Initial	Final	(m <sup>3</sup> /min)	(m <sup>3</sup> )	(µg/m³)
6-Mar-23	Sunny	291.1	770.6	2.9676	3.0779	0.1103	3693.9	3717.9	24.0	1.237	1.235	1.236	1779.3	62.0
10-Mar-23	Cloudy	291.8	766.6	2.9373	3.0707	0.1334	3717.9	3741.9	24.0	1.233	1.228	1.230	1771.8	75.3
16-Mar-23	Sunny	292.1	765.7	2.8784	2.9970	0.1186	3741.9	3765.9	24.0	1.230	1.228	1.229	1769.6	67.0
22-Mar-23	Cloudy	296.1	759.7	2.9289	3.0057	0.0768	3765.9	3789.9	24.0	1.219	1.210	1.214	1748.6	43.9
28-Mar-23	Cloudy	289.2	765.5	2.9581	3.0291	0.0710	3789.9	3813.9	24.0	1.234	1.237	1.235	1779.1	39.9
													Min	39.9
													Max	75.3
													Average	57.6

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 <sup>3</sup> /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 <sup>3</sup> /min)	(m <sup>3</sup> )	(µg/m <sup>3</sup> )
6-Mar-23	Sunny	291.1	770.6	2.9076	2.9711	0.0635	33242.2	33266.2	24.0	1.231	1.228	1.229	1770.5	35.9
10-Mar-23	Cloudy	291.8	766.6	2.9429	3.0313	0.0884	33266.2	33290.2	24.0	1.226	1.222	1.224	1762.6	50.2
16-Mar-23	Sunny	292.1	765.7	2.9552	3.0427	0.0875	33290.2	33314.2	24.0	1.224	1.221	1.222	1760.2	49.7
22-Mar-23	Cloudy	296.1	759.7	2.9480	2.9953	0.0473	33314.6	33338.6	24.0	1.212	1.202	1.207	1738.1	27.2
28-Mar-23	Cloudy	289.2	765.5	2.9362	3.0063	0.0701	33338.6	33362.6	24.0	1.227	1.231	1.229	1770.2	39.6
													Min	27.2
													Max	50.2

Average 40.5





APPENDIX G NOISE MONITORING RESULTS AND GRAPHICAL PRESENTATION

#### Appendix G - Noise Monitoring Results

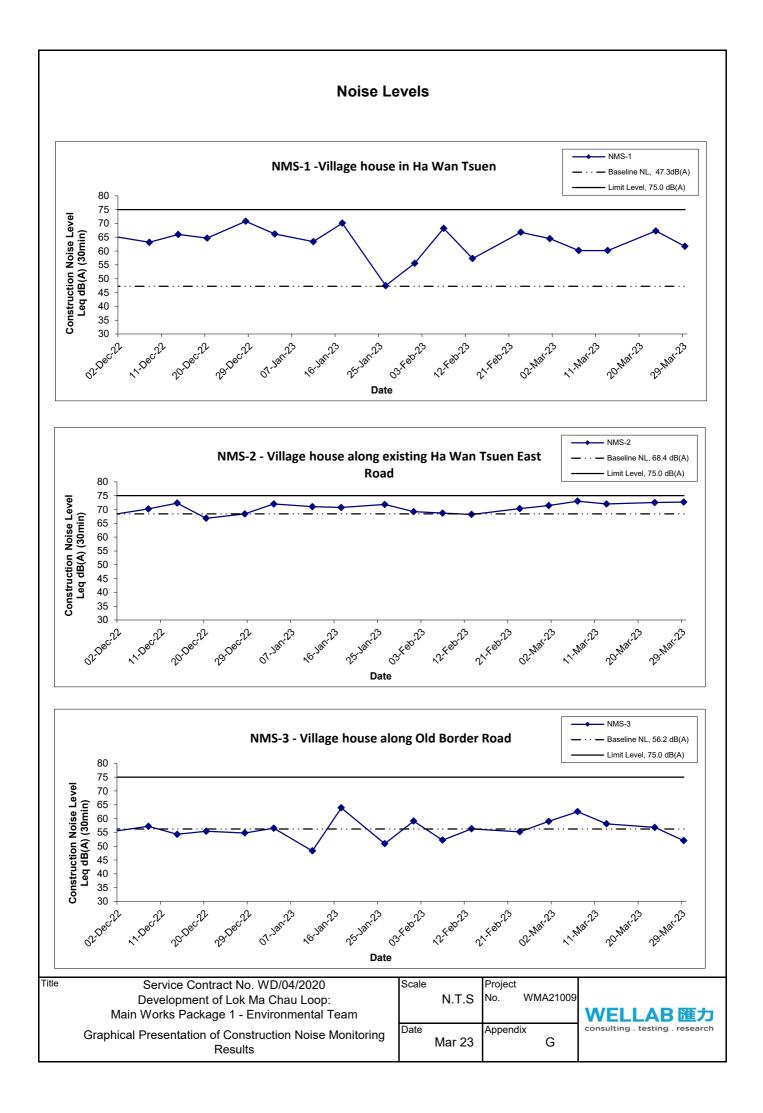
Location NMS	-1 -Village ho	use in Ha W	an Tsuen				
Data		<b>T</b> :	Un	it: dB (A) (5-r	nin)	Average	Baseline Level
Date	Weather	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>eq</sub>
		08:30	65.1	67.2	62.4		
		08:35	65.4	67.3	62.6		
1-Mar-23	Sunny	08:40	64.0	65.6	62.6	64.5	
1-IVId1-23	Sunny	08:45	64.6	66.4	62.9	04.5	
		08:50	63.9	65.2	62.8		
		08:55	64.0	65.2	62.8		
		10:05	61.9	64.3	59.8		
		10:10	63.1	65.5	60.5		
7-Mar-23	Sunny	10:15	60.2	61.9	58.2	60.2	
7-IVIAI-23	Sunny	10:20	58.4	59.4	57.4	00.2	
		10:25	57.4	59.8	53.7		
		10:30	56.0	57.7	53.6		
		09:50	61.7	66.6	53.3		
		09:55	55.9	58.3	53.1		
13-Mar-23	Claudy	10:00	60.1	65.0	52.6	60.2	47.0
13-10121-23	Cloudy	10:05	60.6	66.2	53.4	00.2	47.3
		10:10	60.0	64.4	53.5		
		10:15	60.8	64.8	53.4		
		09:40	56.7	58.2	55.3		
		09:45	72.3	78.4	57.0		
23-Mar-23	Claudy	09:50	70.1	72.8	57.1	67.3	
23-10121-23	Cloudy	09:55	59.9	63.2	56.2	07.5	
		10:00	60.7	62.5	58.4		
		10:05	63.9	63.6	58.8		
		10:50	63.6	67.7	55.9		7
		10:55	62.2	65.2	57.1		
20 Mar 22	Claudy	11:00	61.0	63.5	57.2	61 7	
29-Mar-23	Cloudy	11:05	61.1	63.8	56.7	61.7	
		11:10	60.9	63.6	56.7		
		11:15	60.3	62.9	59.5		

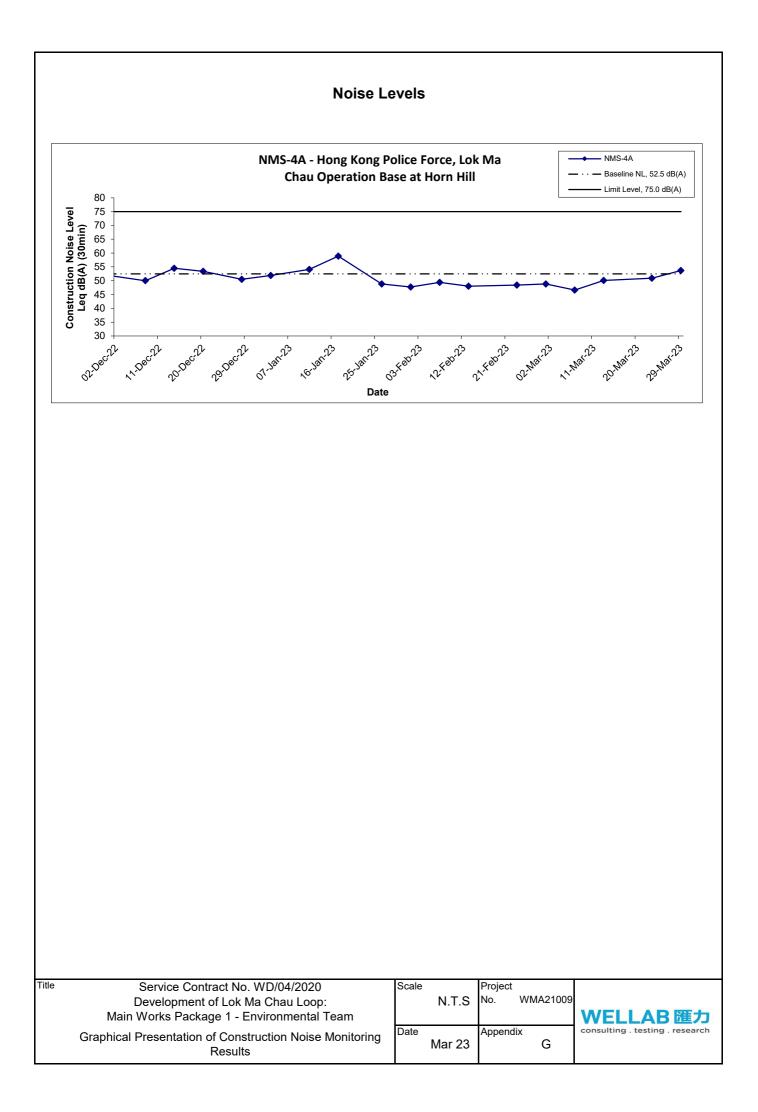
Location NMS	-2 - Village ho	ouse along e	xisting Ha V	Van Tsuen E	ast Road		
Data	Weather	Time	Un	it: dB (A) (5-r	nin)	Average	Baseline Leve
Date	weather	Time	L <sub>eq</sub>	L <sub>10</sub>	L 90	L <sub>eq</sub>	L <sub>eq</sub>
		09:50	71.2	75.2	57.2		
		09:55	72.0	75.2	56.7		
1-Mar-23	Sunny	10:00	72.1	75.7	58.6	71.4	
1-10101-20	Guility	10:05	72.4	74.6	54.3	71.4	
		10:10	69.5	74.1	56.6		
		10:15	70.8	74.0	54.1		
		11:15	72.7	75.7	66.8		
		11:20	73.5	76.2	67.9		
7-Mar-23	Sunny	11:25	71.6	75.2	67.1	73.0	
7-Mai-20	Guility	11:30	71.6	75.1	64.9	75.0	
		11:35	73.8	74.2	66.8		
		11:40	74.2	77.1	64.1		
		10:35	71.5	75.0	58.4		
		10:40	72.5	75.9	55.9		
13-Mar-23	Cloudy	10:45	70.6	74.8	57.0	72.0	00.4
13-Iviai-23	Cloudy	10:50	73.3	75.5	58.7	72.0	68.4
		10:55	71.9	74.7	54.3		
		11:00	72.0	75.7	52.5		
		13:22	71.6	75.2	67.1		
		13:27	73.4	76.1	67.8		
23-Mar-23	Cloudy	13:32	69.5	74.2	60.3	72.5	
23-10121-23	Cloudy	13:37	71.5	74.9	60.4	72.5	
		13:42	73.5	76.2	67.9		
		13:47	73.8	74.3	66.2		
		09:55	71.8	75.8	59.5		]
		10:00	71.0	74.8	57.7		
29-Mar-23	Sunny	10:05	75.4	78.1	58.3	72.7	
23-11101-23	Sumry	10:10	73.5	77.4	59.2	12.1	
		10:15	70.3	74.2	59.3		
		10:20	72.3	75.1	60.9		

#### Appendix G - Noise Monitoring Results

Location NMS-	3 - Village ho	ouse along C	ld Border R	oad			
Dete	M/a ath an	Time	Un	it: dB (A) (5-n	nin)	Average	Baseline Level
Date	Weather	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>eq</sub>
		11:00	59.5	61.9	57.5		
		11:05	59.8	60.8	57.8		
1-Mar-23	Sunny	11:10	59.5	61.3	57.9	59.0	
1-Ivia1-23	Sunny	11:15	58.1	58.6	57.5	59.0	
		11:20	58.8	59.2	57.4		
		11:25	58.2	58.8	57.4		
		08:40	57.6	58.6	56.2		
		08:45	68.8	73.5	58.1		
7-Mar-23	Sunny	08:50	58.9	61.9	56.3	62.5	
7-Mai-25	Sunny	08:55	58.5	59.0	56.1	02.5	
		09:00	56.7	57.5	55.8		
		09:05	57.4	58.6	55.9		
		08:30	55.3	58.6	53.7		
		08:35	55.2	56.9	53.4		
13-Mar-23	Cloudy	08:40	55.4	56.6	53.7	58.1	50.0
13-IVIAI-23	Cloudy	08:45	58.4	60.5	53.9	30.1	56.2
		08:50	54.9	56.0	53.5		
		08:55	62.7	64.4	53.9		
		09:00	55.9	59.6	45.0		
		09:05	58.7	59.4	46.3		
23-Mar-23	Claudy	09:10	59.7	63.7	47.4	56.8	
23-11/121-23	Cloudy	09:15	54.9	55.4	43.9	0.00	
		09:20	54.7	59.1	44.1		
		09:25	52.4	55.2	46.0		
		09:05	49.6	52.6	44.2		1
		09:10	55.1	59.5	43.9		
29-Mar-23	Claudy	09:15	50.6	53.4	44.6	52.0	
29-IVIar-23	Cloudy	09:20	51.6	53.6	43.5	52.0	
		09:25	50.8	53.0	44.0		
		09:30	51.7	54.7	43.9		

Location NMS	-4A - Hong Ko	ong Police F	orce, Lok M	a Chau Oper	ation Base a	at Horn Hill	
Dete		<b>T</b> :	Un	it: dB (A) (5-r	nin)	Average	Baseline Level
Date	Weather	Time	L <sub>eq</sub>	L <sub>10</sub>	L <sub>90</sub>	L <sub>eq</sub>	L <sub>eq</sub>
		13:25	49.1	50.3	45.7		
		13:30	49.1	50.7	45.3		
1-Mar-23	Sunny	13:35	49.0	51.4	45.5	48.8	
1-ivia1-23	Sunny	13:40	45.8	47.2	44.3	40.0	
		13:45	50.3	53.6	44.7		
		13:50	48.3	51.6	44.4		
		14:00	48.5	51.4	44.1		
		14:05	46.3	48.4	43.6		
7-Mar-23	Sunny	14:10	45.1	46.4	43.7	46.6	
7-IVIAI-25	Sunny	14:15	47.1	49.6	44.1	40.0	
		14:20	46.0	47.0	43.5		
		14:25	46.0	47.8	43.5		
		13:05	53.6	54.1	43.2		
		13:10	46.4	47.5	42.4		
13-Mar-23	Cloudy	13:15	50.9	53.9	43.0	50.1	50.5
13-IVIAI-23	Cloudy	13:20	48.4	51.1	43.3	50.1	52.5
		13:25	48.9	48.6	41.9		
		13:30	48.3	51.5	44.1		
		09:00	54.7	56.2	44.9		
		09:05	48.4	49.7	43.2		
23-Mar-23	Claudu	09:10	51.4	54.2	43.1	50.9	
23-Iviar-23	Cloudy	09:15	50.1	53.0	43.4	50.9	
		09:20	48.3	51.4	44.1		
		09:25	48.4	51.3	43.2		
		13:10	54.2	55.2	52.6		
		13:15	54.5	55.3	52.6		
20 Mar 22	Claudy	13:20	53.7	54.7	53.8	F0 7	
29-Mar-23	Cloudy	13:25	53.7	54.5	52.5	53.7	
		13:30	53.6	54.4	52.8		
		13:35	52.0	54.1	58.0		





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)	I	эΗ	Salin	ity ppt	DO Satu	ration (%)	Dissolved O	xygen (mg/L)	Turbid	ity(NTU)	Suspended	Solids (mg/L)
Dale	Condition	Condition**	Time	Depi	()	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
1-Mar-23	Sunny	Calm	10:28	Middle	0.5	20.8 20.8	20.8	7.8 7.8	7.8	8.9 8.9	8.9	83.9 83.9	83.9	7.1 7.1	7.1	13.3 13.3	13.3	26 25	25.5
3-Mar-23	Sunny	Calm	10:55	Middle	0.3	22.1 22.1	22.1	7.7 7.6	7.7	4.5 4.5	4.5	87.3 87.1	87.2	7.4 7.4	7.4	7.3 7.2	7.3	8 9	8.5
6-Mar-23	Sunny	Calm	11:38	Middle	0.3	23.9 23.9	23.9	7.3 7.3	7.3	4.5 4.5	4.5	91.8 91.4	91.6	7.6 7.5	7.6	9.9 10.0	10.0	13 11	12.0
8-Mar-23	Sunny	Calm	13:08	Middle	0.5	24.3 24.3	24.3	7.8 7.8	7.8	8.9 8.9	8.9	96.9 96.8	96.9	7.7 7.7	7.7	12.8 12.6	12.7	16 18	17.0
10-Mar-23	Sunny	Calm	09:49	Middle	0.5	23.2 23.2	23.2	7.4 7.4	7.4	8.8 8.8	8.8	92.6 92.4	92.5	7.5 7.5	7.5	13.4 13.4	13.4	30 28	29.0
13-Mar-23	Fine	Calm	14:06	Middle	0.5	22.3 22.3	22.3	7.1 7.1	7.1	8.8 8.8	8.8	64.1 63.7	63.9	5.3 5.3	5.3	14.0 13.9	14.0	18 19	18.5
15-Mar-23	Cloudy	Calm	10:06	Middle	0.3	23.8 23.8	23.8	7.3 7.3	7.3	4.5 4.5	4.5	90.4 90.1	90.3	7.4 7.4	7.4	6.3 6.2	6.3	18 19	18.5
17-Mar-23	Sunny	Calm	09:38	Middle	0.6	23.1 23.1	23.1	7.4 7.4	7.4	8.7 8.7	8.7	92.3 92.0	92.2	7.5 7.5	7.5	18.6 18.4	18.5	28 32	30.0
20-Mar-23	Sunny	Calm	09:02	Middle	0.5	23.3 23.3	23.3	7.4 7.4	7.4	8.6 8.6	8.6	61.1 61.2	61.2	5.0 5.0	5.0	11.7 11.6	11.7	31 30	30.5
22-Mar-23	Cloudy	Calm	11:48	Middle	0.3	24.7 24.7	24.7	7.7 7.7	7.7	8.0 8.0	8.0	77.0 77.0	77.0	6.1 6.1	6.1	50.0 49.6	49.8	24 24	24.0
24-Mar-23	Cloudy	Calm	12:13	Middle	0.5	25.7 25.8	25.8	8.0 8.0	8.0	8.4 8.4	8.4	129.4 129.9	129.7	10.1 10.1	10.1	13.5 13.1	13.3	18 18	18.0
27-Mar-23	Cloudy	Calm	11:37	Middle	0.3	21.3 21.3	21.3	7.4 7.4	7.4	4.8 4.8	4.8	58.8 58.7	58.8	5.1 5.1	5.1	10.7 10.7	10.7	10 10	10.0
29-Mar-23	Cloudy	Calm	13:30	Middle	0.5	21.6 21.6	21.6	7.2 7.2	7.2	5.9 5.9	5.9	59.1 58.5	58.8	5.0 5.0	5.0	17.6 18.1	17.9	14 16	15.0
31-Mar-23	Cloudy	Calm	10:50	Middle	0.4	22.1 22.1	22.1	7.7 7.7	7.7	5.6 5.6	5.6	57.0 57.6	57.3	4.8 4.9	4.9	5.6 5.6	5.6	10 12	11.0

#### Water Quality Monitoring Results at CS5

Date	Weather	Sea	Sampling	Den	th (m)	Tempera	ature (°C)	ł	ъH	Salin	ity ppt	DO Satu	ration (%)	Dissolved O	xygen (mg/L)	Turbid	ity(NTU)	Suspended	Solids (mg/L)
Dale	Condition	Condition**	Time	Deb	an (nn)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
1-Mar-23	Sunny	Calm	09:09	Middle	0.1	17.4 17.4	17.4	7.8 7.8	7.8	1.4 1.4	1.4	95.3 95.3	95.3	9.1 9.1	9.1	6.8 7.4	7.1	8 8	8.0
3-Mar-23	Sunny	Calm	10:02	Middle	0.1	19.1 19.2	19.2	7.3 7.3	7.3	2.2 2.2	2.2	73.2 73.1	73.2	6.7 6.7	6.7	15.2 15.2	15.2	16 18	17.0
6-Mar-23	Sunny	Calm	10:36	Middle	0.1	24.3 24.4	24.4	8.3 8.3	8.3	0.8 0.8	0.8	134.6 134.7	134.7	11.2 11.2	11.2	10.0 9.9	10.0	8 8	8.0
8-Mar-23	Sunny	Calm	12:24	Middle	0.1	25.4 25.4	25.4	8.5 8.5	8.5	0.8 0.8	0.8	192.9 193.3	193.1	15.8 15.8	15.8	9.5 9.5	9.5	9 11	10.0
10-Mar-23	Sunny	Calm	09:17	Middle	0.1	21.4 21.4	21.4	7.9 7.9	7.9	0.6 0.6	0.6	92.9 92.9	92.9	8.2 8.2	8.2	6.4 6.3	6.4	3 4	3.5
13-Mar-23	Fine	Calm	13:25	Middle	0.2	21.7 21.7	21.7	7.1 7.1	7.1	3.0 3.0	3.0	70.1 69.9	70.0	6.1 6.0	6.1	44.0 44.4	44.2	58 63	60.5
15-Mar-23	Cloudy	Calm	09:19	Middle	0.1	24.0 24.0	24.0	8.4 8.4	8.4	0.8 0.8	0.8	149.0 149.2	149.1	12.5 12.5	12.5	5.7 5.8	5.8	3 <2.5	2.8
17-Mar-23	Sunny	Calm	08:56	Middle	0.1	21.1 21.1	21.1	7.8 7.7	7.8	0.4 0.4	0.4	69.8 69.4	69.6	6.2 6.2	6.2	9.3 8.5	8.9	6 6	6.0
20-Mar-23	Sunny	Calm	08:19	Middle	0.1	21.7 21.7	21.7	7.7 7.7	7.7	0.7 0.7	0.7	69.1 69.6	69.4	6.1 6.1	6.1	10.4 10.2	10.3	12 12	12.0
22-Mar-23	Cloudy	Calm	11:06	Middle	0.2	24.9 25.0	25.0	7.5 7.5	7.5	0.8 0.8	0.8	73.3 72.5	72.9	6.0 6.0	6.0	62.2 62.7	62.5	47 53	50.0
24-Mar-23	Cloudy	Calm	11:18	Middle	0.3	25.2 25.2	25.2	6.9 6.9	6.9	0.7 0.7	0.7	73.1 72.6	72.9	6.0 6.0	6.0	63.9 63.5	63.7	60 52	56.0
27-Mar-23	Cloudy	Calm	10:29	Middle	0.2	19.9 19.9	19.9	7.3 7.3	7.3	0.9 0.9	0.9	79.2 79.1	79.2	7.2 7.2	7.2	33.1 33.1	33.1	26 33	29.5
29-Mar-23	Cloudy	Calm	11:14	Middle	0.2	19.7 19.7	19.7	7.6 7.6	7.6	1.2 1.2	1.2	67.2 67.4	67.3	6.1 6.1	6.1	8.7 8.5	8.6	9 8	8.5
31-Mar-23	Cloudy	Calm	09:52	Middle	0.1	22.4 22.4	22.4	8.1 8.1	8.1	0.9 0.9	0.9	83.8 83.6	83.7	7.2 7.2	7.2	7.9 7.9	7.9	27 23	25.0

#### Water Quality Monitoring Results at IS1

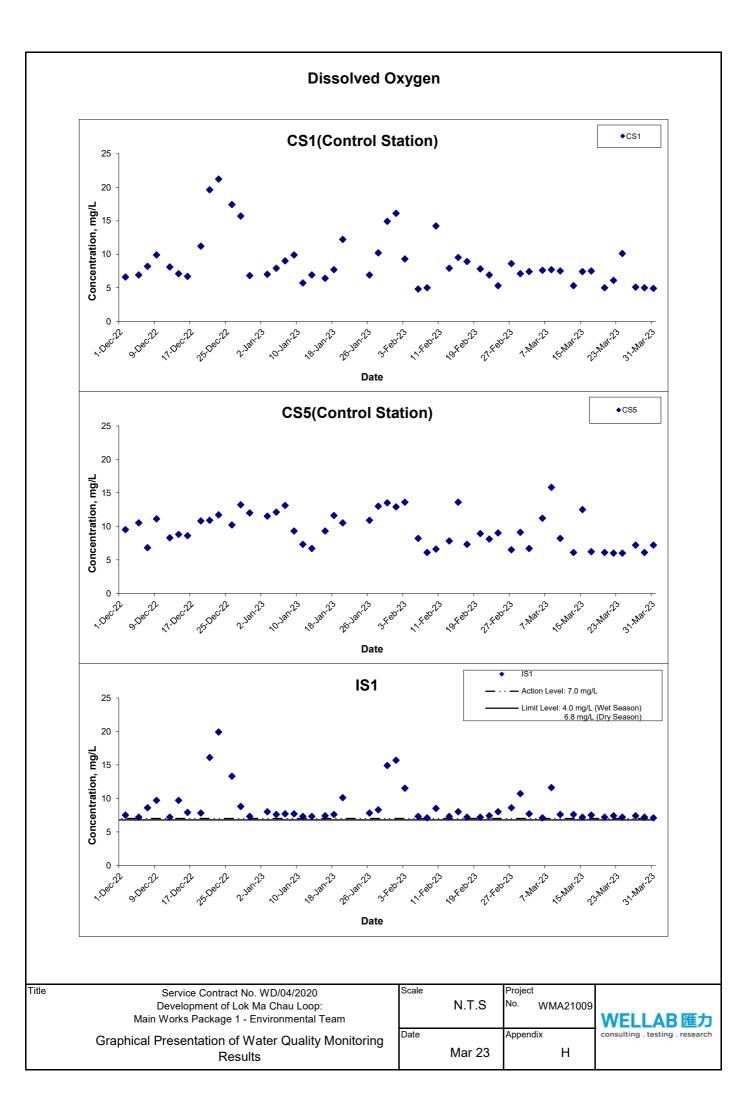
Date	Weather	Sea	Sampling	Dent	h (m)	Tempera	ature (°C)	k	Η	Salin	ity ppt	DO Satu	ration (%)	Dissolved O	xygen (mg/L)	Turbid	ity(NTU)	Suspended	Solids (mg/L)
Dale	Condition	Condition**	Time	Depi	II (III)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
1-Mar-23	Sunny	Calm	10:11	Middle	0.5	20.4 20.4	20.4	8.0 8.1	8.1	8.5 8.5	8.5	124.9 125.2	125.1	10.7 10.7	10.7	8.9 8.8	8.9	23 19	21.0
3-Mar-23	Sunny	Calm	10:37	Middle	0.3	21.6 21.6	21.6	7.7 7.7	7.7	8.2 8.2	8.2	91.9 91.8	91.9	7.7 7.7	7.7	11.1 10.1	10.6	16 14	15.0
6-Mar-23	Sunny	Calm	11:23	Middle	0.3	25.5 25.5	25.5	7.2 7.1	7.2	4.0 4.0	4.0	88.8 88.9	88.9	7.1 7.1	7.1	7.8 7.7	7.8	12 10	11.0
8-Mar-23	Sunny	Calm	12:55	Middle	0.5	24.3 24.3	24.3	8.0 8.0	8.0	8.9 8.9	8.9	145.3 145.6	145.5	11.6 11.6	11.6	12.4 12.3	12.4	17 18	17.5
10-Mar-23	Sunny	Calm	09:38	Middle	0.5	23.2 23.2	23.2	7.2 7.2	7.2	8.6 8.6	8.6	93.7 93.6	93.7	7.6 7.6	7.6	15.2 15.2	15.2	25 23	24.0
13-Mar-23	Fine	Calm	13:45	Middle	0.5	21.8 21.8	21.8	7.0 7.0	7.0	8.4 8.4	8.4	89.0 91.6	90.3	7.4 7.7	7.6	13.4 13.3	13.4	15 15	15.0
15-Mar-23	Cloudy	Calm	09:42	Middle	0.3	24.8 24.8	24.8	7.0 7.0	7.0	4.0 4.0	4.0	87.9 88.6	88.3	7.1 7.2	7.2	6.0 6.1	6.1	7 7	7.0
17-Mar-23	Sunny	Calm	09:19	Middle	0.5	22.3 22.3	22.3	7.2 7.2	7.2	8.2 8.2	8.2	89.0 90.1	89.6	7.4 7.5	7.5	12.5 12.4	12.5	29 26	27.5
20-Mar-23	Sunny	Calm	08:44	Middle	0.5	22.8 22.8	22.8	7.2 7.2	7.2	7.8 7.8	7.8	86.8 87.5	87.2	7.1 7.2	7.2	16.6 16.6	16.6	17 18	17.5
22-Mar-23	Cloudy	Calm	12:07	Middle	0.3	24.9 24.9	24.9	7.3 7.3	7.3	4.8 4.8	4.8	91.8 91.5	91.7	7.4 7.4	7.4	19.1 18.9	19.0	20 22	21.0
24-Mar-23	Cloudy	Calm	11:53	Middle	0.5	25.6 25.6	25.6	7.2 7.2	7.2	8.0 8.0	8.0	92.7 92.4	92.6	7.2 7.2	7.2	15.2 15.2	15.2	23 24	23.5
27-Mar-23	Cloudy	Calm	11:10	Middle	0.3	21.4 21.4	21.4	7.7 7.7	7.7	4.8 4.8	4.8	86.8 84.2	85.5	7.5 7.3	7.4	13.3 13.1	13.2	13 11	12.0
29-Mar-23	Cloudy	Calm	13:10	Middle	0.5	21.1 21.1	21.1	7.1 7.1	7.1	5.8 5.8	5.8	83.4 82.8	83.1	7.2 7.1	7.2	16.3 15.9	16.1	12 11	11.5
31-Mar-23	Cloudy	Calm	10:31	Middle	0.4	21.7 21.7	21.7	7.4 7.4	7.4	5.5 5.5	5.5	82.8 83.1	83.0	7.1 7.1	7.1	11.2 11.2	11.2	13 13	13.0

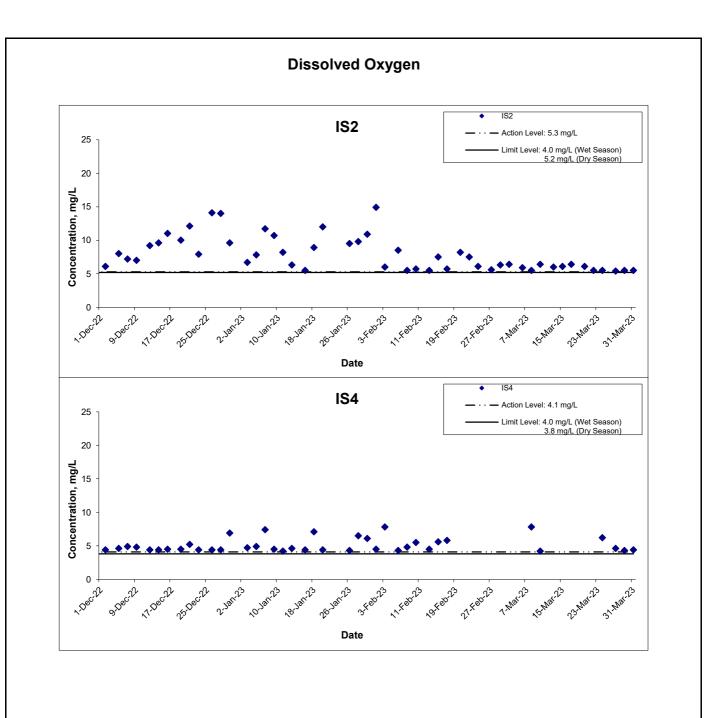
#### Water Quality Monitoring Results at IS2

Date	Weather	Sea	Sampling	Den	th (m)	Tempera	ature (°C)	I	рН	Salin	ity ppt	DO Satu	ration (%)	Dissolved O	xygen (mg/L)	Turbid	ity(NTU)	Suspended	Solids (mg/L)
Dale	Condition	Condition**	Time	Deb	ui (iii)	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
1-Mar-23	Sunny	Calm	08:55	Middle	0.1	18.8 18.8	18.8	7.2 7.2	7.2	7.7 7.7	7.7	70.9 70.6	70.8	6.3 6.3	6.3	29.1 28.4	28.8	35 37	36.0
3-Mar-23	Sunny	Calm	10:18	Middle	0.1	20.7 20.7	20.7	7.4 7.4	7.4	6.9 6.9	6.9	73.9 73.8	73.9	6.4 6.4	6.4	11.8 11.9	11.9	24 30	27.0
6-Mar-23	Sunny	Calm	10:52	Middle	0.1	22.5 22.5	22.5	8.0 8.0	8.0	4.4 4.4	4.4	69.7 69.4	69.6	5.9 5.9	5.9	12.3 12.3	12.3	26 32	29.0
8-Mar-23	Sunny	Calm	12:15	Middle	0.1	22.4 22.4	22.4	7.1 7.1	7.1	6.1 6.1	6.1	65.3 65.6	65.5	5.5 5.5	5.5	32.7 32.6	32.7	33 29	31.0
10-Mar-23	Sunny	Calm	08:28	Middle	0.1	22.0 22.0	22.0	7.3 7.3	7.3	7.6 7.6	7.6	76.8 76.6	76.7	6.4 6.4	6.4	31.0 28.0	29.5	28 34	31.0
13-Mar-23	Fine	Calm	13:05	Middle	0.1	21.9 21.9	21.9	7.1 7.1	7.1	10.2 10.2	10.2	72.7 72.7	72.7	6.0 6.0	6.0	34.9 33.0	34.0	33 33	33.0
15-Mar-23	Cloudy	Calm	09:06	Middle	0.1	22.1 22.1	22.1	7.8 7.8	7.8	4.4 4.4	4.4	71.6 71.4	71.5	6.1 6.1	6.1	9.0 8.7	8.9	26 24	25.0
17-Mar-23	Sunny	Calm	08:37	Middle	0.1	22.5 22.6	22.6	7.1 7.1	7.1	2.8 2.8	2.8	75.0 75.4	75.2	6.4 6.4	6.4	29.7 30.2	30.0	38 38	38.0
20-Mar-23	Sunny	Calm	08:03	Middle	0.1	22.8 22.7	22.8	7.2 7.2	7.2	7.3 7.3	7.3	73.6 72.6	73.1	6.1 6.0	6.1	17.1 17.5	17.3	40 33	36.5
22-Mar-23	Cloudy	Calm	11:18	Middle	0.1	24.1 24.1	24.1	7.5 7.5	7.5	7.9 7.9	7.9	67.7 68.3	68.0	5.4 5.5	5.5	32.2 35.1	33.7	33 34	33.5
24-Mar-23	Cloudy	Calm	10:59	Middle	0.2	25.0 25.0	25.0	6.6 6.6	6.6	3.3 3.3	3.3	68.2 67.9	68.1	5.5 5.5	5.5	32.5 31.6	32.1	36 34	35.0
27-Mar-23	Cloudy	Calm	10:39	Middle	0.1	21.5 21.5	21.5	7.3 7.3	7.3	0.4 0.4	0.4	61.4 61.2	61.3	5.4 5.4	5.4	34.5 34.6	34.6	28 28	28.0
29-Mar-23	Cloudy	Calm	11:02	Middle	0.1	21.4 21.3	21.4	7.0 7.0	7.0	3.1 3.1	3.1	61.6 62.9	62.3	5.4 5.5	5.5	22.4 22.0	22.2	23 20	21.5
31-Mar-23	Cloudy	Calm	09:37	Middle	0.1	22.4 22.4	22.4	7.2 7.2	7.2	5.9 5.9	5.9	64.9 64.3	64.6	5.5 5.4	5.5	11.5 11.5	11.5	20 19	19.5

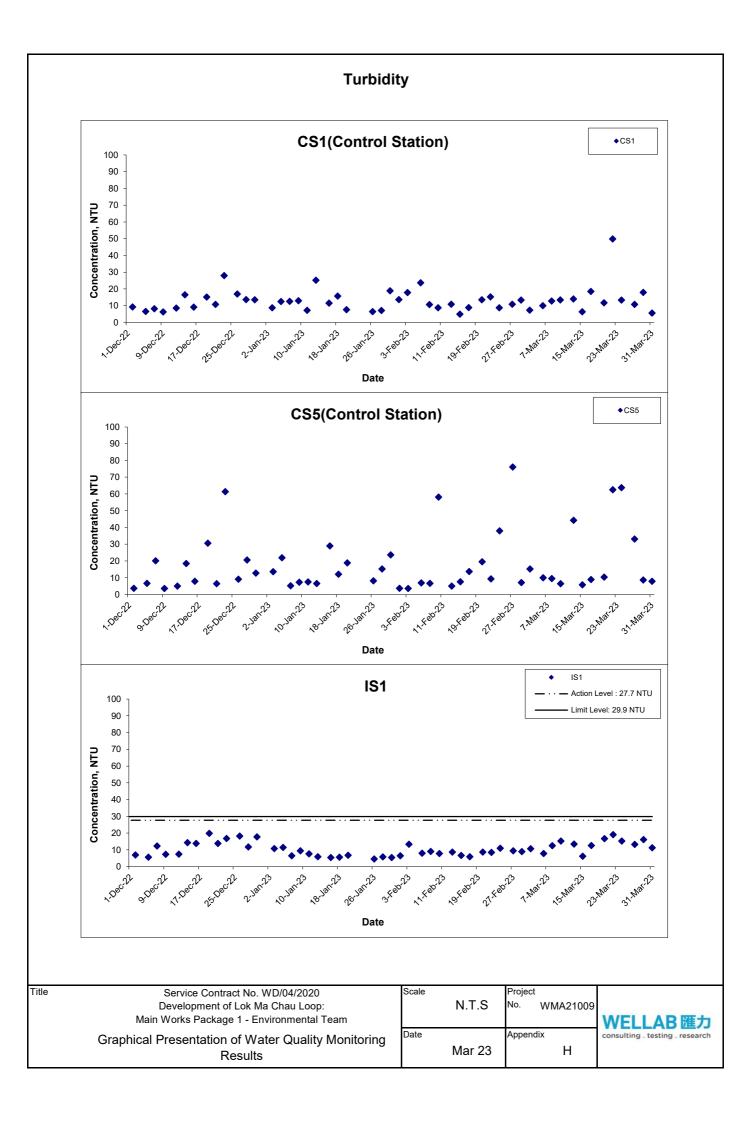
#### Water Quality Monitoring Results at IS4

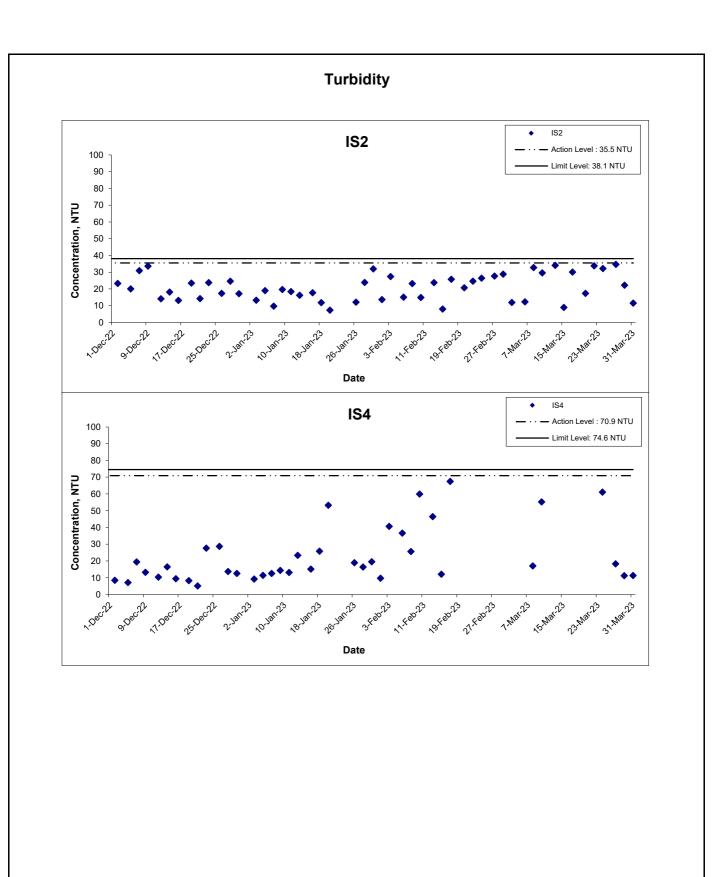
Date	Weather	Sea	Sampling	Dent	:h (m)	Tempera	ature (°C)	p	Η	Salin	ity ppt	DO Satu	ration (%)	Dissolved O	xygen (mg/L)	Turbid	ity(NTU)	Suspended	Solids (mg/L)
Date	Condition	Condition**	Time	Бсрі		Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average	Value	Average
8-Mar-23	Sunnv	Calm	12:33	Middle	0.1	20.5	20.5	7.4	7.4	1.4	1.4	87.5	87.4	7.8	7.8	17.0	17.0	14	14.5
0-1viai-23	Sunny	Califi	12.00	Midule	0.1	20.5	20.5	7.4	7.4	1.4	1.4	87.2	07.4	7.8	7.0	16.9	17.0	15	14.5
10-Mar-23	Sunnv	Calm	09:28	Middle	0.1	19.3	19.3	6.6	6.6	2.4	2.4	46.0	45.9	4.2	4.2	55.9	55.2	33	31.5
10-10101-20	Ounny	Gaini	05.20	Middle	0.1	19.3	15.5	6.6	0.0	2.4	2.4	45.8	40.0	4.2	7.2	54.5	55.2	30	01.0
24-Mar-23	Cloudy	Calm	11:36	Middle	0.1	25.4	25.4	6.5	6.5	0.8	0.8	76.4	76.4	6.2	6.2	60.9	61.0	56	51.5
24-IVIAI-23	Cioudy	Califi	11.50	Midule	0.1	25.4	23.4	6.5	0.5	0.8	0.0	76.3	70.4	6.2	0.2	61.1	01.0	47	51.5
27-Mar-23	Cloudy	Calm	10:54	Middle	0.2	20.2	20.2	7.3	7.3	0.3	0.3	50.8	50.8	4.6	4.6	18.3	18.3	9	9.5
27-IVIAI-23	Cioudy	Califi	10.54	Midule	0.2	20.2	20.2	7.3	7.5	0.3	0.5	50.7	50.0	4.6	4.0	18.3	10.5	10	9.0
29-Mar-23	Cloudy	Calm	11:59	Middle	0.1	20.2	20.2	6.8	6.8	0.3	0.3	46.6	46.9	4.2	4.3	11.2	11.2	19	20.0
29-IVIAI-23	Cibudy	Califi	11.59	Midule	0.1	20.2	20.2	6.8	0.0	0.3	0.5	47.2	40.9	4.3	4.5	11.2	11.2	21	20.0
31-Mar-23	Cloudy	Calm	10:07	Middle	0.2	20.9	20.9	7.3	7.3	0.3	0.3	48.3	48.8	4.3	4.4	11.3	11.3	42	44.5
51-IVIAI-25	Cioudy	Calm	10.07	windle	0.2	20.9	20.9	7.3	1.5	0.3	0.5	49.2	40.0	4.4	4.4	11.3	11.5	47	44.0



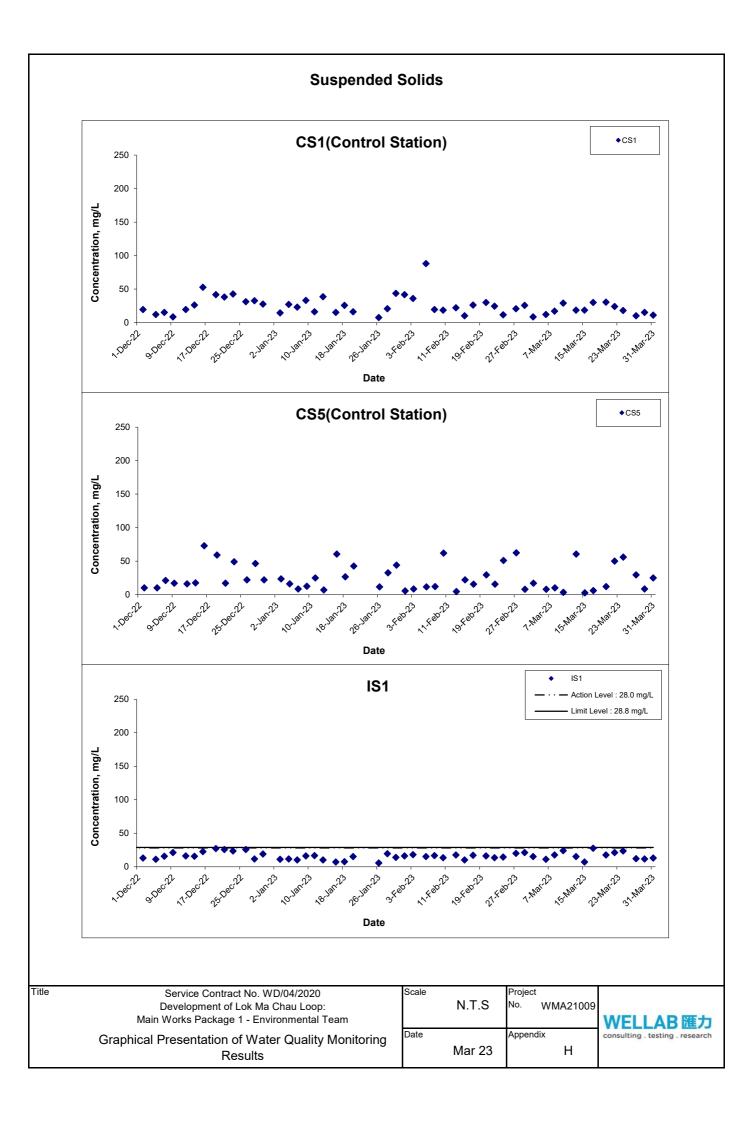


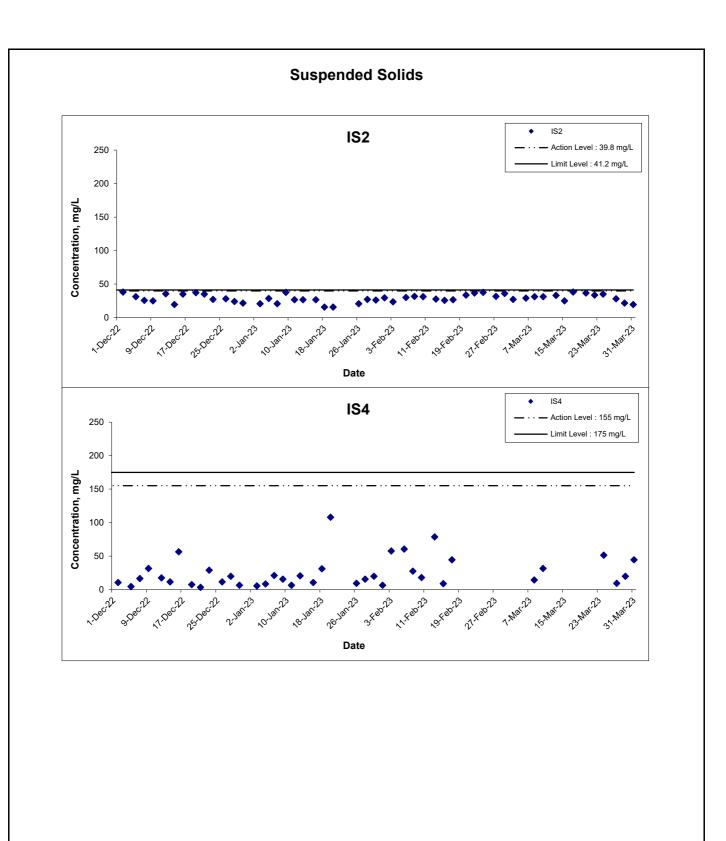
Title	Service Contract No. WD/04/2020	Scale		Project		
	Development of Lok Ma Chau Loop:		N.T.S	No.	WMA21009	and the second
	Main Works Package 1 - Environmental Team					WELLAB 匯力
	Graphical Presentation of Water Quality Monitoring	Date		Append	xib	consulting . testing . research
	Results		Mar 23		Н	





Title	Service Contract No. WD/04/2020	Scale		Project	t	
	Development of Lok Ma Chau Loop:		N.T.S	No.	WMA21009	
	Main Works Package 1 - Environmental Team					WELLAB <b>匯</b> 力
	Graphical Presentation of Water Quality Monitoring			Append		consulting . testing . research
	Results		Mar 23		Н	





Т	itle 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 <b>匯</b> 力
	Graphical Presentation of Water Quality Monitoring			Append	lix	consulting . testing . research
	Results		Mar 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 March 2023	19.7	71	-
2 March 2023	19.8	70	-
3 March 2023	18.6	56	-
4 March 2023	19.6	65	-
5 March 2023	19.7	57	-
6 March 2023	20	50	-
7 March 2023	20.1	56	-
8 March 2023	21.6	77	-
9 March 2023	22.5	75	-
10 March 2023	22.4	68	-
11 March 2023	22.1	67	-
12 March 2023	22.6	71	0.1
13 March 2023	20.1	64	Trace
14 March 2023	19.7	73	-
15 March 2023	21	77	-
16 March 2023	22	72	Trace

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

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

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

Date	Time	Wind Speed m/s	Direction
1-Mar-2023	00:00	0.0	W
1-Mar-2023	01:00	0.0	W
1-Mar-2023	02:00	0.0	W
1-Mar-2023	03:00	0.0	WNW
1-Mar-2023	04:00	0.0	
1-Mar-2023	05:00	0.0	WNW
1-Mar-2023	06:00	0.0	WNW
1-Mar-2023	07:00	0.0	
1-Mar-2023	08:00	0.0	NW
1-Mar-2023	09:00	0.0	SW
1-Mar-2023	10:00	0.0	SSW
1	11:00	0.0	SSW
1-Mar-2023			
1-Mar-2023	12:00	0.0	E
1-Mar-2023	13:00	0.0	SW
1-Mar-2023	14:00	0.4	ENE
1-Mar-2023	15:00	0.4	E
1-Mar-2023	16:00	0.9	ENE
1-Mar-2023	17:00	0.9	ENE
1-Mar-2023	18:00	0.4	ENE
1-Mar-2023	19:00	0.0	
1-Mar-2023	20:00	0.0	
1-Mar-2023	21:00	0.0	
1-Mar-2023	22:00	0.0	
1-Mar-2023	23:00	0.0	
2-Mar-2023	00:00	0.0	
2-Mar-2023	01:00	0.0	
2-Mar-2023	02:00	0.0	
2-Mar-2023	03:00	0.0	
2-Mar-2023	04:00	0.0	WNW
2-Mar-2023	05:00	0.4	W
2-Mar-2023	06:00	0.4	WSW
2-Mar-2023	07:00	0.4	WSW
2-Mar-2023	08:00	0.4	WSW
2-Mar-2023	09:00	0.4	WSW
2-Mar-2023	10:00	0.4	WSW
			SSW
2-Mar-2023	11:00	0.0	
2-Mar-2023	12:00	0.0	SSW
2-Mar-2023	13:00	0.0	WSW
2-Mar-2023	14:00	0.0	SW
2-Mar-2023	15:00	0.0	W
2-Mar-2023	16:00	0.9	ENE
2-Mar-2023	17:00	0.0	NW
2-Mar-2023	18:00	0.9	WSW
2-Mar-2023	19:00	0.4	W
2-Mar-2023	20:00	0.9	WSW
2-Mar-2023	21:00	0.4	WSW
2-Mar-2023	22:00	0.4	WSW
2-Mar-2023	23:00	0.4	WSW
3-Mar-2023	00:00	0.4	WSW
3-Mar-2023	01:00	0.9	WSW
3-Mar-2023	02:00	0.9	WSW
3-Mar-2023	03:00	0.4	WSW
3-Mar-2023	03:00	0.0	WSW
3-Mar-2023	05:00	0.0	WSW
0-1VIAI-2020	00.00	0.0	**0**

Date	Time	Wind Speed m/s	Direction
3-Mar-2023	07:00	0.4	WSW
3-Mar-2023	08:00	0.0	WSW
3-Mar-2023	09:00	0.4	WSW
3-Mar-2023	10:00	0.4	WSW
3-Mar-2023	11:00	0.4	WSW
3-Mar-2023	12:00	0.4	W
3-Mar-2023	13:00	0.4	WSW
3-Mar-2023	14:00	0.4	WNW
3-Mar-2023	15:00	0.0	WNW
3-Mar-2023	16:00	0.9	ENE
		0.9	E
3-Mar-2023	17:00		
3-Mar-2023	18:00	0.0	E
3-Mar-2023	19:00	0.0	WNW
3-Mar-2023	20:00	0.0	W
3-Mar-2023	21:00	0.0	WNW
3-Mar-2023	22:00	0.0	WNW
3-Mar-2023	23:00	0.0	WSW
4-Mar-2023	00:00	0.0	WSW
4-Mar-2023	01:00	0.0	WSW
4-Mar-2023	02:00	0.0	WSW
4-Mar-2023	03:00	0.0	WSW
4-Mar-2023	04:00	0.0	WSW
4-Mar-2023	05:00	0.4	WSW
4-Mar-2023	06:00	0.0	WSW
4-Mar-2023	07:00	0.4	WSW
4-Mar-2023	08:00	0.4	WSW
4-Mar-2023	09:00	0.4	WSW
			WSW
4-Mar-2023	10:00	0.0	
4-Mar-2023	11:00	0.0	WSW
4-Mar-2023	12:00	0.4	WSW
4-Mar-2023	13:00	0.4	SSW
4-Mar-2023	14:00	0.4	WSW
4-Mar-2023	15:00	0.0	WSW
4-Mar-2023	16:00	0.0	WSW
4-Mar-2023	17:00	0.4	ENE
4-Mar-2023	18:00	0.0	ENE
4-Mar-2023	19:00	0.0	NNE
4-Mar-2023	20:00	0.0	WSW
4-Mar-2023	21:00	0.0	WSW
4-Mar-2023	22:00	0.0	WSW
4-Mar-2023	23:00	0.0	WSW
5-Mar-2023	00:00	0.4	WSW
5-Mar-2023	01:00	0.9	WSW
5-Mar-2023	02:00	0.9	WSW
5-Mar-2023	03:00	0.9	WSW
5-Mar-2023	03:00	0.0	WSW
5-Mar-2023	05:00	0.0	WSW
5-Mar-2023	06:00	0.0	
5-Mar-2023	07:00	0.0	WSW
5-Mar-2023	08:00	0.0	WSW
5-Mar-2023	09:00	0.0	WSW
5-Mar-2023	10:00	0.4	WSW
5-Mar-2023	11:00	0.0	WNW
5-Mar-2023	12:00	0.4	NW
5-Mar-2023	13:00	0.4	NW

Date	Time	Wind Speed m/s	Direction
5-Mar-2023	14:00	0.4	WSW
5-Mar-2023	15:00	0.4	NW
5-Mar-2023	16:00	0.9	NW
5-Mar-2023	17:00	0.4	WNW
5-Mar-2023	18:00	0.4	NW
5-Mar-2023	19:00	0.0	WNW
5-Mar-2023	20:00	0.0	NW
5-Mar-2023	21:00	0.0	WNW
5-Mar-2023	22:00	0.0	WSW
5-Mar-2023	23:00	0.0	WSW
6-Mar-2023	00:00	0.0	WSW
6-Mar-2023	01:00	0.0	WSW
6-Mar-2023	02:00	0.4	WSW
	02:00	0.4	WSW
6-Mar-2023	03.00	0.0	W
6-Mar-2023			
6-Mar-2023	05:00	0.0	W
6-Mar-2023	06:00	0.9	W
6-Mar-2023	07:00	0.9	W
6-Mar-2023	08:00	0.4	WSW
6-Mar-2023	09:00	0.9	WSW
6-Mar-2023	10:00	0.4	WSW
6-Mar-2023	11:00	0.4	WSW
6-Mar-2023	12:00	0.4	WSW
6-Mar-2023	13:00	0.4	WSW
6-Mar-2023	14:00	0.9	WNW
6-Mar-2023	15:00	0.9	WSW
6-Mar-2023	16:00	0.9	WSW
6-Mar-2023	17:00	0.4	NNW
6-Mar-2023	18:00	0.0	WNW
6-Mar-2023	19:00	0.0	WSW
6-Mar-2023	20:00	0.0	WSW
6-Mar-2023	21:00	0.4	WSW
6-Mar-2023	22:00	0.4	WSW
6-Mar-2023	23:00	0.9	WSW
7-Mar-2023	00:00	0.4	WSW
7-Mar-2023	01:00	0.0	WSW
7-Mar-2023	02:00	0.0	WSW
7-Mar-2023 7-Mar-2023	03:00 04:00	0.0	
7-Mar-2023	05:00	0.0	
7-Mar-2023	06:00	0.0	WNW
7-Mar-2023	07:00	0.0	WNW
7-Mar-2023	08:00	0.0	WSW
7-Mar-2023	09:00	0.4	WSW
7-Mar-2023	10:00	0.4	WSW
7-Mar-2023	11:00	0.4	WSW
7-Mar-2023	12:00	0.4	NW
7-Mar-2023	13:00	0.4	NNW
7-Mar-2023	14:00	0.4	WSW
7-Mar-2023	15:00	0.4	WSW
7-Mar-2023	16:00	0.4	WSW
7-Mar-2023	17:00	0.9	WSW
7-Mar-2023	18:00	0.4	WSW
7-Mar-2023	19:00	0.0	W
7-Mar-2023	20:00	0.0	W

Date	Time	Wind Speed m/s	Direction
7-Mar-2023	21:00	0.0	WSW
7-Mar-2023	22:00	0.0	WSW
7-Mar-2023	23:00	0.0	WSW
8-Mar-2023	00:00	0.0	W
8-Mar-2023	01:00	0.0	SW
8-Mar-2023	02:00	0.0	
8-Mar-2023	03:00	0.0	
8-Mar-2023	04:00	0.0	
8-Mar-2023	05:00	0.0	WSW
8-Mar-2023	06:00	0.0	WNW
8-Mar-2023	07:00	0.0	
8-Mar-2023	08:00	0.4	WNW
8-Mar-2023	09:00	0.0	SW
8-Mar-2023	10:00	0.0	WSW
8-Mar-2023	11:00	0.0	ESE
8-Mar-2023	12:00	0.0	S
8-Mar-2023	13:00	0.9	ENE
8-Mar-2023	14:00	0.9	ENE
8-Mar-2023	15:00	0.9	ENE
8-Mar-2023	16:00	0.9	ENE
8-Mar-2023	17:00	0.4	ENE
8-Mar-2023	18:00	0.4	ENE
8-Mar-2023	19:00	0.0	E
8-Mar-2023	20:00	0.0	
8-Mar-2023	21:00	0.0	
8-Mar-2023	22:00	0.0	WNW
8-Mar-2023	23:00	0.4	WNW
9-Mar-2023	00:00	0.0	NW
9-Mar-2023	01:00	0.0	
9-Mar-2023	02:00	0.0	
9-Mar-2023	03:00	0.0	
9-Mar-2023	03:00	0.0	
9-Mar-2023	05:00	0.0	
9-Mar-2023	06:00	0.0	
9-Mar-2023	07:00	0.0	
9-Mar-2023	08:00	0.0	
9-Mar-2023	09:00	0.0	
9-Mar-2023	10:00	0.0	ENE
9-Mar-2023	11:00	0.0	E
9-Mar-2023	12:00	0.0	E
9-Mar-2023	13:00	0.0	ENE
9-Mar-2023	14:00	0.4	E
9-Mar-2023	15:00	0.0	E
9-Mar-2023	16:00	0.0	E
9-Mar-2023	17:00	0.0	WNW
9-Mar-2023	18:00	0.0	WNW
9-Mar-2023	19:00	0.0	WNW
9-Mar-2023	20:00	0.0	WNW
9-Mar-2023	21:00	0.0	WNW
9-Mar-2023	22:00	0.0	WNW
9-Mar-2023	23:00	0.0	WNW
10-Mar-2023	00:00	0.0	W
			W
10-Mar-2023	01:00	0.0	
10-Mar-2023	02:00	0.0	W
10-Mar-2023	03:00	0.0	W

Date	Time	Wind Speed m/s	Direction
10-Mar-2023	04:00	0.0	WSW
10-Mar-2023	05:00	0.0	W
10-Mar-2023	06:00	0.4	WSW
10-Mar-2023	07:00	0.0	WSW
10-Mar-2023	08:00	0.4	W
10-Mar-2023	09:00	0.4	WSW
10-Mar-2023	10:00	0.4	WSW
10-Mar-2023	11:00	0.9	WSW
10-Mar-2023	12:00	0.9	NW
10-Mar-2023	13:00	0.9	NNW
10-Mar-2023	14:00	0.9	W
10-Mar-2023	15:00	0.9	W
		0.9	WNW
10-Mar-2023	16:00		NW
10-Mar-2023	17:00	0.4	
10-Mar-2023	18:00	0.4	WNW
10-Mar-2023	19:00	0.0	WSW
10-Mar-2023	20:00	0.4	WSW
10-Mar-2023	21:00	0.9	WSW
10-Mar-2023	22:00	0.0	WSW
10-Mar-2023	23:00	0.0	
11-Mar-2023	00:00	0.0	W
11-Mar-2023	01:00	0.4	WSW
11-Mar-2023	02:00	0.4	WSW
11-Mar-2023	03:00	0.0	WSW
11-Mar-2023	04:00	0.0	WSW
11-Mar-2023	05:00	0.0	WSW
11-Mar-2023	06:00	0.0	WNW
11-Mar-2023	07:00	0.0	WNW
11-Mar-2023	08:00	0.0	WSW
11-Mar-2023	09:00	0.4	WSW
11-Mar-2023	10:00	0.4	WSW
11-Mar-2023	11:00	0.4	WSW
11-Mar-2023	12:00	0.9	WSW
11-Mar-2023	13:00	0.9	WSW
11-Mar-2023	14:00	0.9	WSW
11-Mar-2023	15:00	0.4	WNW
11-Mar-2023		0.4	NW
	16:00		
11-Mar-2023	17:00	0.4	NW
11-Mar-2023	18:00	0.4	WSW
11-Mar-2023	19:00	0.4	WSW
11-Mar-2023	20:00	0.0	WSW
11-Mar-2023	21:00	0.0	WNW
11-Mar-2023	22:00	0.0	WNW
11-Mar-2023	23:00	0.0	WNW
12-Mar-2023	00:00	0.0	NW
12-Mar-2023	01:00	0.0	
12-Mar-2023	02:00	0.0	WNW
12-Mar-2023	03:00	0.0	WNW
12-Mar-2023	04:00	0.0	WNW
12-Mar-2023	05:00	0.4	WNW
12-Mar-2023	06:00	0.0	WNW
12-Mar-2023	07:00	0.0	
12-Mar-2023	08:00	0.0	
12-Mar-2023	09:00	0.0	NW
	10:00	0.0	N

Date	Time	Wind Speed m/s	Direction
12-Mar-2023	11:00	0.0	WNW
12-Mar-2023	12:00	0.4	E
12-Mar-2023	13:00	0.0	ENE
12-Mar-2023	14:00	0.0	SSW
12-Mar-2023	15:00	0.4	SW
12-Mar-2023	16:00	0.4	SSW
12-Mar-2023	17:00	0.9	SSW
12-Mar-2023	18:00	0.4	SSW
12-Mar-2023	19:00	0.4	SSW
12-Mar-2023	20:00	0.0	SSW
12-Mar-2023	21:00	0.4	SSW
12-Mar-2020	22:00	0.4	SSW
12-Mar-2023	23:00	0.4	SW
13-Mar-2023	00:00	0.4	SW
13-Mar-2023	01:00	0.4	WSW
13-Mar-2023	02:00	0.4	SW
13-Mar-2023	03:00	0.4	WSW
13-Mar-2023	04:00	0.4	WSW
13-Mar-2023	05:00	0.4	WSW
13-Mar-2023	06:00	0.4	WSW
13-Mar-2023	07:00	0.0	WSW
13-Mar-2023	08:00	0.4	WSW
13-Mar-2023	09:00	0.4	WSW
13-Mar-2023	10:00	0.4	WSW
13-Mar-2023	11:00	0.0	WSW
13-Mar-2023	12:00	0.0	WSW
13-Mar-2023	13:00	0.4	WSW
13-Mar-2023	14:00	0.0	WSW
13-Mar-2023	15:00	0.0	SSW
13-Mar-2023	16:00	0.0	ENE
13-Mar-2023	17:00	0.4	ENE
13-Mar-2023	18:00	0.0	ENE
13-Mar-2023	19:00	0.0	
13-Mar-2023	20:00	0.0	NW
13-Mar-2023	21:00	0.4	WNW
13-Mar-2023	22:00	0.0	W
13-Mar-2023	23:00	0.0	
14-Mar-2023	00:00	0.0	W
14-Mar-2023	01:00	0.0	W
14-Mar-2023	02:00	0.0	W
14-Mar-2023	03:00	0.0	WSW
14-Mar-2023	03:00	0.0	WSW
14-Mar-2023	05:00	0.0	WSW
14-Mar-2023	06:00	0.0	WSW
14-Mar-2023	07:00	0.0	WSW
14-Mar-2023	07:00	0.0	WSW
14-Mar-2023	09:00	0.4	WSW
		0.4	NW
14-Mar-2023	10:00	-	WSW
14-Mar-2023	11:00	0.4	
14-Mar-2023	12:00	0.4	NW
14-Mar-2023	13:00	0.9	NW
14-Mar-2023	14:00	0.4	NW
14-Mar-2023	15:00	0.0	WSW
14-Mar-2023	16:00	0.0	ENE
14-Mar-2023	17:00	0.9	NW

Date	Time	Wind Speed m/s	Direction
14-Mar-2023	18:00	0.0	NW
14-Mar-2023	19:00	0.0	W
14-Mar-2023	20:00	0.0	WNW
14-Mar-2023	21:00	0.0	NW
14-Mar-2023	22:00	0.0	WSW
14-Mar-2023	23:00	0.0	WSW
15-Mar-2023	00:00	0.0	WSW
15-Mar-2023	01:00	0.0	WSW
15-Mar-2023	02:00	0.0	WSW
15-Mar-2023	03:00	0.0	W
15-Mar-2023	03:00	0.0	W
15-Mar-2023	04:00	0.0	W
		0.4	NW
15-Mar-2023	06:00		WSW
15-Mar-2023	07:00	0.0	
15-Mar-2023	08:00	0.4	WSW
15-Mar-2023	09:00	0.4	WSW
15-Mar-2023	10:00	0.4	WSW
15-Mar-2023	11:00	0.4	SSW
15-Mar-2023	12:00	0.0	SSW
15-Mar-2023	13:00	0.0	WNW
15-Mar-2023	14:00	0.0	SSW
15-Mar-2023	15:00	0.4	E
15-Mar-2023	16:00	1.3	ENE
15-Mar-2023	17:00	1.3	ENE
15-Mar-2023	18:00	0.4	E
15-Mar-2023	19:00	0.0	E
15-Mar-2023	20:00	0.0	
15-Mar-2023	21:00	0.0	
15-Mar-2023	22:00	0.0	
15-Mar-2023	23:00	0.0	SW
16-Mar-2023	00:00	0.0	WNW
16-Mar-2023	01:00	0.0	
16-Mar-2023	02:00	0.0	W
16-Mar-2023	03:00	0.0	WNW
16-Mar-2023	04:00	0.0	WNW
16-Mar-2023	05:00	0.0	WNW
16-Mar-2023	06:00	0.0	WNW
16-Mar-2023	07:00	0.0	NW
16-Mar-2023	07:00	0.0	NW
16-Mar-2023	09:00	0.0	
16-Mar-2023	10:00	0.0	WSW
16-Mar-2023	11:00	0.9	WSW
16-Mar-2023	12:00	0.9	WSW
			WSW
16-Mar-2023	13:00	0.9	WNW
16-Mar-2023	14:00	0.9	
16-Mar-2023	15:00	0.4	WSW
16-Mar-2023	16:00	0.4	WSW
16-Mar-2023	17:00	0.4	WNW
16-Mar-2023	18:00	0.4	W
16-Mar-2023	19:00	0.0	WSW
16-Mar-2023	20:00	0.4	WSW
16-Mar-2023	21:00	0.0	WSW
16-Mar-2023	22:00	0.0	WSW
16-Mar-2023	23:00	0.0	WSW
17-Mar-2023	00:00	0.0	WSW

Date	Time	Wind Speed m/s	Direction
17-Mar-2023	01:00	0.0	WSW
17-Mar-2023	02:00	0.0	WSW
17-Mar-2023	03:00	0.4	WSW
17-Mar-2023	04:00	0.4	WSW
17-Mar-2023	05:00	0.4	WSW
17-Mar-2023	06:00	0.4	WSW
17-Mar-2023	07:00	0.0	WSW
17-Mar-2023	08:00	0.4	WSW
17-Mar-2023	09:00	0.4	WSW
17-Mar-2023	10:00	0.4	WSW
		0.4	WSW
17-Mar-2023	11:00		WSW
17-Mar-2023	12:00	0.4	
17-Mar-2023	13:00	0.0	WSW
17-Mar-2023	14:00	0.0	W
17-Mar-2023	15:00	0.4	ENE
17-Mar-2023	16:00	0.9	ENE
17-Mar-2023	17:00	0.4	ENE
17-Mar-2023	18:00	0.0	E
17-Mar-2023	19:00	0.4	WNW
17-Mar-2023	20:00	0.0	WNW
17-Mar-2023	21:00	0.0	WNW
17-Mar-2023	22:00	0.0	W
17-Mar-2023	23:00	0.0	WSW
18-Mar-2023	00:00	0.0	WNW
18-Mar-2023	01:00	0.0	WSW
18-Mar-2023	02:00	0.0	WSW
18-Mar-2023	03:00	0.0	WSW
18-Mar-2023	04:00	0.0	
18-Mar-2023	05:00	0.0	
18-Mar-2023	06:00	0.0	
18-Mar-2023	07:00	0.0	
18-Mar-2023	08:00	0.0	
18-Mar-2023	09:00	0.0	
18-Mar-2023	10:00	0.0	
18-Mar-2023	11:00	0.0	ENE
18-Mar-2023	12:00	0.4	E
18-Mar-2023	13:00	0.4	E
	13:00		E E
18-Mar-2023		0.9	
18-Mar-2023	15:00	0.4	WSW
18-Mar-2023	16:00	0.4	WSW
18-Mar-2023	17:00	0.4	WSW
18-Mar-2023	18:00	0.9	WSW
18-Mar-2023	19:00	0.4	WSW
18-Mar-2023	20:00	0.4	WSW
18-Mar-2023	21:00	0.9	WSW
18-Mar-2023	22:00	0.9	WSW
18-Mar-2023	23:00	0.4	WSW
19-Mar-2023	00:00	0.4	WSW
19-Mar-2023	01:00	0.4	WSW
19-Mar-2023	02:00	0.4	W
19-Mar-2023	03:00	0.4	WSW
19-Mar-2023	04:00	1.3	WSW
19-Mar-2023	05:00	0.9	WSW
19-Mar-2023	06:00	1.3	WSW
19-Mar-2023	07:00	1.3	WSW

Date	Time	Wind Speed m/s	Direction
19-Mar-2023	08:00	1.3	WSW
19-Mar-2023	09:00	0.9	WSW
19-Mar-2023	10:00	0.9	WSW
19-Mar-2023	11:00	0.4	WSW
19-Mar-2023	12:00	1.3	WSW
19-Mar-2023	13:00	0.9	WSW
19-Mar-2023	14:00	0.9	WSW
19-Mar-2023	15:00	0.4	WNW
19-Mar-2023	16:00	0.4	NW
		-	
19-Mar-2023	17:00	0.4	WSW
19-Mar-2023	18:00	0.4	WSW
19-Mar-2023	19:00	0.4	WSW
19-Mar-2023	20:00	0.0	WSW
19-Mar-2023	21:00	0.4	WSW
19-Mar-2023	22:00	0.0	WSW
19-Mar-2023	23:00	0.4	WSW
20-Mar-2023	00:00	0.4	WSW
20-Mar-2023	01:00	0.4	WSW
20-Mar-2023	02:00	0.9	WSW
20-Mar-2023	03:00	0.4	WSW
20-Mar-2023	04:00	0.4	WSW
20-Mar-2023	05:00	0.4	WSW
20-Mar-2023	06:00	0.4	WSW
20-Mar-2023	07:00	0.4	WSW
20-Mar-2023	08:00	0.4	WSW
20-Mar-2023	09:00	0.4	WSW
20-Mar-2023	10:00	0.9	WSW
			WSW
20-Mar-2023	11:00	0.4	
20-Mar-2023	12:00	1.3	WSW
20-Mar-2023	13:00	1.3	WSW
20-Mar-2023	14:00	0.4	WSW
20-Mar-2023	15:00	0.4	WNW
20-Mar-2023	16:00	0.4	WSW
20-Mar-2023	17:00	0.4	WSW
20-Mar-2023	18:00	0.4	NW
20-Mar-2023	19:00	0.0	WNW
20-Mar-2023	20:00	0.0	W
20-Mar-2023	21:00	0.0	WNW
20-Mar-2023	22:00	0.0	WNW
20-Mar-2023	23:00	0.0	WNW
21-Mar-2023	00:00	0.0	NW
21-Mar-2023	01:00	0.0	
21-Mar-2023	02:00	0.0	WNW
21-Mar-2023	03:00	0.0	WNW
21-Mar-2023	03:00	0.0	NW
21-Mar-2023	05:00	0.0	WNW
	05:00	0.0	WNW
21-Mar-2023			
21-Mar-2023	07:00	0.0	WNW
21-Mar-2023	08:00	0.0	WSW
21-Mar-2023	09:00	0.0	WNW
21-Mar-2023	10:00	0.0	NW
21-Mar-2023	11:00	0.4	ENE
21-Mar-2023	12:00	0.4	ENE
21-Mar-2023	13:00	0.4	ENE
21-Mar-2023	14:00	0.4	NE

Date	Time	Wind Speed m/s	Direction
21-Mar-2023	15:00	0.0	ENE
21-Mar-2023	16:00	0.0	ENE
21-Mar-2023	17:00	0.0	NE
21-Mar-2023	18:00	0.0	NNW
21-Mar-2023	19:00	0.0	ENE
21-Mar-2023	20:00	0.0	ENE
21-Mar-2023	21:00	0.0	NE
21-Mar-2023	22:00	0.0	ENE
21-Mar-2023	23:00	0.0	ENE
22-Mar-2023	00:00	0.4	ENE
22-Mar-2023	01:00	0.4	ENE
		-	
22-Mar-2023	02:00	0.0	ENE
22-Mar-2023	03:00	0.0	ENE
22-Mar-2023	04:00	0.0	ENE
22-Mar-2023	05:00	0.0	ENE
22-Mar-2023	06:00	0.0	ENE
22-Mar-2023	07:00	0.0	E
22-Mar-2023	08:00	0.0	ENE
22-Mar-2023	09:00	0.4	ENE
22-Mar-2023	10:00	0.4	ENE
22-Mar-2023	11:00	0.0	ENE
22-Mar-2023	12:00	0.0	ENE
22-Mar-2023	13:00	0.0	ENE
22-Mar-2023	14:00	0.0	NE
22-Mar-2023	15:00	0.0	ENE
22-Mar-2023	16:00	0.0	ENE
22-Mar-2023	17:00	0.0	ENE
22-Mar-2023	18:00	0.0	ENE
22-Mar-2023	19:00	0.0	NE
22-Mar-2023	20:00	0.0	ENE
22-Mar-2023	21:00	0.0	ENE
22-Mar-2023	22:00	0.0	ENE
			ENE
22-Mar-2023	23:00	0.0	
23-Mar-2023	00:00	0.0	ENE
23-Mar-2023	01:00	0.0	E
23-Mar-2023	02:00	0.0	ENE
23-Mar-2023	03:00	0.0	NNW
23-Mar-2023	04:00	0.0	NE
23-Mar-2023	05:00	0.0	
23-Mar-2023	06:00	0.0	NE
23-Mar-2023	07:00	0.0	ENE
23-Mar-2023	08:00	0.0	ENE
23-Mar-2023	09:00	0.0	ENE
23-Mar-2023	10:00	0.4	NE
23-Mar-2023	11:00	0.4	ENE
23-Mar-2023	12:00	0.4	ENE
23-Mar-2023	13:00	0.4	ENE
23-Mar-2023	14:00	0.9	ENE
23-Mar-2023	15:00	0.4	ENE
23-Mar-2023	16:00	0.0	ENE
23-Mar-2023	17:00	0.4	ENE
23-Mar-2023	18:00	0.0	ENE
			NE
23-Mar-2023	19:00	0.0	
23-Mar-2023	20:00	0.0	NNW
23-Mar-2023	21:00	0.0	ENE

Date	Time	Wind Speed m/s	Direction
23-Mar-2023	22:00	0.0	NE
23-Mar-2023	23:00	0.0	NW
24-Mar-2023	00:00	0.0	WNW
24-Mar-2023	01:00	0.0	NNW
24-Mar-2023	02:00	0.0	NNE
24-Mar-2023	03:00	0.0	NW
24-Mar-2023	04:00	0.0	WNW
24-Mar-2023	05:00	0.0	NW
24-Mar-2023	06:00	0.0	WNW
24-Mar-2023	07:00	0.0	NW
24-Mar-2023	07:00	0.0	
24-Mar-2023	09:00	0.0	WNW E
24-Mar-2023	10:00	0.0	
24-Mar-2023	11:00	0.4	WSW
24-Mar-2023	12:00	0.0	WSW
24-Mar-2023	13:00	0.0	WNW
24-Mar-2023	14:00	0.4	WNW
24-Mar-2023	15:00	0.4	ENE
24-Mar-2023	16:00	0.4	NE
24-Mar-2023	17:00	0.0	ENE
24-Mar-2023	18:00	0.0	NW
24-Mar-2023	19:00	0.0	W
24-Mar-2023	20:00	0.0	W
24-Mar-2023	21:00	0.0	WNW
24-Mar-2023	22:00	0.0	W
24-Mar-2023	23:00	0.0	W
25-Mar-2023	00:00	0.0	WNW
25-Mar-2023	01:00	0.0	WNW
25-Mar-2023	02:00	0.0	WNW
25-Mar-2023	03:00	0.9	NW
25-Mar-2023	04:00	0.0	NW
25-Mar-2023	05:00	0.0	WNW
25-Mar-2023	06:00	0.0	WNW
25-Mar-2023	07:00	0.0	WSW
25-Mar-2023	08:00	0.0	WSW
25-Mar-2023		0.4	WSW
25-Mar-2023	09:00 10:00	0.4	WSW
			WSW
25-Mar-2023 25-Mar-2023	11:00	0.9	WSW
	12:00	0.9	
25-Mar-2023	13:00	0.4	WSW
25-Mar-2023	14:00	0.4	WNW
25-Mar-2023	15:00	0.0	WNW
25-Mar-2023	16:00	0.0	WSW
25-Mar-2023	17:00	0.9	WSW
25-Mar-2023	18:00	0.9	WSW
25-Mar-2023	19:00	0.4	W
25-Mar-2023	20:00	0.4	WSW
25-Mar-2023	21:00	0.9	WSW
25-Mar-2023	22:00	0.4	NW
25-Mar-2023	23:00	0.0	WSW
26-Mar-2023	00:00	0.0	WSW
26-Mar-2023	01:00	0.9	W
26-Mar-2023	02:00	0.4	WSW
26-Mar-2023	03:00	0.4	WSW
26-Mar-2023	04:00	0.0	WSW

# Appendix I - Wind Data

Date	Time	Wind Speed m/s	Direction
26-Mar-2023	05:00	0.0	W
26-Mar-2023	06:00	0.4	WSW
26-Mar-2023	07:00	0.0	WSW
26-Mar-2023	08:00	0.4	WSW
26-Mar-2023	09:00	0.4	WNW
26-Mar-2023	10:00	0.4	WNW
26-Mar-2023	11:00	0.0	
26-Mar-2023	12:00	0.0	WSW
26-Mar-2023	13:00	0.0	WSW
26-Mar-2023	14:00	0.0	WSW
26-Mar-2023	15:00	0.0	WSW
26-Mar-2023	16:00	0.0	WSW
26-Mar-2023	17:00	0.0	WSW
26-Mar-2023	18:00	0.0	WSW
26-Mar-2023	19:00	0.0	SSW
26-Mar-2023	20:00	0.0	SW
26-Mar-2023	21:00	0.0	W
26-Mar-2023	22:00	0.0	WSW
26-Mar-2023	23:00	0.0	WSW
27-Mar-2023	00:00	0.0	WSW
27-Mar-2023	01:00	0.0	WSW
27-Mar-2023	02:00	0.0	WSW
27-Mar-2023	03:00	0.0	WSW
27-Mar-2023	04:00	0.0	WSW
27-Mar-2023	05:00	0.4	WSW
27-Mar-2023	06:00	0.0	WSW
27-Mar-2023	07:00	0.0	WSW
27-Mar-2023	08:00	0.9	WSW
27-Mar-2023	09:00	0.4	WSW
27-Mar-2023	10:00	0.9	WSW
27-Mar-2023	11:00	0.9	WSW
27-Mar-2023	12:00	0.4	WSW
27-Mar-2023	13:00	0.4	WSW
27-Mar-2023	14:00	0.0	WSW
27-Mar-2023	15:00	0.0	WSW
27-Mar-2023	16:00	0.0	WSW
27-Mar-2023	17:00	0.0	WSW
27-Mar-2023	18:00	0.0	WSW
27-Mar-2023	19:00	0.0	WSW
27-Mar-2023	20:00	0.4	WSW
27-Mar-2023	21:00	0.0	WSW
27-Mar-2023	22:00	0.4	WSW
27-Mar-2023	23:00	0.0	SW

# Appendix I - Wind Data

Date	Time	Wind Speed m/s	Direction
28-Mar-2023	00:00	0.0	SSW
28-Mar-2023	01:00	0.0	WSW
28-Mar-2023	02:00	0.0	WSW
28-Mar-2023	03:00	0.0	WSW
28-Mar-2023	04:00	0.0	WSW
28-Mar-2023	05:00	0.0	WSW
28-Mar-2023	06:00	0.0	WSW
28-Mar-2023	07:00	0.0	WSW
28-Mar-2023	08:00	0.0	WSW
28-Mar-2023	09:00	0.4	WSW
		0.4	WSW
28-Mar-2023	10:00		
28-Mar-2023	11:00	0.4	WSW
28-Mar-2023	12:00	0.4	WSW
28-Mar-2023	13:00	0.4	WSW
28-Mar-2023	14:00	0.0	WSW
28-Mar-2023	15:00	0.4	WSW
28-Mar-2023	16:00	0.0	WSW
28-Mar-2023	17:00	0.0	W
28-Mar-2023	18:00	0.0	WSW
28-Mar-2023	19:00	0.0	W
28-Mar-2023	20:00	0.0	WSW
28-Mar-2023	21:00	0.0	WSW
28-Mar-2023	22:00	0.0	WSW
28-Mar-2023	23:00	0.0	WSW
29-Mar-2023	00:00	0.0	
29-Mar-2023	01:00	0.0	WSW
29-Mar-2023	02:00	0.0	WSW
			WSW
29-Mar-2023	03:00	0.9	
29-Mar-2023	04:00	0.4	WSW
29-Mar-2023	05:00	0.4	WSW
29-Mar-2023	06:00	0.4	WSW
29-Mar-2023	07:00	0.9	WSW
29-Mar-2023	08:00	0.9	WSW
29-Mar-2023	09:00	0.9	WSW
29-Mar-2023	10:00	0.9	WSW
29-Mar-2023	11:00	0.9	WSW
29-Mar-2023	12:00	1.3	WSW
29-Mar-2023	13:00	0.9	WSW
29-Mar-2023	14:00	0.4	WSW
29-Mar-2023	15:00	0.4	WSW
29-Mar-2023	16:00	0.4	WSW
29-Mar-2023	17:00	0.0	W
29-Mar-2023	18:00	0.4	WSW
29-Mar-2023	19:00	0.0	WNW
29-Mar-2023	20:00	0.0	WNW
29-Mar-2023	21:00	0.0	NW
29-Mar-2023	22:00	0.0	WSW
29-Mar-2023	23:00	0.0	WSW
30-Mar-2023	00:00	0.0	WSW
30-Mar-2023	01:00	0.0	SW
30-Mar-2023	02:00	0.0	
30-Mar-2023	03:00	0.0	
30-Mar-2023	04:00	0.0	WSW
30-Mar-2023	05:00	0.0	W
30-Mar-2023	06:00	0.0	WSW

# Appendix I - Wind Data

Date	Time	Wind Speed m/s	Direction
30-Mar-2023	07:00	0.0	WSW
30-Mar-2023	08:00	0.0	WSW
30-Mar-2023	09:00	0.0	WSW
30-Mar-2023	10:00	0.0	WSW
30-Mar-2023	11:00	0.0	W
30-Mar-2023	12:00	0.0	WSW
30-Mar-2023	13:00	0.4	WSW
30-Mar-2023	14:00	0.0	WSW
30-Mar-2023	15:00	0.0	W
30-Mar-2023	16:00	0.0	WSW
30-Mar-2023	17:00	0.0	WSW
30-Mar-2023	18:00	0.0	WSW
30-Mar-2023	19:00	0.0	WNW
30-Mar-2023	20:00	0.0	WSW
30-Mar-2023	21:00	0.0	W
30-Mar-2023	22:00	0.0	WSW
30-Mar-2023	23:00	0.0	WSW
31-Mar-2023	00:00	0.0	WSW
31-Mar-2023	01:00	0.0	WSW
31-Mar-2023	02:00	0.0	WSW
31-Mar-2023	03:00	0.4	WSW
31-Mar-2023	04:00	0.0	WSW
31-Mar-2023	05:00	0.0	WSW
31-Mar-2023	06:00	0.0	WSW
31-Mar-2023	07:00	0.0	WSW
31-Mar-2023	08:00	0.0	WSW
31-Mar-2023	09:00	0.0	WSW
31-Mar-2023	10:00	0.4	WSW
31-Mar-2023	11:00	0.4	WSW
31-Mar-2023	12:00	1.3	WSW
31-Mar-2023	13:00	0.9	WSW
31-Mar-2023	14:00	1.3	WSW
31-Mar-2023	15:00	0.4	WSW
31-Mar-2023	16:00	0.9	WSW
31-Mar-2023	17:00	0.4	WSW
31-Mar-2023	18:00	0.4	WSW
31-Mar-2023	19:00	0.9	WSW
31-Mar-2023	20:00	0.4	WSW
31-Mar-2023	21:00	0.9	WSW
31-Mar-2023	22:00	0.9	WSW
31-Mar-2023	23:00	0.4	WSW

APPENDIX J EVENT ACTION PLANS

	ACTION				
EVENT	ET	IEC	ER	CONTRACTOR	
ACTION LEVEL					
1. Exceedance for one sample	<ol> <li>Identify source, investigate the causes of exceedance and propose remedial measures;</li> <li>Inform IEC, ER and Contractor;</li> <li>Repeat measurement to confirm finding; and</li> <li>Increase monitoring frequency to daily.</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method; and</li> <li>Review and advise the ET and ER on the effectiveness of the proposed remedial measures.</li> </ol>	1. Notify Contractor.	<ol> <li>Identify source, investigate the causes of exceedance and propose remedial measures</li> <li>Rectify any unacceptable practice and implement remedial measures; and</li> <li>Amend working methods agreed with ER if appropriate.</li> </ol>	
2. Exceedance for two or more consecutive samples	<ol> <li>Identify source, investigate the causes of exceedance and propose remedial measures;</li> <li>Inform IEC, ER and Contractor;</li> <li>Advise the ER and Contractor on the effectiveness of the proposed remedial measures;</li> <li>Repeat measurements to confirm findings;</li> <li>Increase monitoring frequency to daily;</li> <li>Discuss with IEC, ER and Contractor on remedial actions required;</li> <li>If exceedance continues, arrange meeting with IEC and ER; and</li> <li>If exceedance stops, cease additional monitoring.</li> </ol>	<ol> <li>Check monitoring data submitted by ET;</li> <li>Check Contractor's working method;</li> <li>Discuss with ET and Contractor on possible remedial measures;</li> <li>Advise the ET and ER on the effectiveness of the proposed remedial measures; and</li> <li>Supervise Implementation of remedial measures.</li> </ol>	<ol> <li>Confirm receipt of notification of failure in writing;</li> <li>Notify Contractor; and</li> <li>Supervise and ensure remedial measures properly implemented.</li> </ol>	<ol> <li>Identify source, investigate the causes of exceedance and propose remedial measures</li> <li>Submit proposals for remedial actions to ER with a copy to ET and IEC within 3 working days of notification;</li> <li>Implement the agreed proposals; and</li> <li>Amend proposal if appropriate.</li> </ol>	

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

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.	<ol> <li>Stop the relevant portion of works as determined by the ER until the exceedance is abated.</li> </ol>	

# **Event / Action Plan for Construction Noise**

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

	Action					
Event	ET	IEC	ER	Contractor		
Action level being exceeded by one sampling day	<ol> <li>Inform IEC, Contractor and ER;</li> <li>Check monitoring data, all plant, equipment and Contractor's working methods; and</li> <li>Discuss remedial measures with IEC and Contractor and ER.</li> </ol>	<ol> <li>Discuss with ET, ER and Contractor on the implemented mitigation measures;</li> <li>Review proposals on remedial measures submitted by Contractor and advise the ER accordingly; and</li> <li>Review and advise the ET and ER on the effectiveness of the implemented mitigation measures.</li> </ol>	<ol> <li>Discuss with IEC, ET and Contractor on the implemented mitigation measures;</li> <li>Make agreement on the remedial measures to be implemented;</li> <li>Supervise the implementation of agreed remedial measures.</li> </ol>	<ol> <li>Identify source(s) of impact;</li> <li>Inform the ER and confirm notification of the non-compliance in writing;</li> <li>Rectify unacceptable practice;</li> <li>Check all plant and equipment;</li> <li>Consider changes of working methods;</li> <li>Discuss with ER, ET and IEC and purpose remedial measures to IEC and ER; and</li> <li>Implement the agreed mitigation measures.</li> </ol>		
Action level being exceeded by two or more consecutive sampling days	<ol> <li>Repeat in-situ measurement on next day of exceedance to confirm findings;</li> <li>Inform IEC, contractor and ER;</li> <li>Check monitoring data, all plant, equipment and Contractor's working methods;</li> <li>Discuss remedial measures with IEC, contractor and ER</li> <li>Ensure remedial measures are implemented</li> </ol>	<ol> <li>Discuss with ET, Contractor and ER on the implemented mitigation measures;</li> <li>Review the proposed remedial measures submitted by Contractor and advise the ER accordingly; and</li> <li>Review and advise the ET and ER on the effectiveness of the implemented mitigation measures.</li> </ol>	<ol> <li>Discuss with ET, IEC and Contractor on the proposed mitigation measures;</li> <li>Make agreement on the remedial measures to be implemented; and</li> <li>Discuss with ET, IEC and Contractor on the effectiveness of the implemented remedial measures.</li> </ol>	<ol> <li>Identify source(s) of impact;</li> <li>Inform the ER and confirm notification of the non-compliance in writing;</li> <li>Rectify unacceptable practice;</li> <li>Check all plant and equipment and consider changes of working methods;</li> <li>Discuss with ET, IEC and ER and submit proposal of remedial measures to ER and IEC within 3 working days of notification; and</li> <li>Implement the agreed mitigation measures.</li> </ol>		
Limit level being exceeded by one sampling day	<ol> <li>Repeat measurement on next day of exceedance to confirm findings;</li> <li>Inform IEC, contractor and ER;</li> </ol>	1. Discuss with ET, Contractor and ER on the implemented mitigation measures;	<ol> <li>Discuss with ET, IEC and Contractor on the implemented remedial measures;</li> </ol>	<ol> <li>Identify source(s) of impact;</li> <li>Inform the ER and confirm notification of the non-compliance in writing;</li> </ol>		

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

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

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 Exceedance		No. of Exceedance related to the Construction Activities of the Project	
		Action Level	Limit Level	Action Level	Limit Level
Noise	Leq(30 min.) dB(A)	1	0	0	0

## (C) Exceedance Report for Water Quality

Environmental Monitoring	Parameter	No. of non-project related Exceedance		No. of Exceedance related to the Construction Activities of 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	230301	
Date	1 March 2023 (Wednesday)	
Time	10:45 - 11:30	

Ref. No.	Non-Compliance	Related
Kel. 140.	None identified	Item No.
-	Ivone identified	-
Ref. No.	Remarks/Observations	Related Item No.
<b>KCI</b> . 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.	
	The environmental demonstry 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.: 230222), all major environmental deficiency had	
	been rectified/ improved by the Contractors	

	Name	Signature	Date
Recorded by	Adrian Lam	A	4 March 2023
Checked by	Dr. Priscilla Choy	WF	4 March 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	230308	
Date	8 March 2023 (Wednesday)	
Time	09:45 - 10:45	

Dof No	Non Compliance	Related
Ref. No.	Non-Compliance           None identified	Item No.
-		-
Ref. No.	Remarks/Observations	Related
<b>Kel</b> . 140.		Item No.
	<ul> <li>B. Air Quality</li> <li>No environmental deficiency was identified during site inspection.</li> </ul>	
	• 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.: 230301), no major environmental deficiency was identified during site inspection	

	Name	Signature	Date
Recorded by	Adrian Lam	A	9 March 2023
Checked by	Dr. Priscilla Choy	W.L	9 March 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	230315	
Date	15 March 2023 (Wednesday)	
Time	14:00 - 15:00	

Ref. No.	Non-Compliance	Related Item No.
-	None identified	
Ref. No.	Remarks/Observations	Related Item No.
230315-R01	<ul> <li>B. Air Quality</li> <li>Green nets used to cover the stockpile at Box Culvert A should be replaced by impermeable tarpaulin sheets.</li> </ul>	В2
	<ul> <li><i>C. Noise</i></li> <li>No environmental deficiency was identified during site inspection.</li> </ul>	
	<ul> <li><i>D. Water Quality</i></li> <li>No environmental deficiency was identified during site inspection.</li> </ul>	
	<ul> <li><i>E. Waste / Chemical Management</i></li> <li>No environmental deficiency was identified during site inspection.</li> </ul>	
	F. Land Contamination	
	No environmental deficiency was identified during site inspection.	
	G. Landscape and Visual	
	No environmental deficiency was identified during site inspection.	
	<ul><li><i>H. Ecology</i></li><li>No environmental deficiency was identified during site inspection.</li></ul>	
	I. Fisheries	
	No environmental deficiency was identified during site inspection.	
	J. Permits/Licences           • No environmental deficiency was identified during site inspection.	
	<i>K. Others</i> Follow-up on previous audit section (Ref. No.: 230308), no major environmental deficiency was	
	identified during site inspection.	

	Name	Signature	Date
Recorded by	Adrian Lam	A	16 March 2023
Checked by	Dr. Priscilla Choy	W.T.	16 March 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

F	
Checklist Reference Number	230322
Date	22 March 2023 (Wednesday)
Time	14:00 - 15:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
230322-R02	<ul> <li><i>B. Air Quality</i></li> <li>The dusty stockpile at Box Culvert C should be covered with impervious tarpaulin sheets.</li> </ul>	B 2
	<ul><li><i>C. Noise</i></li><li>No environmental deficiency was identified during site inspection.</li></ul>	
230322-R01	<ul><li><i>D. Water Quality</i></li><li>Exposed slopes at pond 5 shall be covered with tarpaulin sheets.</li></ul>	D 8
	<ul> <li><i>E. Waste / Chemical Management</i></li> <li>No environmental deficiency was identified during site inspection.</li> </ul>	
	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.	
	<ul> <li><i>I. Fisheries</i></li> <li>No environmental deficiency was identified during site inspection.</li> </ul>	
	J. Permits/Licences	
	No environmental deficiency was identified during site inspection. <i>K. Others</i>	
	Follow-up on previous audit section (Ref. No.: 230315), all environmental deficiency was identified during site inspection.	

	Name	Signature	Date
Recorded by	Adrian Lam	A	25 March 2023
Checked by	Dr. Priscilla Choy	with	25 March 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

Inspection Information	
Checklist Reference Number	230329
Date	29 March 2023 (Wednesday)
Time	14:00 - 15:30

		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.	
	• 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.: 230322), all environmental deficiency was identified during site inspection.	

	Name	Signature	Date
Recorded by	Adrian Lam	A	30 March 2023
Checked by	Dr. Priscilla Choy	NI	30 March 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	230301	
Date	1 March 2023 (Wednesday)	
Time	14:00 - 16:00	

Ref. No.	Non-Compliance	Related Item No.
-	None identified	· -
Ref. No.	Remarks/Observations	Related Item No.
230301-R02	<ul> <li>B. Air Quality</li> <li>To ensure vehicles leave the site at Reed Bed 3A without debris of dirt with wheel-washing facilities, and clear the dusty debris outside the site exit of Reed Bed 3A</li> </ul>	В9
	<ul> <li><i>C. Noise</i></li> <li>No environmental deficiency was identified during site inspection.</li> </ul>	
	<ul> <li><i>D. Water Quality</i></li> <li>No environmental deficiency was identified during site inspection.</li> </ul>	
220201 D01	E. Waste / Chemical Management	E 10
230301-R01	To provide drip trays for chemical storages at CS1 and LCS.	E 13
	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.: 230222), all major environmental deficiency were rectified/ improved by the Contractor.	

	Name	Signature	Date
Recorded by	Adrian Lam	A	6 March2023
Checked by	Dr. Priscilla Choy	NEL	6 March 2023

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

mspection mornation	
Checklist Reference Number	230308
Date	8 March 2023 (Wednesday)
Time	14:00 - 15:45

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Air Quality	
	No environmental deficiency was identified during site inspection.	
	C. Noise	
	No environmental deficiency was identified during site inspection.	
	D. Water Quality	
	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.: 230301), all major environmental deficiency were rectified/ improved by the Contractor.	

	Name	Signature	Date
Recorded by	Adrian Lam	A	13 March2023
Checked by	Dr. Priscilla Choy	white	13 March 2023
		·	

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	230315	
Date	15 March 2023 (Wednesday)	
Time	09:30 - 11:00	

		Related
Ref. No.	Non-Compliance	Item No.
-	None identified	-
		Related
Ref. No.	Remarks/Observations	Item No.
	B. Air Quality	
230315-R01	• The idle stockpiles of dusty materials should be covered entirely with impervious tarpaulin sheet at TAR1	B 2
	C. Noise	
	No environmental deficiency was identified during site inspection.	
	D. Water Quality	
230315-R03	• To further clear the muddy blockage at the perimeter cut-off drain at CS1.	D 2
230315-R04	• To enhance the water mitigation measure at the sloped opening at site boundary of LCS.	D 4
	E. Waste / Chemical Management	
230315-R02	• To clear the existing oil leakage and avoid further leakage from the air compressor at	E 12
	CS1 and the hammer drill at LCS.	
	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.: 230308), no major environmental	
	deficiency was identified during site inspection	

	Name	Signature	Date
Recorded by	Adrian Lam	A	16 March2023
Checked by	Dr. Priscilla Choy	NF	16 March 2023

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

P = = = = = = = = = = = = = = = = =	
Checklist Reference Number	230322
Date	22 March 2023 (Wednesday)
Time	09:30 - 11:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Air Quality	
230322-R01	• The idle stockpiles of dusty materials should be covered entirely with impervious tarpaulin sheet at TAR1.	В 2
	C. Noise	
	No environmental deficiency was identified during site inspection.	
	D. Water Quality	
230322-R02	• To enhance water mitigation measures around existing drainage at Reed Bed 3.	D 1, 4
	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.: 230315), follow-up actions were required for item 230315-R01, which was remarked as 230322-R01.	

	Name	Signature	Date
Recorded by	Adrian Lam	A	25 March2023
Checked by	Dr. Priscilla Choy	white	25 March 2023
		*	

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	230329	
Date	29 March 2023 (Wednesday)	
Time	09:30 - 12:00	

		Related
Ref. No.	Non-Compliance	Item No
-	None identified	-
		Related
Ref. No.	Remarks/Observations	Item No
	B. Air Quality	
	No environmental deficiency was identified during site inspection.	
	C. Noise	
	No environmental deficiency was identified during site inspection.	
	D. Water Quality	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	No environmental deficiency was identified during site inspection.	
	F. Land Contamination	
	No environmental deficiency was identified during site inspection.	
	G. Landscape and Visual	
	No environmental deficiency was identified during site inspection.	
	H. Ecology	
	No environmental deficiency was identified during site inspection.	
	I. Fisheries	
	No environmental deficiency was identified during site inspection.	
	J. Permits/Licences	
	No environmental deficiency was identified during site inspection.	
	K. Others	
	• Follow-up on previous audit section (Ref. No.: 230322), all major environmental deficiency were rectified/improved by the Contractors.	

	Name	Signature	Date
Recorded by	Adrian Lam	A	30 March2023
Checked by	Dr. Priscilla Choy	INT	30 March 2023

# 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 Sur	nmary	
<b>Inspection Information</b>		
Checklist Reference Number	230306	
Date	6 March 2023 (Monday)	
Time	14:00 - 15:00	

DAN		Related
Ref. No.	Non-Compliance	Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related
Rel. No.	B. Air Quality	Item No.
	<ul> <li>No environmental deficiency was identified during site inspection.</li> </ul>	
	• No environmental deficiency was identified during site inspection.	
	C. Noise	
230306-R01	• To provide further noise mitigation measures at EEAA.	C 8
	D. Water Quality	
	No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	<ul> <li>No environmental deficiency was identified during site inspection.</li> </ul>	
	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.: 230227), all environmental deficiency have been rectified/ improved by the Contractor.	

Name	Signature	Date
Adrian Lam	A	7 March, 2023
Dr. Priscilla Choy	hit	7 March, 2023
	Adrian Lam	Adrian Lam

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

Weekly Site Inspection Record Summary	,
Inspection Information	
Checklist Reference Number	230313
Date	13 March 2023 (Monday)
Time	14:00 - 14:45

		Related
Ref. No.	Non-Compliance	Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Air Quality	
	No environmental deficiency was identified during site inspection.	
	C. Noise	
	No environmental deficiency was identified during site inspection.	
	D. Water Quality	
230313-R01	• To enhance water mitigation measure for the stockpile of soil next to the site boundary of EEAA.	D 4
	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.: 230306), all environmental deficiency have been rectified/ improved by the Contractor.	

	Name	Signature	Date
Recorded by	Adrian Lam	A	16 March, 2023
Checked by	Dr. Priscilla Choy	WT	16 March, 2023

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

Weekly Site Inspection Record Summary					
Inspection Information					
Checklist Reference Number	230320				
Date	20 March 2023 (Monday)				
Fime 14:00 – 14:45					

DON		Related
Ref. No.	Non-Compliance	Item N
-	None identified	-
D 4 M		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	
	<ul> <li>No environmental deficiency was identified during site inspection.</li> </ul>	
	• 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.: 230313) all environmental deficiency	
	have been rectified/ improved by the Contractor.	

	Name	Signature	Date
Recorded by	Adrian Lam	A	21 March, 2023
Checked by	Dr. Priscilla Choy		21 March, 2023

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

Weekly Site Inspection Record Summary						
Inspection Information						
Checklist Reference Number 230327						
Date	27 March 2023 (Monday)					
Time						

D. A.N.		Related
Ref. No.	Non-Compliance	Item No.
-	None identified	-
DCN		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.	
	• No environmental deficiency was identified during site inspection.	
	D. Water Quality	
230327-R01	• The silt retention pond should be properly connected to the wetsep for treatment at EEAA.	D4
	E. Waste / Chemical Management	
	<ul> <li>No environmental deficiency was identified during site inspection.</li> </ul>	
	• To environmental deficiency was identified during site inspection.	
	F. Land Contamination	
	No environmental deficiency was identified during site inspection.	
	G. Landscape and Visual	
	<ul> <li>No environmental deficiency was identified during site inspection.</li> </ul>	
	• No environmental denciency was identified during site inspection.	
	H. Ecology	
	No environmental deficiency was identified during site inspection.	
	I. Fisheries	
	<ul> <li>No environmental deficiency was identified during site inspection.</li> </ul>	
	J. Permits/Licences	
	No environmental deficiency was identified during site inspection.	
	K. Others	
	• Follow-up on previous audit section (Ref. No.: 230320), no major environmental deficiency was identified during site inspection.	

	Name Signature		
Recorded by	Ivy Tam	Tun	27 March 2023
Checked by	Dr. Priscilla Choy	NF	27 March 2023

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	ion Dust Ir	npact			1		
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 site conditions but should be sufficient to maintain an equivalent	Minimize dust impact at the nearby sensitive receivers	Contractor	All construction sites	Construction stage	٨
		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				٨
		avoid emission of dark smoke					
		Valid No-Road Mobile Machinery (NRMM) labels should be					۸
		provided to regulated machines					
S3.8	D2-DP	<ul> <li>Following dust suppression measures should also be incorporated by the Contractor to control the dust nuisance</li> </ul>	Minimize dust impact at	Contractor	All construction	Construction	۸
	1/DP2/	throughout the construction Phase	the nearby sensitive		sites	stage	
	DP3	<ul> <li>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</li> </ul>	receivers				*
		<ul> <li>hours of the excavation or unloading;</li> <li>Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads;</li> </ul>					٨
		<ul> <li>A stockpile of dusty material should not be extend beyond the pedestrian barriers, fencing or traffic cones;</li> <li>The load of dusty materials on a vehicle leaving a</li> </ul>					۸ *
		construction site should be covered entirely by impervious sheeting to ensure that the dusty material do not leak from					

EIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location of the	When to	Implementation
	Log		recommended	implement	measures	Implement the	Status
	Ref		Measures & Main	the		measures?	
			Concerns to address	measures?			
		<ul> <li>the vehicle;</li> <li>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;</li> <li>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.</li> <li>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;</li> <li>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;</li> <li>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 should be provided from the first floor level up to the highest level of the scaffolding; Any skip hoist for material should be provided from the first floor level up to the highest level of the scaffolding; Any skip hoist for material should be provided from the first floor level up to the highest level of the scaffolding; Any skip hoist for material should be provided from the fir</li></ul>	Concerns to address	measures?			Α
		<ul> <li>material transport should be totally enclosed by impervious sheeting;</li> <li>Every stock of more than 20 bags of cement or dry</li> </ul>					
		pulverised fuel ash (PFA) should be covered entirely by					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?			
		<ul> <li>impervious sheeting or placed in an area sheltered on the top and the 3 sides;</li> <li>Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an audible high level alarm which is interlocked</li> </ul>					N/A
		<ul> <li>with the material filling line and no overfilling is allowed;</li> <li>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</li> </ul>					N/A
		<ul> <li>pollution control system; and</li> <li>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.</li> </ul>					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		
Construct	tion Noise	Impact		L	1		
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	٨
	P2/DP3	<ul> <li>programme;</li> <li>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;</li> <li>Plant known to emit noise strongly in one direction, where</li> </ul>	noise				٨
		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?			
		<ul> <li>equipment should be properly fitted and maintained during the construction works;</li> <li>Mobile plant should be sited as far away from NSRs as possible and practicable;</li> <li>Material stockpiles, mobile container site office and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities.</li> </ul>					۸
S4.8	N-CP2-	Install temporary site hoarding (approx 2.4m high) located on the site boundaries between noisy construction activities and NSRs.	Reduce the construction	Contractor	All construction	Construction	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	Screen the noisy plant	Contractor	All construction	Construction	۸
	DP1/D	plants including air compressor and generator.	items to be used at all		sites where	phase	
	P2/DP3		construction sites		practicable		
S4.8	N-CP4-	Use of "Quiet" Plant and Working Methods	Reduce the noise levels	Contractor	All construction	Construction	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	۸
	DP1/D		within the same work site		sites where	phase	
	P2/DP3		to reduce the		practicable		
			construction airborne				
			noise				
S4.8	N-CP6-	Setting the concrete lorry mixer at around 25m away from the	Reduce the noise levels	Contractor	Sections with	Construction	۸
	DP2	existing NSRs along Ha Wan Tsuen Road and Lok Ma Chau 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	*
	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	٨
	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, 1994 (ProPECC PN 1/94), construction phase mitigation	site runoff and general		practicable		
		measures,	construction activities				
		where appropriate, should include the following:					
		<ul> <li>Update and implementation of Stormwater Pollution Control Plan</li> </ul>					۸
		At the start of site establishment, perimeter cut-off drains					
		to direct off-site water around the site should be					*
		constructed with internal drainage works and erosion and sedimentation control facilities implemented. Channels					
		(both temporary and permanent drainage pipes and					
		culverts), earth bunds or sand bag barriers should be					
		provided on site to direct stormwater to silt removal					
		facilities. The design of the temporary on-site drainage					
		system will be undertaken by the contractor prior to the					
		commencement of construction.					

EIA Ref.	EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location of the	When to	Implementation
	Log		recommended	implement	measures	Implement the	Status
	Ref		Measures & Main	the		measures?	
			Concerns to address	measures?			
		Diversion of natural stormwater should be provided as far					٨
		as possible. The design of temporary on-site drainage					
		should prevent runoff going through site surface,					
		construction machinery and equipments in order to avoid					
		or minimize polluted runoff. Sedimentation tanks with					
		sufficient capacity, constructed from pre-formed individual					
		cells of approximately 6 to 8 m3 capacities,					
		are recommended as a general mitigation measure which					
		can be used for settling surface runoff prior to disposal.					
		The system capacity shall be flexible and able to handle					
		multiple inputs from a variety of sources and suited to					
		applications where the influent is pumped.					
		The dikes or embankments for flood protection should be					
		implemented around the boundaries of earthwork areas.					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					۸
		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?			
		<ul> <li>slope surfaces should be covered by tarpaulin or other means.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>Precautions to be taken at any time of year when rainstorms are likely, actions to be taken during</li> </ul>					* ^ * ^
		or after rainstorms are summarized in Appendix A2 of					
		ProPECC PN 1/94. Particular attention should be paid to the control of silty surface runoff during storm events.					^

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					
		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					۸
		oil interceptors should be emptied and cleaned regularly					
		to prevent the release of oil and grease into the storm					
		water drainage system after accidental spillage. A bypass					
		should be provided for the oil interceptors to prevent					
		flushing during heavy rain.					
		Construction solid waste, debris and rubbish on site					٨
		should be collected, handled and disposed of properly to					
		<ul><li>avoid water quality impacts.</li><li>All fuel tanks and storage areas should be provided with</li></ul>					
		locks and sited on sealed areas, within bunds of a					٨
		capacity equal to 110% of the storage capacity of the					Λ
		largest tank to prevent spilled fuel oils from reaching					
		water sensitive receivers nearby.					
		<ul> <li>Regular environmental audit on the construction site</li> </ul>					
		should be carried out in order to prevent any					
		malpractices. Notices should be posted at conspicuous					٨
		locations to remind the workers not to discharge any					

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	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	<ul> <li>treatment in LMC Loop.</li> <li>Additional investigation is required to identify if contaminated groundwater is found.</li> </ul>	contaminated area		found.		N/A
		<ul> <li>If the investigation results indicated that the groundwater to be generated from construction works would be</li> </ul>					N/A
		contaminated, the contaminated groundwater should be either discharged into recharged wells, or properly treated in compliance with the requirements of Technical					N/A
		Memorandum on Standards for Effluents Discharged into Drainage on Sewerage Systems, Inland and Coastal Waters.					NVA
		<ul> <li>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</li> </ul>					N/A
		<ul> <li>the recharging wells.</li> <li>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.</li> </ul>					N/A
S5.7	W3-CP	Sewage from Workforce	Minimize water quality	Contractor	All construction	Construction	
	-DP1/D P2/DP3	<ul> <li>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</li> </ul>	from sewage effluent		sites where practicable	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?			
		<ul> <li>portable toilets to cater 0.15m3/day/employed populations and be responsible for appropriate disposal and maintenance.</li> <li>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.</li> <li>Regular environmental audit on the construction site should be conducted in order to provide an effective control of any malpractices and achieve continual</li> </ul>					۸
		improvement of environmental performance on site.					
S5.7	W4-CP	Riverbanks Formation	Minimize water quality	Contractor	Riverbank	Construction	
	-DP1	<ul> <li>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.</li> </ul>	impact from riverbank works		works	Phase	۸
		<ul> <li>Water quality of the Shenzhen River and the meander would be monitored to ensure effectiveness of the implemented mitigation measures.</li> </ul>					۸
S5.7	W1-CP	Bio-remediation in Shenzhen River	Minimize water quality	Contractor	Shenzhen River	Construction	
	-BR	<ul> <li>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&amp;A Manual. If unacceptable water quality impact in the receiving water is recorded, additional measures such as</li> </ul>	impact from bio-remediation of Shenzhen River		where practicable	phase	N/A
		slowing down, or rescheduling of works should be					

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	Log		recommended	implement	measures	Implement the	Status
	Ref		Measures & Main	the		measures?	
			Concerns to address	measures?			
		implemented as necessary.					
S5.7	W4-CP	Construction of Viaduct across Reedbed in LMC Station	Minimize water quality	Contractor	Construction	Construction	N/A
	-DP3	As a precautionary measures, three options are recommended to	impact from of viaduct on		sites across	phase	
		ensure the compliance of No Net Increase in Pollution Load in	reedbed		reedbed in LMC		
		Deep Bay for further consideration. They include:			Station		
		<ul> <li>On-site compensate the same area of the occupied reedbed;</li> </ul>					
		<ul> <li>Provide pilot plant during construction; or</li> <li>Increase the hydraulic retention time of the proposed</li> </ul>					
		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 solid wastes from falling into the WSRs.	of bridge crossing		crossing where		
		All the fishponds will be drained and no fishpond will be			practicable		N/A
		<ul> <li>affected by bridge crossing.</li> <li>In the meander, cofferdam or diaphragm walls should be deployed for protecting fish ponds or nearby rivers during</li> </ul>					N/A
		bridge pier construction and or road widening work at fishponds.					
		· For the low level viaducts crossing the small streams at					N/A
		Ma Tso Lung, Ping Hang and channel near Lung Hau					
		Road, precast structures will be used such that there will					
		be no construction work in the water streams, and thus, to					
		avoid direct water quality impacts.					

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	Log		recommended	implement	measures	Implement the	Status
	Ref		Measures & Main	the		measures?	
			Concerns to address	measures?		inductive.	
Maata Ma	 noromont	(Construction Mosts)	concerns to address	measures :			
	-	(Construction Waste)					
S7.6	WM1-D	Waste Reduction Measures	Reduce waste generation	Contractor	All construction	Construction	
	P1/DP2	Waste reduction is best achieved at the planning and design			sites where	phase	
	/DP3	phase, as well as by ensuring the implementation of good site practices. The following recommendations are proposed to			practicable		
		achieve reduction:					
							۸
		Segregate and store different types of waste in different					
		containers, skip or stockpiles to enhance reuse or					
		recycling of materials and their proper disposal;					
		<ul> <li>proper storage and site practices to minimize the potential for damage and contamination of construction materials;</li> </ul>					*
		<ul> <li>plan and stock construction materials carefully to</li> </ul>					۸
		minimize amount of waste generated and avoid					
		unnecessary generation of waste;					
		sort out demolition debris and excavated materials from					۸
		demolition works to recover reusable/recyclable portions					
		(i.e. soil, broken concrete, metal etc.);					^
		provide training to workers on the importance of     appropriate waste management procedures including					
		appropriate waste management procedures, including waste reduction, reuse and recycling.					
S7.6	WM2-D	Prepare Waste Management Plan and submit to the Engineer for	Minimize waste	Contractor	All construction	Construction	٨
	P1/DP2	approval	generation during		sites	phase	
			· · ·		51105	priase	
	/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				
							۸
		<ul> <li>Nomination of an approved personnel, such as a site manager, to be responsible for the implementation of</li> </ul>					۸

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	Log		recommended	implement	measures	Implement the	Status
	Ref		Measures & Main	the		measures?	
			Concerns to address	measures?			
		<ul> <li>good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site;</li> <li>Training of site personnel in site cleanliness, appropriate waste management procedures and concepts of waste reduction, reuse and recycling;</li> <li>Provision of sufficient waste disposal points and regular collection for disposal;</li> <li>Appropriate measures to minimise windblown litter and dust during transportation of wastes in enclosed containers;</li> <li>Regular cleaning and maintenance programme for</li> </ul>					Λ Λ Λ
S7.6		drainage systems, sumps and oil interceptors; <u>Storage of Waste</u>	Minimize weete	Contractor	All construction	Construction	
57.0	WM4-D P1/DP2 /DP3	<ul> <li>Storage of waste</li> <li>The following recommendation should be implemented to minimize the impacts: <ul> <li>Waste such as soil should be handled and stored well to ensure secure containment;</li> <li>Stockpiling area should be provided with covers and water spraying system to prevent materials from wind-blown or being washed away;</li> <li>Different locations should be designated to stockpile each material to enhance reuse;</li> </ul> </li> </ul>	Minimize waste generation during construction	Contractor	All construction sites	Construction phase	Λ Λ
S7.6	WM5-D P1/DP2 /DP3	<ul> <li><u>Collection and Transportation of Waste</u></li> <li>The following recommendation should be implemented to minimize the impacts: <ul> <li>Remove waste in timely manner;</li> <li>Employ the trucks with cover or enclosed containers for waste transportation;</li> </ul> </li> </ul>	Minimize waste impact from storage	Contractor	All construction sites	Construction phase	Λ 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?			
		<ul> <li>Obtain relevant waste disposal permits from the appropriate authorities; and</li> <li>Disposal of waste should be done at licensed waste disposal facilities.</li> </ul>					۸
S7.6	WM6-D	Excavated and C&D Material	Minimize waste impacts	Contractor	All construction	Construction	
	P1/DP2 /DP3	Wherever practicable, C&D materials should be segregated from other wastes to avoid contamination and ensure acceptability at Public Fill Reception Facilities areas or reclamation sites. The following mitigation measures should be implemented in handling	from excavated and C&D material		sites	phase	
		<ul> <li>the excavated and C&amp;D materials:</li> <li>Maintain temporary stockpiles and reuse excavated fill material for backfilling;</li> </ul>					۸
		Carry out on-site sorting;					۸
		<ul> <li>Make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate; and</li> </ul>					۸
		<ul> <li>Implement a trip-ticket system for each works contract to ensure that the disposal of C&amp;D materials are properly documented and verified.</li> </ul>					۸
		<ul> <li>The recommended C&amp;D materials handling should include:</li> <li>On-site Sorting of C&amp;D Materials</li> </ul>					٨
		Reuse of C&D Materials					۸
		Use of Standard Formwork and Planning of Construction					٨
		Materials Purchasing					
		Provision of Wheel Wash Facilities					۸
		Details refer to Section 7.6.1.4 of the EIA report.					
S7.6	WM7-D	Contaminated Soil	Remediate contaminated	Contractor	All construction	Construction	
	P1/DP2	As a precaution, it is recommended that standard good site practice should be implemented during the construction phase to	soil		sites where	phase	N/A

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	Log		recommended	implement	measures	Implement the	Status
	Ref		Measures & Main	the		measures?	
			Concerns to address	measures?			
	/DP3	minimize any potential exposure to contaminated soils or groundwater. The details of mitigation measures to minimize the potential environmental implications arising from the handling of contaminated materials refer to Land Contamination Section.			applicable		
S7.6	WM8-D	Chemical Waste	Control the chemical	Contractor	All construction	Construction	
	P1/DP2	If chemical wastes are produced at the construction site,	waste and ensure proper		sites	phase	۸
	/DP3	the Contractors should register with EPD as chemical	storage, handling and				
		waste producers. Chemical wastes should be stored in	disposal				
		appropriate containers and collected by a licensed					
		chemical waste contractor. Chemical wastes (e.g. spent					
		lubricant oil) should be recycled at an appropriate facility as					
		far as possible, while the chemical waste that cannot be					
		recycled should be disposed of at either the Chemical					
		Waste Treatment Centre, or another licensed facility, in					
		accordance with the Waste Disposal (Chemical Waste)					
		(General) Regulation.					
S7.6	WM9-D	General Waste	Minimize production of	Contractor	All construction	Construction	
	P1/DP2	General refuse should be stored in enclosed bins	the general refuse and		sites	phase	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.					۸
		A reputable waste collector should be employed to remove					

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	Log		recommended	implement	measures	Implement the	Status
	Ref		Measures & Main	the		measures?	
			Concerns to address	measures?			
		general refuse on a daily basis.					
S7.6	WM10-	Sewage	Minimize production of	Contractor	All construction	Construction	
	DP1/D	The WMP should document the locations and number of	sewage impacts		sites	phase	۸
	P2	portable chemical toilets depending on the number of					
		workers, land availability, site condition and activities.					
		Regularly collection by licensed collectors should be					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
		workers.					

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	Log		recommended	implement	measures	Implement the	Status
	Ref		Measures & Main	the		measures?	
			Concerns to address	measures?			
		In case contamination of excavated materials is confirmed after					
		testing, the mitigation measures described in Land					
		Contamination Impacts section should also be implemented to					
		minimize potential environmental impacts.					
Land Con	tamination						
S8.7	LC1-D	Remediation of arsenic-contaminated soil	To remediate	Project	LMC Loop,	Prior to	
	P2/DP3	"Solidification/Stabilization" (S/S) treatment method was	arsenic-contaminated soil	Proponent/	contaminated	commencement	N/A
		proposed for the remediation of arsenic-contaminated soil.		Contractor	area	of construction	
		Toxicity Characteristic Leaching Procedure (TCLP) test				works within the	
		should be undertaken after S/S in order to ensure that the				contaminated	
		contaminant will not leach to the environment. Unconfined				area	
		Compressive Strength (UCS) test should be conducted,					
		and not less than 1MPa should be met prior to the					
		backfilling or stockpiled for future reuse within the study					
		area. Off-site disposal or reuse of the solidified material is					
		not allowed.					
S8.7	LC1-D	Excavation and Transportation	To minimise the potential	Contractor	Contaminated		
	P1/DP2	Excavation profiles must be properly designed and	environmental impacts		area		N/A
	/DP3	executed with attention to the relevant requirements for	arising from the handling				
		environment, health and safety;	of				
		• In case the soil to be excavated is situated beneath the	contaminated materials				
		groundwater table, it may be necessary to lower the					N/A
		groundwater table by installing well points or similar					
		means;					

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

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

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	Log		recommended	implement	measures	Implement the	Status
	Ref		Measures & Main	the		measures?	
			Concerns to address	measures?			
		workers;	workers				
		Keep a log-book and plan showing the contaminated zones					
		and clean zones;					
		Maintain a hygienic working environment;					
		Avoid dust generation;					
		Provide face and respiratory protection gear to site workers					
		if necessary;					
		Provide personal protective clothing (e.g. chemical					
		resistant jackboot, liquid tight gloves) to site workers, if					
		necessary;					
		Provide first aid training and materials to site worker;					
		Bulk earth moving equipment should be utilized as much					
		as possible to minimize workers' handling and contact of					
		the contaminated materials; and					
		· Eating, drinking and smoking should not be allowed in					
		contaminated areas to avoid inadvertent ingestion of					
		contaminant.					
S8.8	LC5-D	Re-appraisal on the entire contamination assessment area for	Ensure any potential	Project	Entire	After land	۸
	P3	associated infrastructure in the adjacent areas in Hong Kong	contamination activities	Proponent	contamination	resumption	
		outside LMC Loop.	from land use changes	/Detailed	assessment		
			after the approval of this	design	area for		
			land contamination	consultant	associated		
			assessment study		infrastructure in		
					the adjacent		

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	Log		recommended	implement	measures	Implement the	Status
	Ref		Measures & Main	the		measures?	
			Concerns to address	measures?			
					areas in Hong		
					Kong outside		
					LMC Loop		
Landscap	e and Visu	al Impact (Construction Phase)		ſ	1		
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.					^
		Trees which are not in conflict with the proposals would be					
		retained and shall be protected by means of fencing during					
		construction phase to prevent damage to tree canopies					

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	Log		recommended	implement	measures	Implement the	Status
	Ref		Measures & Main	the		measures?	
			Concerns to address	measures?			
		and root zones from vehicles and storage of materials.					٨
		· 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	٨
11.5.9	P2/DP3	shall be optimized in order to minimize the duration of			where		
		impact.			applicable		
		Construction site controls shall be enforced including the					۸
		storage of materials, the location and appearance of site					
		accommodation and site storage; and the careful design of					
		site lighting to prevent light spillage.					
		The temporary works areas shall be restored to its original					۸
		condition or enhanced through the introduction of new					
		amenity areas or planting areas following the completion of					
		the construction phase.					
	L-CP3-	Advance Implementation of Mitigation Planting	Minimize landscape	Contractor	The whole	Construction	
	DP1/D	• Replanting of existing / disturbed vegetation shall be	impacts		project area	phase	۸
	P2/DP3	undertaken at the earliest possible stage of the			where		
		construction phase of the project using predominantly			applicable		
		native plant species although ornamental species may be					
		used for roadside planting and amenity areas.					
	L-CP4-	Transplantation of Existing Trees	Minimize landscape	Contractor	The whole	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?			
	DP1/D	· Some specimens have relatively higher amenity value	impacts		project area	phase	٨
	P2/DP3	which are in conflict with the proposals shall be considered			where		
		for transplantation. For trees affected by the proposed			applicable		
		infrastructure works the final receptor sites shall be					
		preferably adjacent to their current locations alongside of					
		the alignment to retain their contribution to the local					
		landscape context. For the LMC Loop the receptor					
		locations will be selected to allow the trees to be moved					
		directly to their final locations in accordance with the					
		detailed landscape proposals.					۸
		· The transplanting proposals are subject to review at the					
		detailed design phase and to agreement-in-principle with					
		the relevant management and maintenance agents and/or					
		government departments. The implementation programme					
		for the proposed works shall reserve sufficient time for the					
		advanced tree transplanting preparation works to enhance					
		the survival of the transplanted trees.					
		The transplanting proposals will be subject to the findings					٨
		of the detailed tree survey and felling application to be					
		undertaken by the detailed design consultants and					
		following approval by the relevant departments.					
	L-CP6-	Creation of Wetland and Landscape Buffer	Compensation of the loss	Project	The whole	Detailed design,	
	DP1/D	· The existing reedbed acquired for development areas for	of landscape resources	Proponent/	project area	construction and	٨
	P2	the project will be reinstated as part of the Ecological Area.		Detailed	where	operational	

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

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?			
S11.6.5	V-CP1-	Preservation and Protection of Existing Trees (Good Site	Minimise visual impact	Detailed	The whole	Detailed design	۸
Table	DP3	Practice)		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					
		be sited at less visual prominent locations.					

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?			
	V-CP3-	Advance Implementation of Mitigation Planting	Minimise visual impact	Detailed	The whole	Detailed design	N/A
	DP3	· Replanting of existing / disturbed vegetation shall be	and advance mitigation	design	project area	and construction	
		undertaken at the earliest possible stage of the	planting for screening	consultant /	where	phases	
		construction phase of the project using predominantly	purpose.	Contractor	applicable		
		native plant species although ornamental species may be					
		used for roadside planting and amenity areas.					
	V-CP5-	Coordination with Concurrent Projects	Minimize visual impacts	Contractor	The whole	Construction	٨
	DP3	Coordinated implementation programme with concurrent			project area	phase	
		projects to minimise impacts and where possible reduce			where		
		the period of disturbance.			applicable		
Ecology (0	Constructi	on Phase)					
S12.7	E1-DP1	Disturbance to Fish Ponds at HHW	On the disturbance to fish	Detailed	Fish ponds at	Detailed design,	
		Development set back a minimum of 23m from the edge	ponds at HHW	design	HHW and LMC	construction	N/A
		Meander.		consultant/		phase	
		· Management of fish pond habitat to enhance ecological		Contractor			N/A
		value to twice existing value, in order to compensate for					
		disturbance to large waterbirds.					
		Creation and establishment will occur prior to					
		commencement of substantive works associated with any					N/A
		element of the project for which fish pond compensation is					
		required.					
		Construction phase					
		Erection of a 3m high, dull green site boundary fence to					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?			
		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	٨
		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				٨
		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;					٨
		• 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					٨
		bed;					
		Stockpiling of construction materials, if necessary, will be					
		properly covered and located away from nearby water					

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?			
		bodies;					٨
		Construction debris and spoil will be covered and/or					
		properly disposed of as soon as possible to avoid being					
		washed into nearby water bodies;					
		· Construction effluent, site run-off and sewage will be					۸
		properly collected and/or treated. Wastewater from any					
		construction site will be minimised via the following in					
		descending order: reuse, recycling and treatment;					۸
		Proper locations for discharge outlets of wastewater					
		treatment facilities well away from sensitive receivers will					
		be identified (i.e. treated wastewater will not be discharged					
		into LMC Meander, natural streams, marsh, reedbed,					
		active or abandoned fish ponds);					۸
		Adequate lateral support will be erected where necessary					
		in order to prevent soil/mud from slipping into the					
		Ecological Area or LMC Meander;					۸
		• Site boundary will be clearly marked and any works beyond					
		the boundary strictly prohibited;					۸
		• Regular water monitoring and site audit will be carried out					
		at adequate points along LMC Meander, and at the outfalls					
		of the natural streams around LMC Loop. If the monitoring					
		and audit results show that pollution occurs, adequate					
		measures including temporarily cessation of works will be					
		considered.					

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?			
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;					
		<ul> <li>Emergency response procedures;</li> </ul>					
		<ul> <li>List of emergency telephone hotlines;</li> </ul>					
		- 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	<ul> <li>Design of buildings should not incorporate use of</li> </ul>		design		operation	٨
		night-time lighting at or near top of buildings, highly		consultant/		phases	
		reflective materials should not be used where vegetation is		contractor/			
		adjacent and glass surfaces should not be angled upwards		operator			
		in a way that reflects the sky. Unnecessary lighting should					
		be eliminated. Appropriate glass and façade treatments					
		should be used where required to minimise impact.					
		Unnecessary lighting should be avoided.					
		These include the following:					
		Fritting, or the placement of ceramic lines or dots on glass,					٨

EM&A	Recommended Mitigation Measures	Objectives of the	Who to	Location of the	When to	Implementation
Log		recommended	implement	measures	Implement the	Status
Ref		Measures & Main	the		measures?	
		Concerns to address	measures?			
	has little effect on the human-perceived transparency of the					
	window but creates a visual barrier to birds outside. This					
	treatment also has the advantage of reducing air					
	conditioning loads by lowering heat gain, while still allowing					
	light transmission for interior spaces. It is most successful					
	when the frits are applied on the outside surface. Frosted					
	glass has similar effects.					
	Angled glass may be used only for smaller panes in					۸
	buildings with a limited amount of glass.					
	The use of glass that reflects UV light (primarily visible to					۸
	birds, but not to humans) acts to reduce collision.					
	• Film and art treatment allow glass surfaces to be used a					۸
	medium of expression, often related to the nature and use					
	of the building, as well indicating to birds their					
	impenetrability.					۸
	Lightweight external screens can be added to windows or					
	become a façade element of larger buildings, and are					
	suitable where non-operable windows are prevalent, which					
	is often the case in modern buildings in HK.					
	In terms of reducing night-time mortality impacts, eliminating					
	unnecessary lighting is one of the easiest methods, and has the					
	Log	Log Ref       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 buildings with a limited amount of glass.         • The use of glass that reflects UV light (primarily visible to birds, but not to humans) acts to reduce collision.         • Film and art treatment allow glass surfaces to be used a medium of expression, often related to the nature and use of the building, as well indicating to birds their impenetrability.         • 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	Log Ref       recommended Measures & Main Concerns to address         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 buildings with a limited amount of glass.         • The use of glass that reflects UV light (primarily visible to birds, but not to humans) acts to reduce collision.         • Film and art treatment allow glass surfaces to be used a medium of expression, often related to the nature and use of the building, as well indicating to birds their impenetrability.         • 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	Log Ref         recommended Measures & Main Concerns to address         Implement the measures?           Ass 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 buildings with a limited amount of glass.         Film and art treatment allow glass surfaces to be used a medium of expression, often related to the nature and use of the building, as well indicating to birds their impenetrability.         Film and art treatment allow glass surfaces to be used a medium of expression, often related 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 impiacts of nocturnal avian collision with buildings should be minimised by not creating sky glow from the use of night-time	Log Ref         implement Heasures & Main Concerns to address         implement the measures?         measures           has little effect on the human-perceived transparency of the window but creates a visual barrier to birds outside. This treatment also has the advantage of reducing air conditioning loads by lowering heat gain, while still allowing light transmission for interior spaces. It is most successful when the firits are applied on the outside surface. Frosted glass has similar effects.         Angled glass may be used only for smaller panes in buildings with a limited amount of glass.         Implement From the firits are applied on the outside surface. Frosted glass that reflects UV light (primarily visible to birds, but not to humans) acts to reduce collision.         Implement From the firits are applied on the outside surfaces to be used a medium of expression, often related to the nature and use of the building, as well indicating to birds their impenetrability.         Implement for appenetrability.           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 asing energy and expense. Potential impacts of nocturnal avian collidings shoulb minimised by not creating sky glow from the use of night-time	Log Ref         implement implement the measures?         implement the measures?           has little effect on the human-perceived transparency of the window but creates a visual barrier to birds outside. This treatment also has the advantage of reducing air conditioning loads by lowering heat gain, while still allowing light transmission for interior spaces. It is most successful when the fits are applied on the outside surface. Frosted glass has similar effects.         Implement the measures?         Implement the measures?           • Angled glass may be used only for smaller panes in buildings with a limited amount of glass.         Implement the number of the number of the birds, but not to humans) acts to reduce collision.         Implement the measures?         Implement the measures?           • Angled glass may be used only for smaller panes in buildings with a limited amount of glass.         Implement the number of the number of the birds, but not to humans) acts to reduce collision.         Implement the nedium of expression, often related to the nature and use of the building, as well indicating to birds their impenetrability.         Implement the measures?         Implement the measures?           • Lightweight external screens can be added to windows or become a fagade element of larger buildings, and are suitable where non-operable windows are prevalent, which is often the case in modern buildings in HK.         In the meas of the case in modern buildings in HK.         In the meas of the case in modern buildings should be implement avian collision with buildings should be minimised by not creating sky glow from the use of night time implement avian collision with buildings should be minimised by not creating sky glow from the use of night. </th

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?			
		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					۸
		or water quality.					
		No direct lighting on Meander.					۸
		• 3m high, dull green site boundary fence for all					۸
		developments associated with the project.					
		Pre-construction surveys for otter holts or natal dens will be					٨
		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					٨
		between one hour prior to sunset and one hour after					

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?			
			sunrise.					۸
		•	Provision of compensatory reed marsh in the Ecological					
			Area in LMC Loop, including open water channels and					
			islands within the reed marsh, both of which features are					
			considered to be used by the species.					
S12.7	E8-DP2	•	Refer to E2 and E3	Prevent impacts on Rose	Contractor	Within project	Construction	^
				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,	^
	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					^
			area provide a wider Ecological Area to minimize					
			disturbance from nearby buildings.					
		•	Further minimisation of impact by maintaining a lower					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?			
			building height in areas adjacent to the buffer zone for the					
			EA. In addition, the sewage treatment works, which is					
			located near the point where many birds cross from the					
			Meander to HHW, should not exceed 15mPD.					
S12.7	E11-DP	•	Employ site boundary fence as long as possible. Use of	Minimize disturbance	Contractor	Within project	Construction	٨
	1		movable barrier for more intense site formation activity.	impacts of mitigation		site	phase	
			Provision of fencing with 30cm gap between the existing	provisions				
			reed marsh and LMC Meander during the establishment					
			period of Ecological Area and the gap will be closed once					
			established.					
		•	Restrict work to period from 0900h to 1700h. All major					٨
			works along the edge of LMC Meander and in the					
			Ecological Area will be conducted in the wet season.					
S12.7	E12-DP	•	Minimal night-time lighting	Minimize impacts on LMC	Contractor/	All	Construction and	٨
	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	٨
	2		9am and 5pm.	the construction and	Operator	along alignment	operation	
		•	Use of opaque visual/noise barriers and planting of trees	operation disturbance		(mainly Ha Wan	phases	٨
			shrubs along length of road adjacent to fish ponds.	impacts		Tsuen Road)		
		•	Compensatory habitat management elsewhere to mitigate					۸
			wetland loss.					
S12.7	E13-DP	•	Use of viaduct alignment to minimize wetland loss.	Minmize wetland loss	Project	Within project	Detailed design	۸
	3		Compensatory wetland habitat elsewhere.		Proponent /	site	and	

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?			
					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	٨
	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,	۸
	2		of trees and shrubs to minimize disturbance impacts.	line corridor from	Proponent/	site from	construction and	
				Western Connection	Detailed	Western	operation	

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?			
			Road	design	Connection	phases	
				consultant/	Road		
				Contractor			
				Operator			
040.0	500 D	All generic mitigation measures proposed in Tables 12.82a and		Drais at	All	All	^
S12.9	EG2-D	12.82b in the EIA report.	Avoid, minimize and	Project	All areas.	All phases	X
	P3		mitigate overall ecological	proponent /			
			impact.	contractor /			
				detailed			
				design			
				consultant /			
				developer /			
				operator			
	-	tion Phase)			I	Γ	
S13.7	F4-	Reprovision of replacement Artificial Reefs(of the same	Mitigate water quality	Project	To be	Construction	N/A
		volume as the existing ARs inside Marine Exclusion Zone)	impacts on the existing	proponent	determined	phase or	
			ARs			operation	
						phase	
S11.7	F2	Reduce re-suspension of sediments	Minimise marine water	Contractor	Seawall	During	N/A
		Limit dredging and works fronts.	quality impacts			construction	N/A
		Good site practices					N/A
		Strict enforcement of no marine dumping					N/A
		Spill response plan					N/A
S13.7	F4-DP3	During the construction phase, a layer of sheet pile wall will be	Bund stability	Contractor	Fish ponds	Construction	N/A

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?			
		erected along the site boundary adjacent to fish ponds after commencement of site works. The sheet pile wall will be constructed by silent piling method (Press-in method) which induces minimal vibration. Therefore the stability of the fish pond bund will not be influenced by the construction of the sheet pile wall, subsequent construction works and the loading from the road during operational phase. In addition, the sheet pile wall will have grouting or a grout curtain to avoid water seepage from the fish pond to the excavation area. With these measures, significant impacts are not anticipated.				phase	
S13.7	F5-DP3	Temporary traffic arrangements will be instigated to maintain or provide alternative access to fish ponds during construction phase.	Prevent Blockage of Access Roads to Fish Ponds	Contractor	Fish ponds	Construction phase	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	٨
S13.7	F7-DP3	<ul> <li><u>Dust Minimization</u></li> <li>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.</li> <li>Any excavated or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with</li> </ul>	Dust minimization	Contractor	Fish ponds	Construction phase	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?			
		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;					
		<ul> <li>Exposed earth should be properly treated by</li> </ul>					
		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;					
		<ul> <li>In case the soil to be excavated is situated beneath the</li> </ul>					
		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;					
		<ul> <li>Vehicles containing any excavated materials should be</li> </ul>					
		suitably covered to limit potential dust emissions or					
		contaminated run-off, and truck bodies and tailgates should					

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 sealed to prevent any discharge during transport or					
		during wet season;					
		Speed control for the trucks carrying contaminated					
		materials should be enforced; and					
		<ul> <li>Vehicle wheel washing facilities at the site's exit points</li> </ul>					
		should be established and used.					
S13.7	F8-DP3	Contingency plan The contractor should prepare an emergency contingency plan for actions to be taken if significant impacts, such as accidental spillage of chemicals, water seepage from fish ponds, damaged/ destabilized pond bunds, pond water contamination by site runoff, on fish ponds occur. The contractor should submit the emergency contingency plan dealing with, but not limited to, the aforementioned potential impacts to the engineer for review, comment and approval. The fish pond operators will also be consulted for the details of the contingency plan, which will also be submitted to AFCD for review and comment. The plan should include, but not limited to, the following: • Potential emergency situations;	Deal with any accidental spillage event	Contractor / Operator	Fish ponds	Construction and operational phases	٨
		<ul> <li>Chemicals or hazardous materials used on-site (and their location);</li> <li>Emergency response team;</li> <li>Emergency response procedures;</li> <li>List of emergency telephone hotlines;</li> <li>Locations and types of emergency response equipment;</li> <li>Training plan and testing for effectiveness.</li> </ul>					

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?			
Food Safe	ety (Constr	uction Phase)					
S15	F1-DP3	<u>Contingency</u> plan The contractor should have effective communication with Food and Environmental Hygiene Department (FEHD) / Centre of Food Safety (CFS), on food surveillance and food incidents. Food Surveillance Programme (http://www.cfs.gov.hk/english/programme/programme_fs/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	Minimize significant impacts on fish ponds	Contractor	Fish pond within project site	Construction phase	N/A
S15	F2-DP3	<ul> <li>selling shall be stopped as instructed by CFS.</li> <li><u>Dust Minimization</u></li> <li>During all excavation works, good site practice should be adopted to minimize the release of TSP, impact of land contamination and the associated food safety implications. The below site practices should be adopted during excavation works.</li> <li>Any excavated or stockpile of dusty material should be</li> </ul>	Dust minimization	Contractor	Fish pond within project site	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.					

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

Working Period: 1st to 31st March 2023

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	area		by impervious sheeting or sprayed with water to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within	
			<ul> <li>Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads;</li> </ul>	

Ref	Locat Work		Anticipated Major Impacts	Recommended Mitigation Measures	Photo Records (Partial)
	Perio	d			
EIA	All	site	Dust impact	<ul> <li>A stockpile of dusty material should not be extend beyond the pedestrian barriers, fencing or traffic cones;</li> </ul>	
\$3.8	area			• The load of dusty materials on a vehicle leaving a construction site should be covered entirely by impervious sheeting to ensure that the dusty materials do not leak from the vehicle;	

Ref	Location/	Anticipated Major Impacts	Recommended Mitigation Measures	Photo Records (Partial)
	Working	Major Impacts		
	Period			
EIA	All site	Dust impact	• The portion of any road leading only to construction site that is within	T
S3.8	area		30m of a vehicle entrance or exit should be kept clear of dusty materials;	
			• Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides;	

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

Working Period: 1st to 31st March 2023

Ref	Locati Worki	ng	Anticipated Major Impacts	Recommended Mitigation Measures	Photo Records (Partial)
EIA S4.8	Period All area	site		<ul> <li>Mobile plant should be sited as far away from NSRs as possible and practicable;</li> <li>All generator used onsite are Quality Powered Mechanical Equipment (QPME) registered with EPD.</li> </ul>	
				<ul> <li>Install movable noise barriers and full enclosure, screen the noisy plants including air compressor and generator.</li> </ul>	

Working Period: 1st to 31st March 2023

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
\$5.7		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	
			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.	

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

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 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.	Image: Constraint of the series of the se
				Do not discharge any sewage or wastewater into the nearby environment

Working Period: 1st to 31st March 2023

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			
			<ul> <li>Provide training to workers on the importance of appropriate waste management procedures, including waste reduction, reuse and recycling.</li> </ul>	

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

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.	

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	CHIEMICAL MINS
			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	~ 3
			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				
				And
	Pond			
	habitat		Carrying out outside dry-season (from November to February next year), the construction works associated with the site formation in the Ecological	
	along		Area, stabilization of the bank of the old Shenzhen River meander,	
	alignment (mainly		Western Connection Road along Ha Wan Tsuen Road, to minimise	
	Ha Wan		disturbances to migratory birds/water birds;	
	Tsuen			and a second
	Road)			

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

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

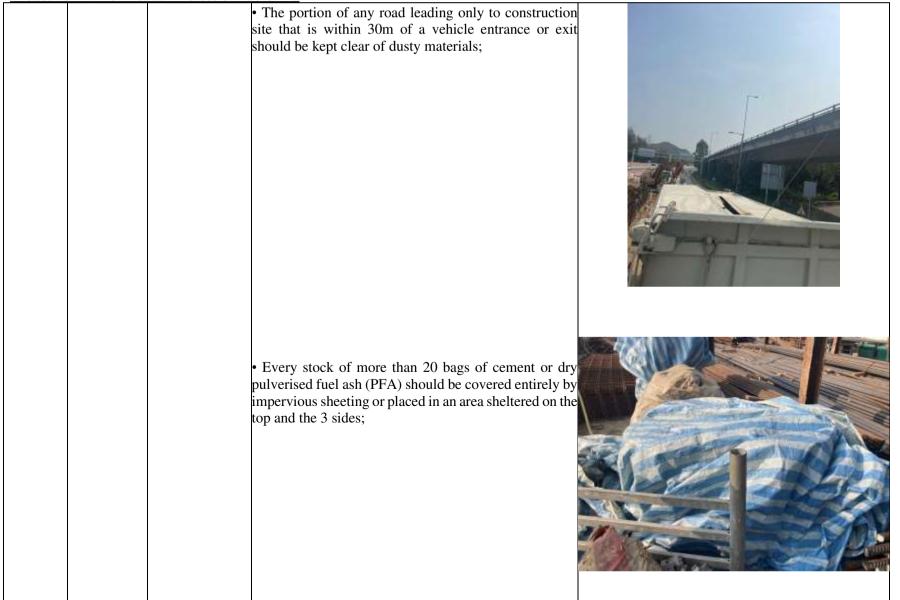
Ref*	Location/W orking Period	Anticipated Major Impacts	Recommended Mitigation Measures	Photo Records (Partial)
EIA S3.8	All site area		• Any excavated or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet and then removed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

## 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;	Astan

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

Proactive Environmental Protection Proforma



Working Period: 1<sup>st</sup> to 31<sup>st</sup> March 2023

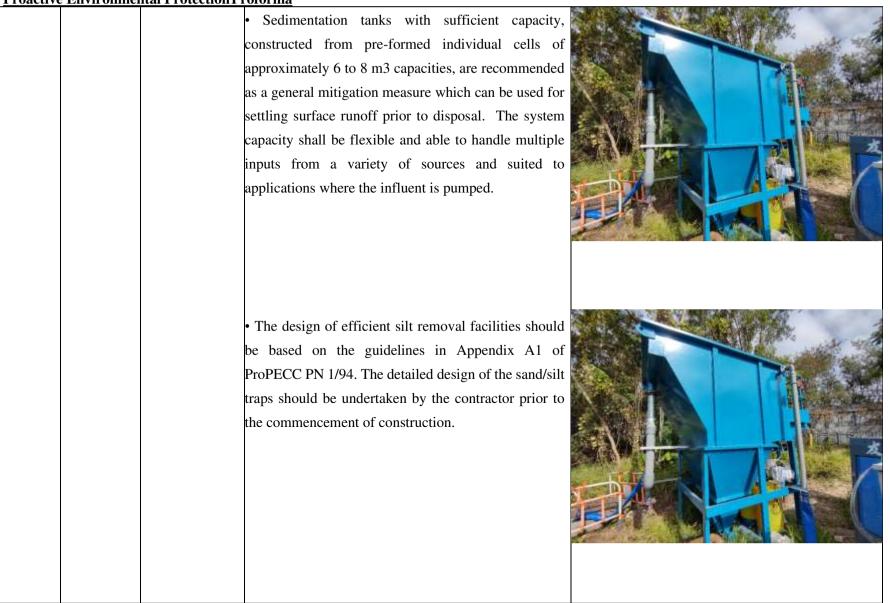
<ul> <li>Where practicable, vehicle washing facilities with high pressure water jet should be provided at every discernible or designated vehicle exit point. The area where vehicle washing takes place and the road section between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores.</li> </ul>

## 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 Proforms

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.	

ITOUCH		Ital Frotection F		
EIA	All site area		• At the start of site establishment, perimeter cut-off	1-2 - Carlos and a
S5.7		Control	drains to direct off-site water around the site should be	
			constructed with internal drainage works and erosion	
			and sedimentation control facilities implemented.	
			Channels (both temporary and permanent drainage	
			pipes and culverts), earth bunds or sand bag barriers	
			should be provided on site to direct stormwater to silt	
			removal facilities. The design of the temporary on-site	
			drainage system will be undertaken by the contractor	
			prior to the commencement of construction.	
			• Diversion of natural stormwater should be provided as far as possible. The design of temporary on-site drainage should prevent runoff going through site surface, construction machinery and equipment in order to avoid or minimize polluted runoff.	

Working Period: 1st to 31st March 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 **Proactive Environmental Protection Proforma**

All drainage facilities and erosion and sediment





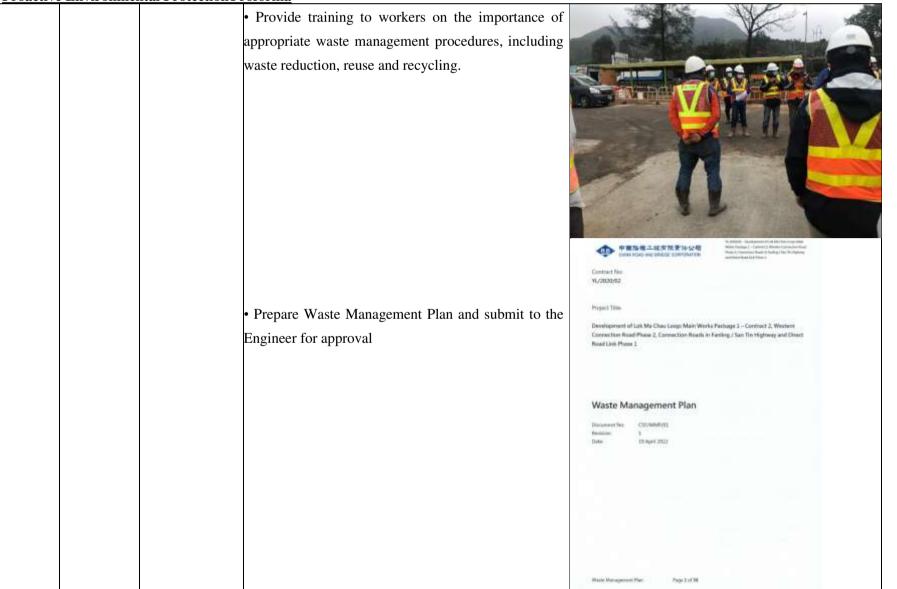
ITOUCTIV		loioima				
		<ul> <li>Notices should be posted at consp</li> </ul>	picuous locations to			
		remind the workers not to discha	arge any sewage or	-		
		wastewater into the nearby envir	conment during the		the same the same	
		construction phase of the	Project. Regular			
		environmental audit on the constru	iction site should be	A .	嚴禁排放污水	
		conducted in order to provide an	effective control of		污染附近環境	A list
		any malpractices and achieve cont	tinual improvement			
		of environmental performance on s	site.		-	
					A. 1	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 Proactive Environmental Protection Proforma

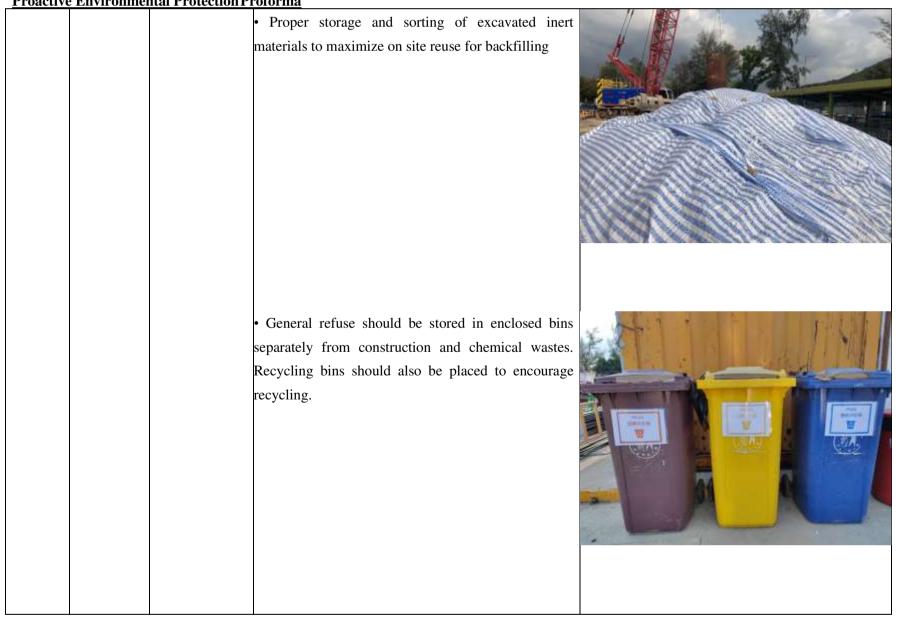
Ref*	active Environmental Protection Proforma           *         Location/         Anticipated         Recommended Mitigation Measures         Planting and the pla			Photo Records (Partial)
	Working	Major Impacts		
	Period			
EIA	All site area	Waste	• Segregate and store different types of waste in	
\$7.6			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/2020/02 Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 2 Western Connection Road Phase 2, Connection Roads to Fanling/ San Tin Highway and Direct Road Link Phase 1

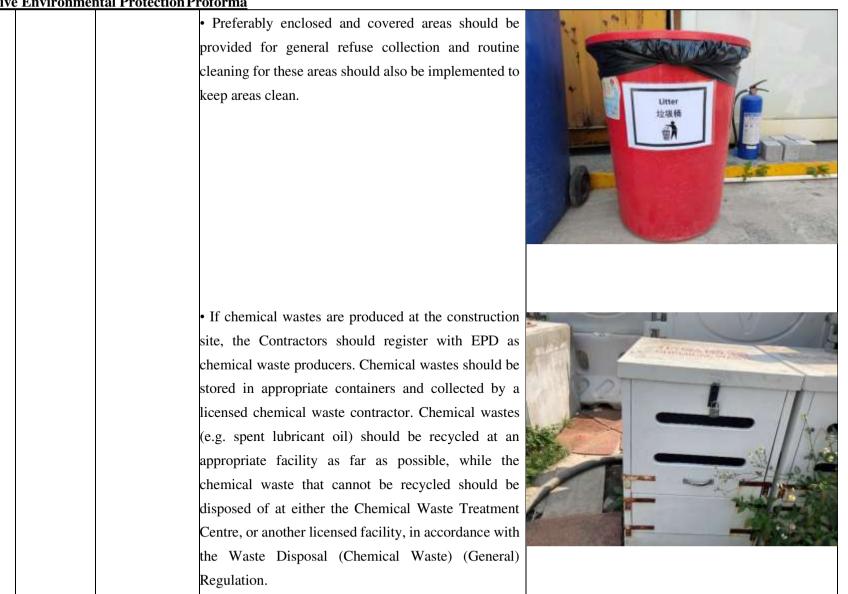
Proactive Environmental Protection Proforma



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



Working Period: 1st to 31st March 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

<b>Proactive</b>	<u>e Environmer</u>	ntal Protection P	roforma

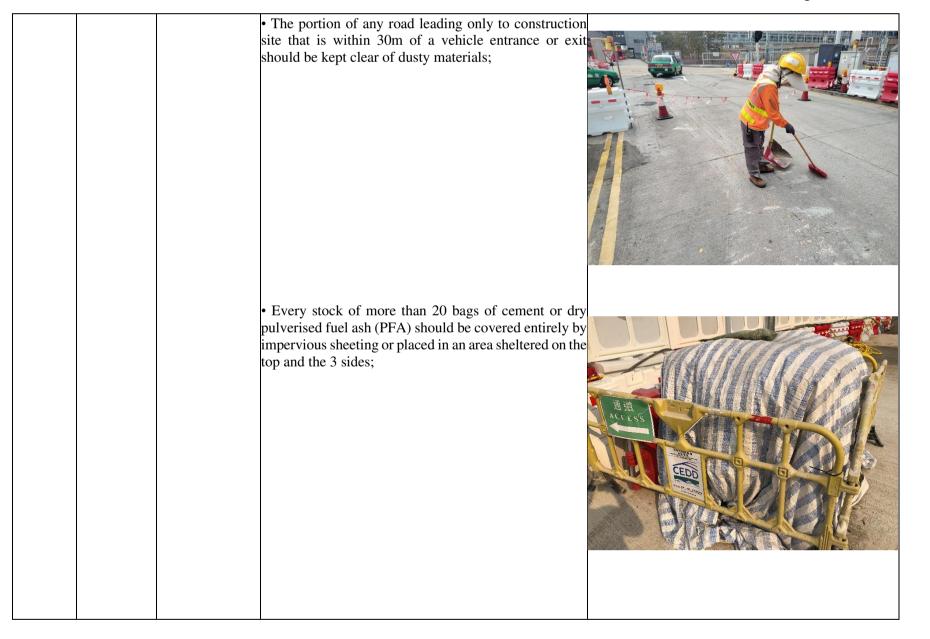
Ref*	Location/	Anticipated	<b>Recommended Mitigation Measures</b>	Photo Records (Partial)
	Working	Major Impacts		
	Period			
EIA	All site area	Ecology	• Use opaque, non-transparent, non-reflective noise	
S12.7			barriers for all developments associated with the Project.	
			• On-site compensate the same area of the occupied reedbed	

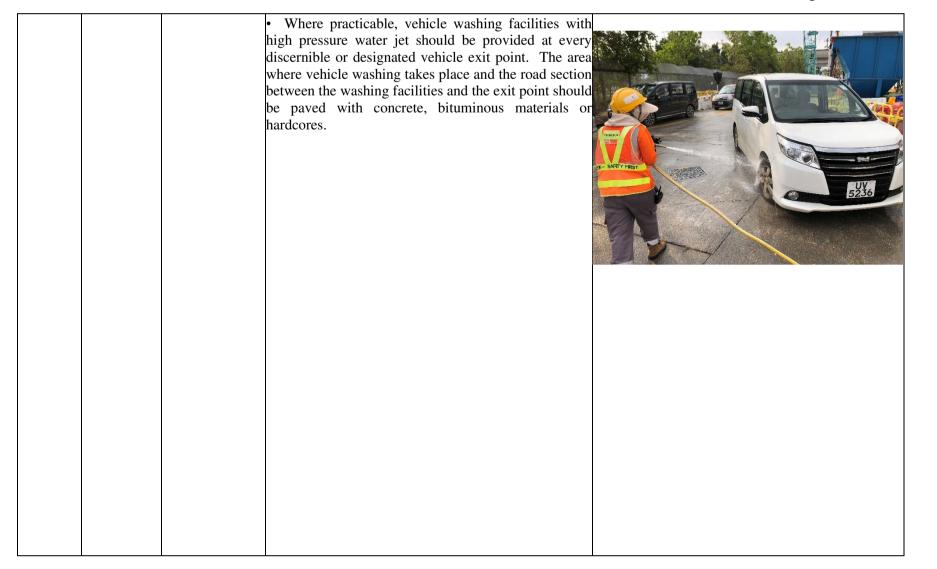
# Contract No. YL/2021/01 – Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 3 Direct Road Link Phase 2

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;	

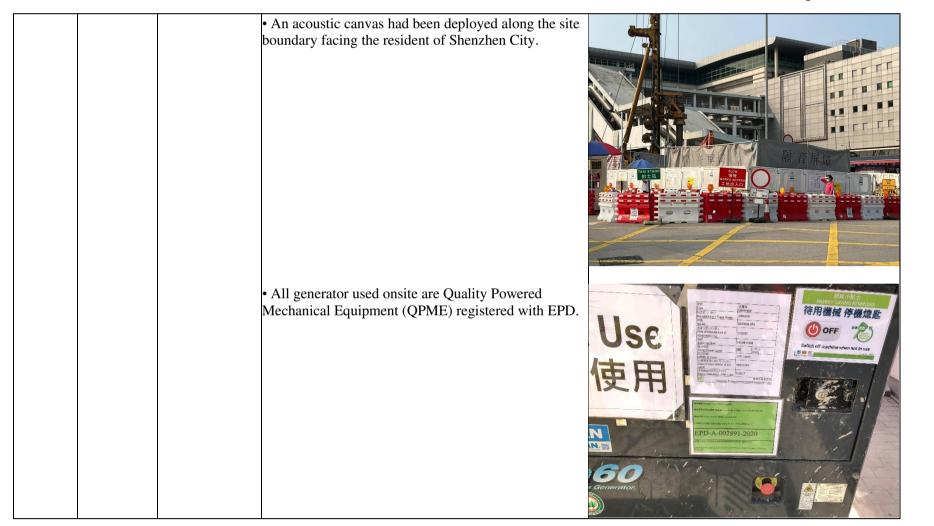
#### Contract No. YL/2021/01 – Contract No.: YL/2021/01 Development of Lok Ma Chau Loop: Main Works Package 1 – Contract 3 Direct Road Link Phase 2 <u>Proactive Environmental Protection Proforma</u>

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





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

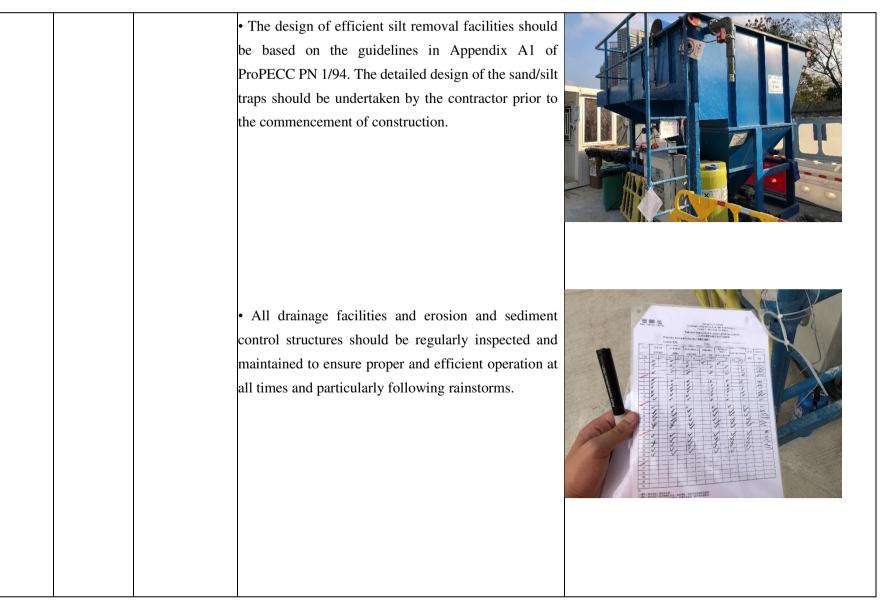


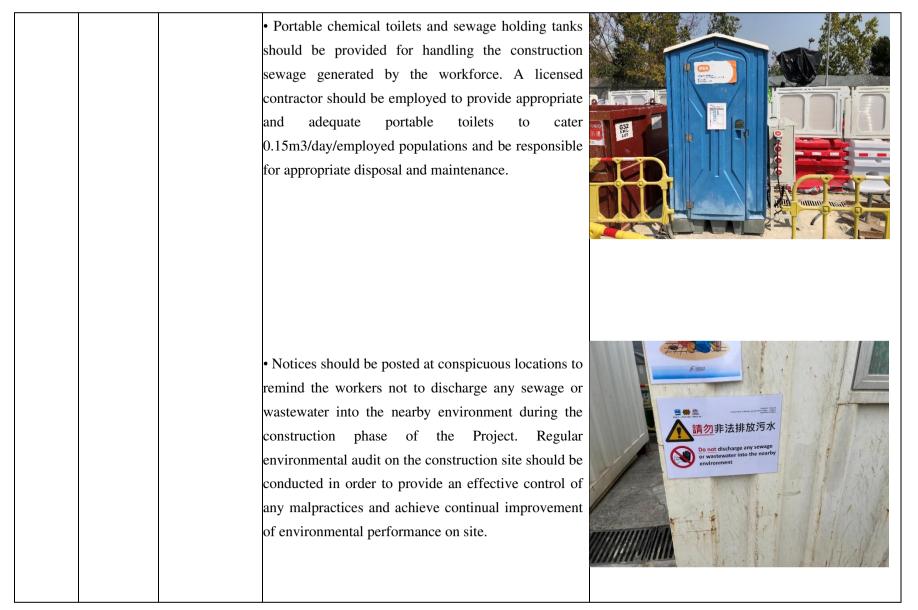
All site area		• Update and implementation of Stormwater Pollution	<u>*(2010) 5 years</u> Gentrates the TV,7223200      Part - Chair Me. Trace 200      Development of Lok this Chair Logor Main Works Package 1      Centrate 3 - Direct Meal July Phane 2
	Control	Control Plan.	CONTRACTOR'S SUBMISSION FORM           To         : ASCOM           Attraction         Mr. Store Monotonia
			Submission Ref. No. : Car/St/20008A
			Det ef Salministen         1; Dec 2022           Title of Salministen         1; Tongorary Drrings; Management Pfus; [Ten. 1]           Projece Location of Works         1; Tongorary Drrings; Management Pfus; [Ten. 1]
			Specification/Jowaning References: P.S. (Base 1.24A Description Concester Pursoning to P.S. (Base 1.24(A), We would like to submit the captioned subject for your review and
			Attachments :
			Ray's required by :           Purpose of Submission :           For Agrowind Fill           For Agrowind Fill           For Agrowind Fill
			PROM         Prepared link         Personal field         Approximation           Prepared by:         Reviewed by:         Approximation         Approximation           This         Gradwate Typics         Reviewed by:         Sile Approximation
			Signature         Image: Contraction of the contraction o
			* un zahr Smither Ser 26. I- Milly Li Ivatura (Pr Anna F An
		• 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	par 1
		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.	
	All site area	Control	

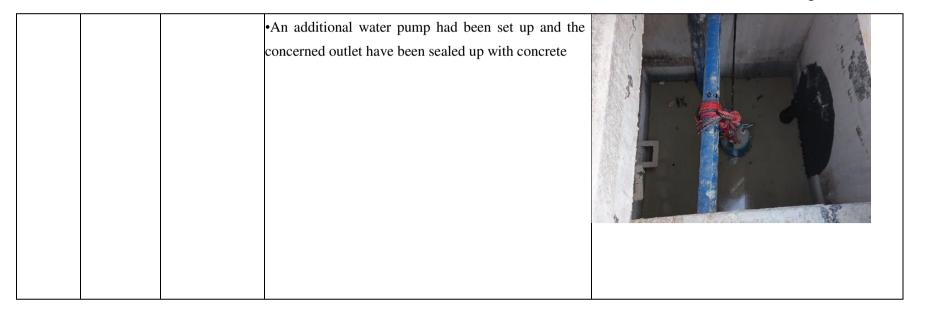
# Working Period: 1st to 31st March 2023

NO LIFTING 嚴 埜 吊 運

Diversion of natural stormwater should be provided as far as possible. The design of temporary on-site drainage should prevent runoff going through site surface, construction machinery and equipments in order to avoid or minimize polluted runoff. Sedimentation tanks with sufficient capacity, constructed from pre-formed individual cells of 0 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 e capacity shall be flexible and able to handle multiple inputs from a variety of sources and suited to applications where the influent is pumped.

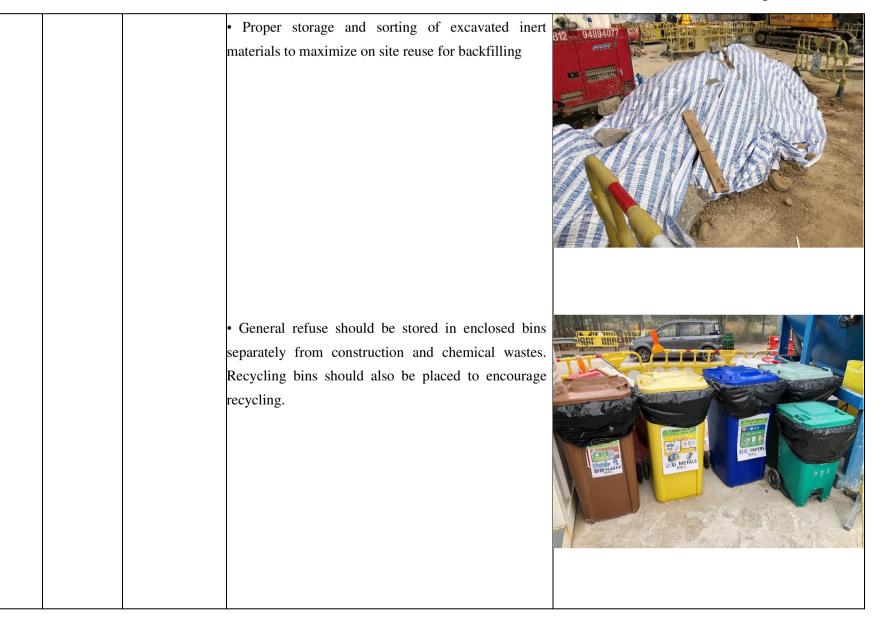




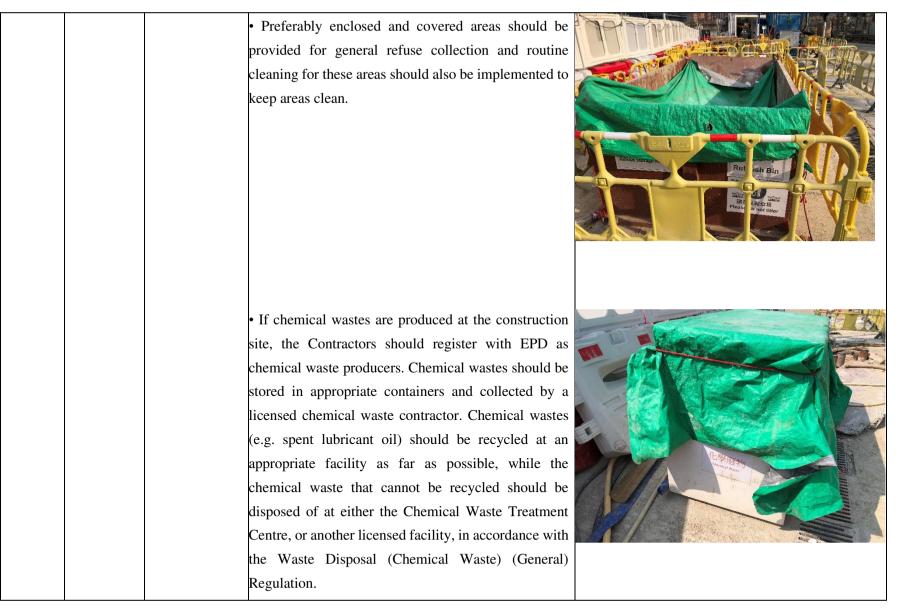


Ref*	Location/	Anticipated	Recommended Mitigation Measures	Photo Records (Partial)
	Working	Major Impacts		
	Period			
EIA	All site area	Waste	• Segregate and store different types of waste in	
S7.6			different containers, skip or stockpiles to enhance reuse or recycling of materials and their proper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

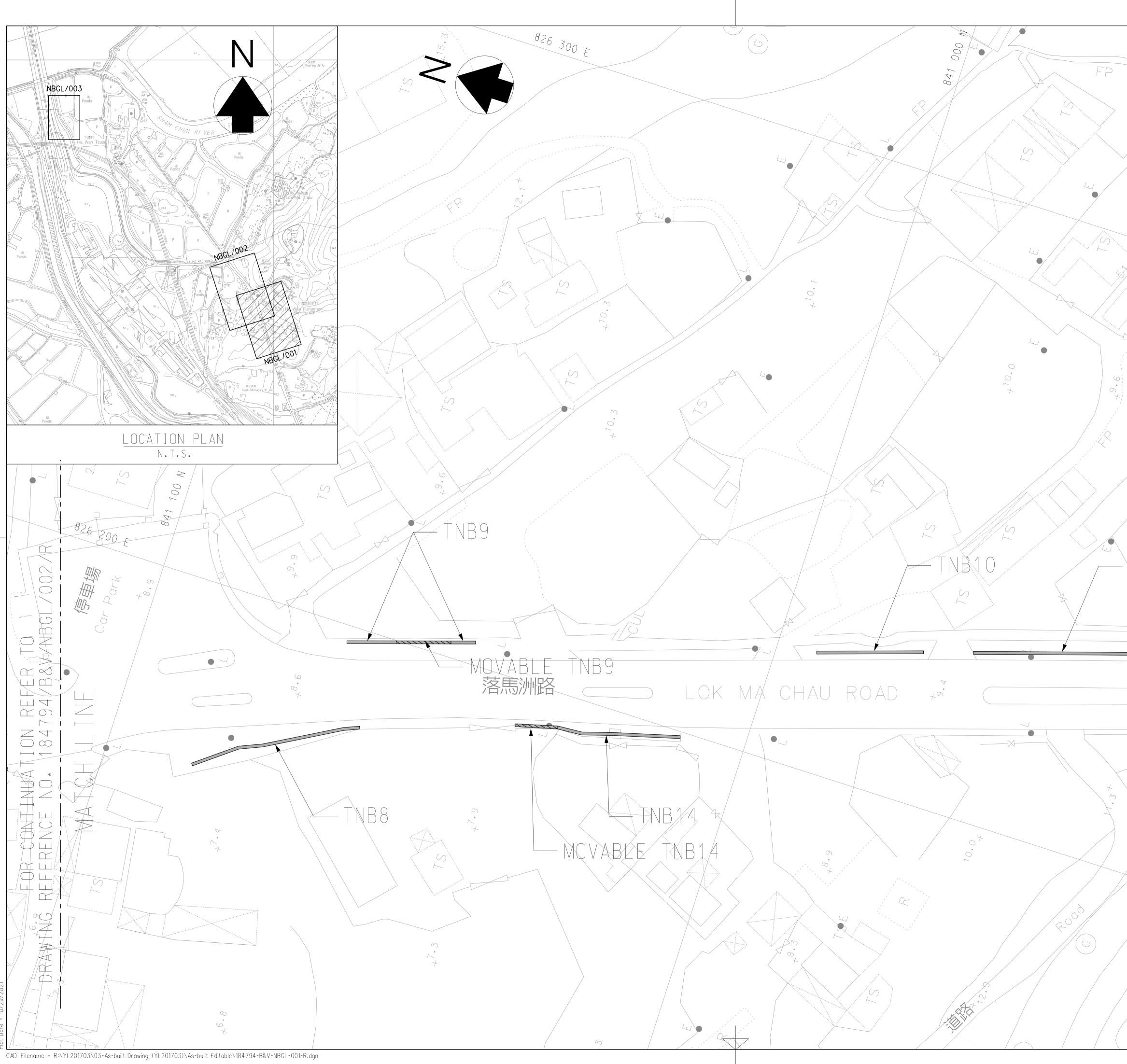
	• Provide training to workers on the importance of	
	appropriate waste management procedures, including	
	waste reduction, reuse and recycling.	
	• Prepare Waste Management Plan and submit to the	Paul Y Chun Wo - CRCC JV Development of Lok Ma Chau Loop: Main Work's Package 1 - Contract 3 Direct Road Link Phase 2
		CONTRACTOR'S SUBMISSION FORM
	Engineer for approval	To : AECOM
	8	Attention : Mr. Roger Man (Project Manager's delegate)
		Submission Ref. No*. : CSF/HSE/000005D AECOM Ref. No. : -
		Date of Submission : 15 August 2022
		Title of Submission : Waste Management Plan (Rev.04)
		Proposed Location of Works : - Specification/Drawing Reference: PS Clause 25.20A(7)
		Description of Content :
		In response to the comments in your letter ref. C3/(YL202)/01)/C15/310/08000199, we would like to re-submit the Waste Management Plan (Rev.04) for your approval.
		Attachments : Waste Management Plan Rev.4
		Reply required by : 21 days
		Purpose of Submission :       For Approval √       For Comment □       For Record □       For Action □
		FROM : Paul Y - Chun Wo - CRCC. Joint Venture
		Prepared by: Reviewed by: Approved & submitted by: Environmental Officer HSE Manager Site Agent
1		Ittle (Lila Lui) (Lee Wong) (Desmond Tang)
		Signature         Mm         June
		and an uniform the standard standa



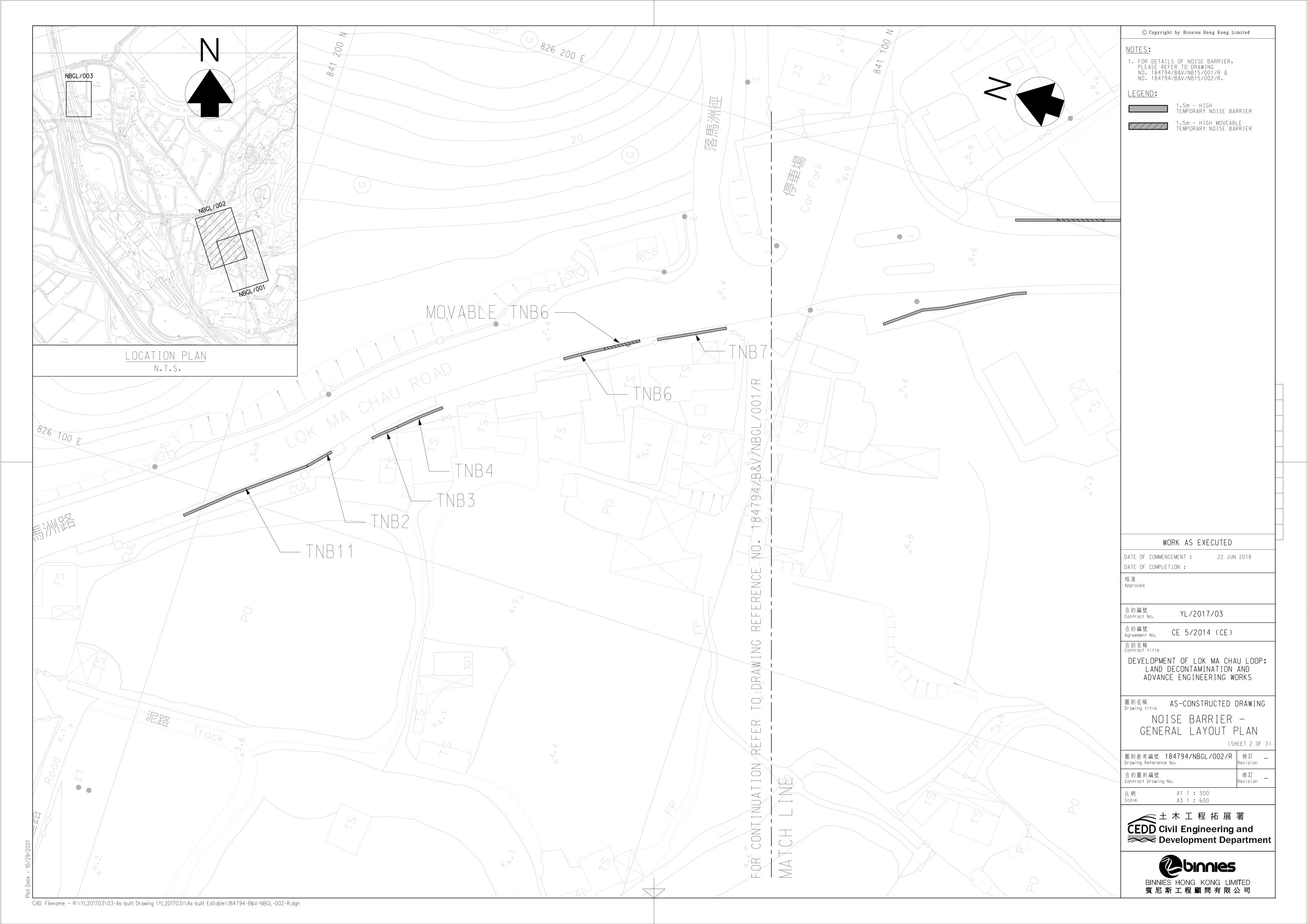
## Working Period: 1st to 31st March 2023

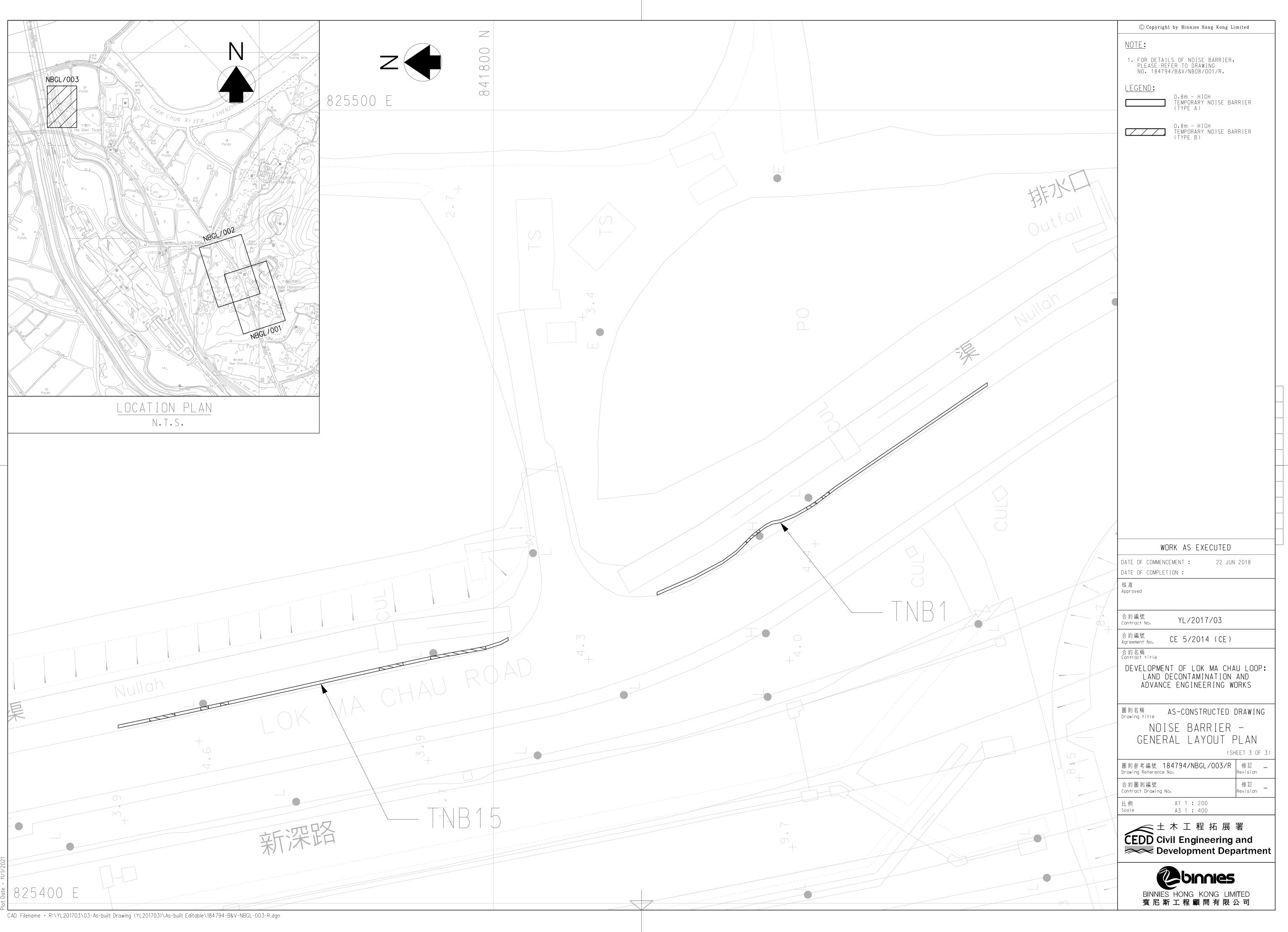


APPENDIX N TEMPORARY NOISE BARRIERS



	© 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	

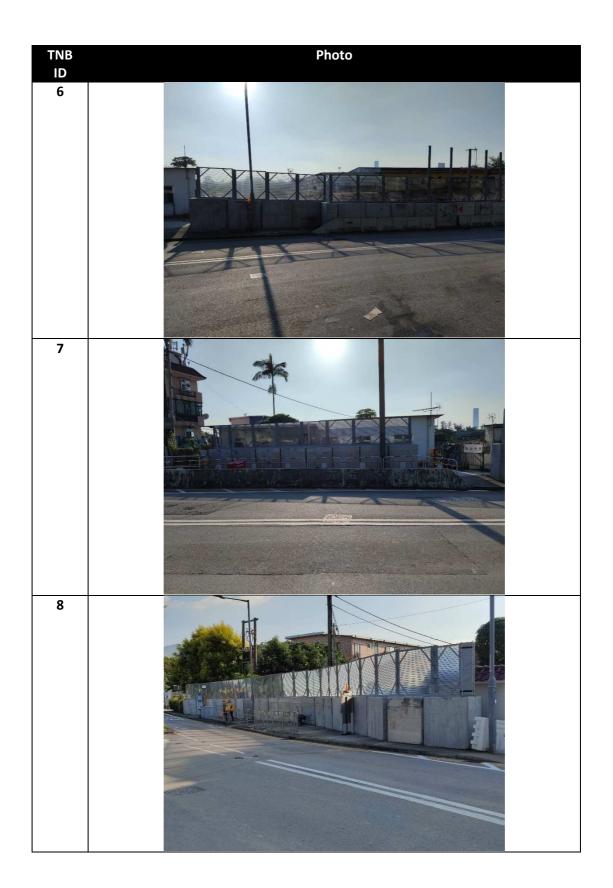
TNB ID	Photo
TNB9	
TNB10	
TNB13	

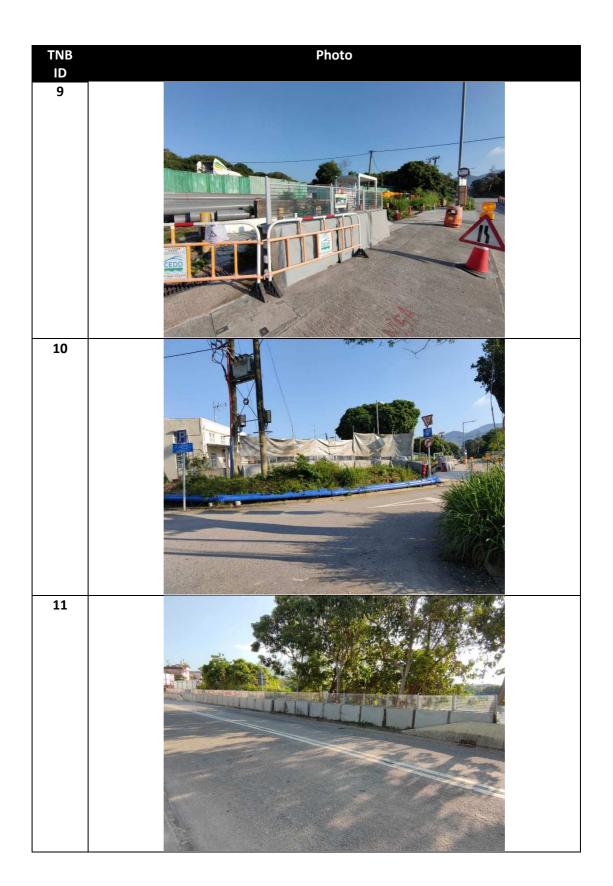
TNB ID	Photo
TNB14	TNB14
TNB15	PT/06/2020

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

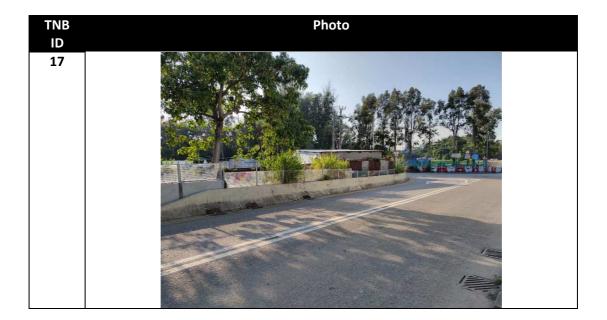


Record Photographs for Temporary Noise Barriers at Lok Ma Chau Road









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 2023 (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 Others, e.g. Generated Plastics Chemical Broken the Contract other Projects Public Fill Imported Fill cardboard Yard Waste Metals Month (a)= general refuse Waste Concrete (c) (d) (e) packaging/ (b)+(c)+(d)+(e) (b)  $(in '000m^3)$ (in '000m<sup>3</sup>)  $(in '000m^3)$ (in '000 kg) (in '000kg) (in '000kg) (in '000kg) (in '000kg) (in '000m<sup>3</sup>)  $(in '000m^3)$ (in '000m<sup>3</sup>) (in '000m<sup>3</sup>) 0.491 0.067 0.000 Jan-23 0.000 0.000 0.000 0.491 0.919 0.000 0.000 0.000 0.018 0.000 0.715 0.000 Feb-23 0.715 0.000 0.000 0.000 0.000 0.150 1.100 0.000 0.027 1.129 0.032 Mar-23 0.000 0.000 0.000 1.129 0.000 0.012 0.132 0.016 0.000 0.000 Apr-23 Mav-23 Jun-23 2.335 2.335 Sub-total 0.000 0.000 0.000 0.919 0.012 0.349 0.016 1.100 0.000 0.076 Jul-23 Aug-23 Sep-23 Oct-23 Nov-23 Dec-23 2.335 0.000 0.000 Total 0.000 2.335 0.919 0.012 0.349 0.016 1.100 0.000 0.076

Remarks:

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

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

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

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

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

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

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 Faning / San Tin Highway and Direct Road Link Phase I       Contract No.: YL/2020/02         Actual Quantities of Inert C&D Materials Generated Monthly       Actual Quantities of C&D Wastes Generated Monthly										
		Actual Quantit	ies of Inert C&	D Materials Gei	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 <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	$(in '000 m^3)$
Jan	0.432	0.000	0.000	0.000	0.432	0.000	0.000	0.000	0.000	0.000	0.428
Feb	0.257	0.000	0.000	0.000	0.257	0.095	0.000	0.000	0.000	0.000	0.403
Mar	1.359	0.000	0.000	0.000	1.359	0.090	0.000	0.004	0.001	0.000	0.171
Apr	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
May	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Jun	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Sub-total	2.048	0.000	0.000	0.000	2.048	0.185	0.000	0.004	0.001	0.000	1.001
Jul	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Aug	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Sep	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Oct	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Nov	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Dec	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total	2.048	0.000	0.000	0.000	2.048	0.185	0.000	0.004	0.001	0.000	1.001

Contract No · YI /2020/02

Note:

1. For non-inert portion of C&D material, assume the density of 1 m<sup>3</sup> general refuse is equal to 200 kg.

2. For inert portion of C&D material, assume  $6 \text{ m}^3$  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	relopment 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 <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )	
Jan-23	0.597	0.000	0.000	0.000	0.597	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Feb-23	0.329	0.000	0.000	0.000	0.329	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Mar-23	0.707	0.000	0.000	0.000	0.707	0.000	0.011	0.000	0.005	0.000	0.000	0.001	
Apr-23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
May-23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Jun-23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Sub-total	1.633	0.000	0.000	0.000	1.633	0.000	0.011	0.000	0.005	0.000	0.000	0.001	
Jul-23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Aug-23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Sep-23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Oct-23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Nov-23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Dec-23	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	
Total	1.633	0.000	0.000	0.000	1.633	0.000	0.011	0.000	0.005	0.000	0.000	0.001	

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.	o. Complaint Nature Investigation Fin		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- 2021- 10-01	11 October 2021	EPD	EPD File Ref.: N07/RN/00 024120-21	EPD received a public complaint on 11 October 2021. The complainant alleged the following: (a) Discharge of muddy water from construction sites of "Development of Lok Ma Chau Loop" project to Shenzhen River in the morning of 8 October 2021; and, (b) Use of powered	Non-project related According to the interim report, wastewater treatment facilities and relevant mitigation measures were properly implemented and there is no direct evidence to demonstrate the muddy discharge was inducted by the Contract. Further preventive measures, such as increasing the height of the temporary drainage by using sandbag and providing the earth bund with geo-textile along the site boundary, were implemented on 12 October 2021 in order to avoid	Oct 2021
				mechanical equipment (including excavators and dump trucks) in the construction sites of "Development of Lok Ma Chau Loop" project on Sunday.	Project related	

Log Ref.	Date of Complaint	Complaint Route	Reference No.	Details of Complaint	Investigation Finding	Status
					<ul><li>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&amp;A manual recommendation and requirements are complied with.</li><li>In addition, the Contractor was also reminded to prepare a contingency plan for emergency environmental incidents.</li></ul>	
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.	<ul> <li>According to the interim report, dust mitigation measures have been properly implemented on site:</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>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.</li> <li>Induction training and tool box talk have been provided to the site staff and workers regarding the dust suppression measure.</li> <li>Temporary covers have been provided to stockpile of the dusty materials and the exposed slope.</li> </ul>	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	Interim report was submitted to EPD on 14 Feb 2022

Log Ref.	Date of Complaint	Complaint Route	Reference No.	Details of Complaint	Investigation Finding	Status
COM-	4 April 2022	1823	1823 Case	The complainant concerned	<ul> <li>construction works of the Contract YL/2020/01.</li> <li><u>Contract No.: YL/2020/02</u></li> <li>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.</li> <li>Based on the above information and investigation findings, the noise complaint is not related to the construction works of the Contract YL/2020/02.</li> <li>According to the interim report, no construction works</li> </ul>	Final reply to
2022- 04-01	4 April 2022	1823	no: 3- 715542674 8	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.	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	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 <sup>th</sup> 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	Contract No.: YL/2020/02InIbout the muddy waterJoint site investigation with RSS was carried out on 5 AugInIbout the public area2022 near Fu Tai Carpark. There were no constructionInIbout the public areaworks carried out near Fu Tai Carpark and no muddyInIbout the public areaworks carried out near Fu Tai Carpark and no muddyInIbout the public areaworks carried out near Fu Tai Carpark and no muddyInIbout the public areaworks carried out near Fu Tai Carpark and no muddyInIbout the public areawater was noted. Preventive measures (sand bag bund)InIbout the public areahad been provided.In		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 <sup>th</sup> and 28 <sup>th</sup> 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
COM- 2023-	15 February 2023	EPD	EPD File Ref.:	for reference, and did not indicate where he/she was affected by the construction noise. The complaint was lodged by a resident of Shenzhen City	<u>Contract No.: YL/2021/01</u>	Interim report was submitted
02-01	2023		Rei.: N06/RN/00 004267-23)	a resident of Shenzhen City '"附上落马洲工程夜间持 续到现在还在工作的视 频,轰隆声非常影响我们 住在对面深圳居民的休 息!希望能得到改善!不 要在夜间扰民!谢谢!". Two short videos were attached in EPD's email dated 15 February 2023.	According to the interim report, piling works were carried out by the Contractor from 09:00 to 23:00 with valid construction noise permit under Contract YL/2021/01 of the Public Transport Interchange of Lok Ma Chau MTR Station. Noise monitoring was conducted for works during the restricted hours and no exceedance was recorded. The duration of working time for core demoulding and casting extraction were also minimized in order to reduce noise levels. Acoustic canvas sheets were installed to enclose the engine of used PME and deployed along the site boundary facing the resident of Shenzhen City to minimize the noise generated from works and the impact to the nearby resident. For enhancement, a 3m high noise barrier was installed next the rotary drilling rig on 15 February 2023. All night works were reviewed and suspended until 19 February 2023.	was submitted to EPD on 24 Feb 2023
COM- 2023-	3 March 2023	EPD	EPD File Ref.:	The complaint was lodged by a resident of Shenzhen City	Contract No.: YL/2021/01	Interim report was submitted
03-01	2023		N06/RN/00	"附件有视频,拍不到做工	According to the interim report, the piling works were	to EPD on 17

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

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 KI – Avifauna	Monitoring Results (Ponc	112)				
					Date	1 <sup>st</sup> March 2023
					Weather Condition	Sunny
			Hong		Abun	dance
Common Name	Species Name	Chinese Name	Kong Status	Conservation Status	Maximum count of b (Point Count – 1	_
					Before Construction	ance rd species recorded
Barn Swallow	Hirundo rustica	家燕	PM, Sv			2
Black-collared Starling	Gracupica nigricollis	黑領椋鳥	R		3	6
Black Drongo	Dicrurus macrocercus	黑卷尾	Sv			1
Black Kite	Milvus migrans	黑鳶	R, WV			3
Chinese Bulbul	Pycnonotus sinensis	白頭鵯	R		2	2
Chinese Pond Heron	Ardeola bacchus	池鷺	R	PRC(RC)	1	
Crested Myna	Acridotheres cristatellus	八哥	R		2	4
Great Cormorant	Phalacrocorax carbo	普通鸕鶿	CWV	PRC	5	5
Great Egret	Ardea alba	大白鷺	R, WV	PRC(RC)		1
Grey Heron	Ardea cinerea	蒼鷺	WV	PRC		1
Japanese White-eye	Zosterops japonicus	暗綠繡眼 鳥	R		1	
Jungle Crow	Corvus macrorhynchus	大嘴烏鴉	R			1
Little Egret	Egretta garzetta	小白鷺	R	PRC(RC)		1
Oriental Magpie-Robin	Copsychus saularis	鵲鴝	R		1	1

					Date	1 <sup>st</sup> March 2023			
					Weather Condition	Sunny			
		Chiman	Hong	Commention	Abund	lance			
Common Name	Species Name	Chinese Name	Kong Status	Conservation Status		of bird species recorded – 15 mins interval)			
					Before Construction	During Construction			
Plain Prinia	Prinia inornata	純色鷦鶯	R		1				
Red-whiskered Bulbul	Pycnonotus jocosus	紅耳鵯	R		1	2			
White-throated Kingfisher	Halcyon smyrnensis	白胸翡翠	R		1	1			
Yellow-bellied Prinia	Prinia flaviventris	黃腹鷦鶯	R			4			
	Total No. of Sp	10	15						
	No. of Birds Rec	18	35						

					Date	6 <sup>th</sup> March 2023		
					Weather Condition	Sunny		
		Chinese	Hong	Conservation	Abun	dance		
Common Name	Species Name	Name	Kong	Status	Maximum count of <b>b</b>	oird species recorded		
			Status	Status	(Point Count – 1	15 mins interval)		
					Before Construction	-		
Barn Swallow	Hirundo rustica	家燕	PM, Sv		1	2		
Black-collared Starling	Gracupica nigricollis	黑領椋鳥	R		9	18		
Black Kite	Milvus migrans	黑鳶	R, WV			2		
Chinese Bulbul	Pycnonotus sinensis	白頭鵯	R		6	3		
Chinese Pond Heron	Ardeola bacchus	池鷺	R	PRC(RC)	1			
Common Myna	Acridotheres tristis	家八哥	UR			2		
Crested Myna	Acridotheres cristatellus	八哥	R			2		
Great Cormorant	Phalacrocorax carbo	普通鸕鶿	CWV	PRC	6	6		
Grey Heron	Ardea cinerea	蒼鷺	WV	PRC		2		
Plain Prinia	Prinia inornata	純色鷦鶯	R			1		
Purple Heron	Ardea purpurea	草鷺	R	RC		2		
Red-billed Blue Magpie	Urocissa erythrorhyncha	紅咀藍鵲	R			1		
Red-whiskered Bulbul	Pycnonotus jocosus	紅耳鵯	R		3	3		
Stejneger's Stonechat	Saxicola stejnegeri	黑喉石䳭	WV		2			
Yellow-bellied Prinia	Prinia flaviventris	黃腹鷦鶯	R		1	6		
	Total No. of Spec	cies			8	13		

					Date	6 <sup>th</sup> March 2023			
					Weather Condition	Sunny			
	Succession Name	Chinaga	Hong	Componention	Abundance				
Common Name	Species Name	Chinese Name	Kong Status	Conservation Status	Maximum count of b (Point Count – 1	•			
					Before Construction	During Construction			
	No. of Birds R	lecorded	-		29	50			

					Date	15 <sup>th</sup> March 2023
					Weather Condition	Foggy & Sunny
		Chinese	Hong	Conservation	Abun	dance
Common Name	Species Name	Name	Kong Status	Status	Maximum count of b (Point Count – 1	
					Before Construction	During Construction
Black-collared Starling	Gracupica nigricollis	黑領椋鳥	R			2
Black Kite	Milvus migrans	黑鳶	R, WV			2
Chinese Pond Heron	Ardeola bacchus	池鷺	R	PRC(RC)	3	3
Cinereous Tit	Parus cinereus	蒼背山雀	R			1
Crested Myna	Acridotheres cristatellus	八哥	R		3	10
Great Cormorant	Phalacrocorax carbo	普通鸕鶿	CWV	PRC	2	
Grey Wagtail	Motacilla cinerea	灰鶺鴒	WV			1
Oriental Magpie-Robin	Copsychus saularis	鵲鴝	R			2
Plain Prinia	Prinia inornata	純色鷦鶯	R			1
Red-billed Blue Magpie	Urocissa erythrorhyncha	紅咀藍鵲	R			1
Red-whiskered Bulbul	Pycnonotus jocosus	紅耳鵯	R		6	2
Spotted Dove	Streptopelia chinensis	珠頸斑鳩	R		1	1
Stejneger's Stonechat	Saxicola stejnegeri	黑喉石䳭	WV			1
White-breasted Waterhen	Amaurornis phoenicurus	白胸苦惡 鳥	R			1
Yellow-bellied Prinia	Prinia flaviventris	黃腹鷦鶯	R		2	3

					Date	15 <sup>th</sup> March 2023		
		Chinasa			Weather Condition	Foggy & Sunny		
			Hong	Concernation	Abundance			
Common Name	Species Name	Chinese Name	Kong	Conservation Status	Maximum count of bird species recorded			
				Status	(Point Count – 15 mins interval)			
					Before Construction	During Construction		
	Total No. of Spec	ies			6	14		
	No. of Birds Recor	·ded			17	31		

					Date	22 <sup>nd</sup> March 2023
					Weather Condition	Fine
		Chinaaa	Hong	Conservation	Abund	dance
Common Name	Species Name	Chinese Name	Kong Status	Conservation	Maximum count of b (Point Count – 1	_
					Before Construction	During Construction
Barn Swallow	Hirundo rustica	家燕	PM, Sv		1	1
Black-collared Starling	Gracupica nigricollis	黑領椋鳥	R		1	3
Black Kite	Milvus migrans	黑鳶	R, WV		1	2
Chinese Bulbul	Pycnonotus sinensis	白頭鵯	R			1
Chinese Pond Heron	Ardeola bacchus	池鷺	R	PRC(RC)	1	1
Crested Myna	Acridotheres cristatellus	八哥	R		4	5
Oriental Magpie-Robin	Copsychus saularis	鵲鴝	R		1	1
Plain Prinia	Prinia inornata	純色鷦鶯	R			1
Red-whiskered Bulbul	Pycnonotus jocosus	紅耳鵯	R		5	7
Spotted Dove	Streptopelia chinensis	珠頸斑鳩	R		1	2
White-throated Kingfisher	Halcyon smyrnensis	白胸翡翠	R		1	1
Yellow-bellied Prinia	Prinia flaviventris	黃腹鷦鶯	R		5	6
	Total No. of Spe	cies			10	12
	No. of Birds Reco	rded			21	31

					Date	29 <sup>th</sup> March 2023
					Weather Condition	Drizzle
		China	Hong	Commention	Abund	lance
Common Name	Species Name	Chinese Name	Kong Status	Conservation Status	Maximum count of b (Point Count – 1	-
					Before Construction	During Construction
Barn Swallow	Hirundo rustica	家燕	PM, Sv		2	5
Black-collared Starling	Gracupica nigricollis	黑領椋鳥	R		3	2
Black Kite	Milvus migrans	黑鳶	R, WV		2	3
Chinese Bulbul	Pycnonotus sinensis	白頭鵯	R			2
Chinese Pond Heron	Ardeola bacchus	池鷺	R	PRC(RC)	1	
Crested Myna	Acridotheres cristatellus	八哥	R		2	3
White-shouldered Starling	Sturnia sinensis	灰背椋鳥	M, WV, Sv	LC		3
Yellow-bellied Prinia	Prinia flaviventris	黃腹鷦鶯	R		5	4
	Total No. of Spec		6	7		
	No. of Birds Reco	rded			15	22

Note:

- R Resident; WV Winter visitor; PM Passage migrant; CPM Common Passage Migrant; UPM Uncommon passage migrant; CaM Common autumn
- migrant; USV Uncommon Summer visitor; SpM Spring migrant; Sv Summer Visitor; UR Uncommon resident; SWV Scarce winter visitor; CWV -
- Common Winter Visitor; M Spring and Autumn Migrant; OV Occasional visitor
- Status was decided according to AFCD biodiversity website (www.hkbiodiversity.net)
- Cap. 170: All bird species are under protection of Wild Animals Protection Ordinance
- Cap.586 : Endangered Species of Animals and Plants Ordinance (Cap.586)
- CR: Rare in China Red Data Book Status
- VU: Vulnerable in IUCN Red List Status
- (VU): Vulnerable in China Red Data Book Status
- EN: Endangered in IUCN Red List Status
- (EN): Endangered in China Red Data Book Status
- NT: Near Threatened in IUCN Red List Status
- CR: Critically Endangered in IUCN Red List Status

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

Common Name	Species Name	Chinese Name	Date: 3 <sup>rd</sup> M	arch 2023								
			Weather Co	ondition: Su	nny							
			Counts									
			Transect Walk									
			Day Transect Night Transect									
			WAL	AFP	Others	WAL	AFP	Others				
Chinese Bullfrog	Hoplobatrachus rugulosus	虎紋蛙	0	0	0	0	0	0				
Remarks:												
It was observed that	the shallow agricultural ponds where	here Chinese Bullfrog	were recorded	d has been al	tered into relat	ively dry agri	cultural land	s, which				
may have an effect of	on the local Chinese Bullfrog popu	ulation.										

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Note:

WAL - Wet Agricultural Land, AFP - Abandoned Fishpond

# Appendix R3 – Aquatic Fauna (Rose Bitterling) Survey Results

Common Name	Species Name	Chinese Name	Date:	27 <sup>th</sup> Ma	rch 202	3				
			Weath	Weather Condition: Overcast						
			Counts							
			Location(s)							
			<b>S1</b>	S2	<b>S</b> 3	<b>S4</b>	A1	A2	B1	B2
Rose Bitterling	Rhodeus ocellatus	高體鰟鮍	Direct	Observa	ation:					
			0	0	0	0	0	0	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 08-Mar-23

Location	Weather	Start	Tempera	ture (°C)	p	iΗ	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	14:03	23.5 23.6	23.6	7.8 7.8	7.8	0.1 0.1	0.1	85.1 84.7	84.9	7.2 7.2	7.2	5.4 5.4	5.4
A2	Sunny	13:47	23.3 23.2	23.3	8.4 8.4	8.4	0.1 0.1	0.1	83.5 83.4	83.5	7.1 7.1	7.1	5.1 5.1	5.1
B1	Sunny	13:41	24.8 24.8	24.8	10.1 10.1	10.1	0.1 0.1	0.1	223.5 223.7	223.6	18.5 18.5	18.5	30.8 31.1	31.0
B2	Sunny	13:34	25.5 25.3	25.4	10.1 10.1	10.1	0.1 0.1	0.1	230.8 231.5	231.2	18.9 19.0	19.0	33.1 33.2	33.2
S1	Sunny	14:10	22.7 22.6	22.7	7.6 7.6	7.6	0.2 0.2	0.2	38.8 38.3	38.6	3.4 3.3	3.4	65.3 62.1	63.7
S2	Sunny	13:56	22.0 22.0	22.0	8.2 8.1	8.2	0.1 0.1	0.1	87.2 86.4	86.8	7.6 7.6	7.6	6.4 6.3	6.4
S3	Sunny	13:20	22.5 22.5	22.5	8.4 8.3	8.4	0.2 0.2	0.2	84.4 84.3	84.4	7.3 7.3	7.3	8.7 8.8	8.8
S4	Sunny	13:28	23.3 23.3	23.3	7.7 7.7	7.7	0.1 0.1	0.1	73.4 73.2	73.3	6.3 6.3	6.3	11.4 11.5	11.5

## Service Contract No. WD/04/2020 Development of Lok Ma Chau Loop: Main Works Package 1 – Environmental Team Water Quality Monitoring Results on 17-Mar-23

Location	Weather	Start	Tempera	iture (°C)	р	Н	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	11:33	23.0 23.0	23.0	7.6 7.6	7.6	0.1 0.1	0.1	62.6 62.4	62.5	5.4 5.4	5.4	7.2 7.2	7.2
A2	Sunny	11:18	23.7 23.7	23.7	7.9 7.9	7.9	0.1 0.1	0.1	70.0 69.8	69.9	5.9 5.9	5.9	5.8 5.9	5.9
B1	Sunny	11:11	24.9 24.9	24.9	9.0 9.0	9.0	0.1 0.1	0.1	130.0 130.4	130.2	10.8 10.8	10.8	32.7 32.4	32.6
B2	Sunny	11:04	24.9 24.9	24.9	8.5 8.6	8.6	0.1 0.1	0.1	129.6 130.4	130.0	10.7 10.8	10.8	25.9 25.7	25.8
S1	Sunny	11:41	22.1 22.1	22.1	7.2 7.2	7.2	0.2 0.2	0.2	11.7 11.5	11.6	1.0 1.0	1.0	31.3 31.4	31.4
S2	Sunny	11:26	22.4 22.4	22.4	8.0 7.9	8.0	0.1 0.1	0.1	85.2 85.0	85.1	7.4 7.4	7.4	6.4 6.5	6.5
S3	Sunny	10:50	22.4 22.4	22.4	7.8 7.8	7.8	0.1 0.1	0.1	68.9 69.4	69.2	6.0 6.0	6.0	5.7 5.6	5.7
S4	Sunny	10:57	22.7 22.7	22.7	7.5 7.5	7.5	0.1 0.1	0.1	64.1 63.5	63.8	5.5 5.5	5.5	25.3 27.6	26.5

## Service Contract No. WD/04/2020 Development of Lok Ma Chau Loop: Main Works Package 1 – Environmental Team Water Quality Monitoring Results on 20-Mar-23

Location	Weather	Start	Tempera	iture (°C)	p	Н	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	10:11	23.1 23.1	23.1	7.4 7.4	7.4	0.1 0.1	0.1	48.6 48.4	48.5	4.2 4.1	4.2	6.0 6.0	6.0
A2	Sunny	09:56	23.1 23.1	23.1	7.7 7.7	7.7	0.1 0.1	0.1	58.2 57.7	58.0	5.0 4.9	5.0	6.5 6.3	6.4
B1	Sunny	09:48	23.0 23.0	23.0	8.3 8.3	8.3	0.1 0.1	0.1	105.9 106.2	106.1	9.1 9.1	9.1	40.9 38.6	39.8
B2	Sunny	09:42	22.9 23.0	23.0	8.3 8.3	8.3	0.1 0.1	0.1	107.4 107.6	107.5	9.2 9.2	9.2	32.8 33.0	32.9
S1	Sunny	10:18	22.4 22.4	22.4	7.0 7.0	7.0	0.1 0.1	0.1	9.3 8.9	9.1	0.8 0.8	0.8	29.0 29.0	29.0
S2	Sunny	10:04	22.4 22.4	22.4	7.6 7.6	7.6	0.1 0.1	0.1	77.7 77.5	77.6	6.7 6.7	6.7	4.8 4.9	4.9
S3	Sunny	09:27	22.3 22.3	22.3	7.9 7.9	7.9	0.1 0.1	0.1	66.3 65.8	66.1	5.8 5.7	5.8	5.2 5.2	5.2
S4	Sunny	09:34	22.2 22.2	22.2	7.4 7.4	7.4	0.1 0.1	0.1	57.2 57.0	57.1	5.0 5.0	5.0	15.9 15.8	15.9

## Service Contract No. WD/04/2020 Development of Lok Ma Chau Loop: Main Works Package 1 – Environmental Team Water Quality Monitoring Results on 27-Mar-23

Location	Weather	Start	Tempera	ture (°C)	p	ЪН	Salin	iity 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	Rainy	09:30	22.0 22.0	22.0	7.5 7.4	7.5	0.1 0.1	0.1	21.5 20.3	20.9	1.9 1.8	1.9	4.9 4.7	4.8
A2	Rainy	09:06	21.9 21.9	21.9	7.2 7.2	7.2	0.1 0.1	0.1	32.3 31.5	31.9	2.8 2.8	2.8	5.2 5.2	5.2
B1	Rainy	08:59	21.4 21.4	21.4	7.2 7.2	7.2	0.1 0.1	0.1	27.2 25.8	26.5	2.4 2.3	2.4	26.7 26.5	26.6
B2	Rainy	08:52	21.6 21.6	21.6	7.2 7.2	7.2	0.1 0.1	0.1	21.5 21.2	21.4	1.9 1.9	1.9	24.6 24.2	24.4
S1	Rainy	09:39	21.4 21.4	21.4	7.2 7.2	7.2	0.1 0.2	0.2	30.6 30.6	30.6	2.7 2.7	2.7	25.3 26.0	25.7
S2	Rainy	09:24	21.9 21.9	21.9	7.6 7.6	7.6	0.1 0.1	0.1	69.3 69.0	69.2	6.1 6.0	6.1	7.0 6.4	6.7
S3	Rainy	08:38	21.6 21.6	21.6	7.3 7.3	7.3	0.1 0.1	0.1	51.6 51.2	51.4	4.5 4.5	4.5	5.3 5.4	5.4
S4	Rainy	08:46	21.4 21.4	21.4	7.2 7.2	7.2	0.1 0.1	0.1	37.4 37.3	37.4	3.3 3.3	3.3	5.5 5.4	5.5