

JOB NO.: TCS01267/22

CEDD SERVICE CONTRACT NO. WD/07/2022

YUEN LONG SOUTH FIRST PHASE DEVELOPMENT - ENVIRONMENTAL TEAM

MONTHLY ENVIRONMENTAL MONITORING AND AUDIT Report – February 2024

PREPARED FOR Civil Engineering and Development Department

Date	Reference No.	Prepared By	Certified By
14 March 2024	TCS01267/22/600/R0145v2	Anh	Am

Nicola Hon (Environmental Consultant) Tam Tak Wing (Environmental Team Leader)

Version	Date	Remarks
1	12 March 2024	First Submission
2	14 March 2024	Amended according to the IEC's comments



Our Ref: TCS01267/22/300/L0148

AECOM 12/F, Grand Central Plaza, Tower 2 138 Shatin Rural Committee Road Shatin, Hong Kong

Attn: Mr. Alex Chan

15 March 2024 By email

Dear Sir,

Re: Contract No. WD/07/2022 Yuen Long South First Phase Development – Environmental Team Monthly Environmental Monitoring and Audit Report – February 2024

We would like to certify the captioned report pursuant to Condition 3.4 of the Environmental Permit No. EP-548/2018/A, EP-549/2018, EP-550/2018/A, EP-551/2018/A and EP-553/2018/A for the Yuen Long South First Phase Development.

Should you have any queries or require further information, please feel free to contact us or the undersigned at Tel: 2959-6059 or Fax: 2959-6079.

Yours sincerely, For and on Behalf of Ford Business International Limited

Tam Tak Wing Environmental Team Leader

Encl.

cc CEDD Telemax (IEC) Mr. Ng Kam Leung, Julian Mr. Nelson TAM

By email By email





Our Ref. : TEEM/816/24/L/066/JYT Job No. : TM0816-22 Date : 15 March 2024

AECOM Asia Co., Ltd. 12/F, Grand Central Plaza, Tower 2 138 Shatin Rural Committee Road Shatin, Hong Kong

Attn.: Mr. Alex Chan

Dear Alex,

Agreement No. WD/06/2022 Yuen Long South First Phase Development – Independent Environmental Checker Verification for Monthly EM&A Report (February 2024)

With reference to the Monthly Environmental Monitoring and Audit (EM&A) Report – February 2024 (Issue 2) as submitted by the Environmental Team in March 2024, we have no adverse comment on this submission which are related to designated projects. We are pleased to inform that we hereby verify the captioned submission in accordance with Condition 3.4 of the Environmental Permit No. EP-548/2018/A, EP-549/2018, EP-550/2018/A, EP-551/2018/A and EP-553/2018/A for the Yuen Long South First Phase Development.

elemax Environmental and Energy Management Limited

Should you have any queries, please do not hesitate to contact the undersigned at (852) 3610 8701 or our Mr. Michael Fong at (852) 3610 8706 or our Mr. Vince Lo at (852) 3610 8787 or our Mr. Jacky Tsang at (852) 3610 8735.

Yours faithfully,

For and on behalf of **Telemax Environmental and Energy Management Limited**

Ir Nelson Tam Independent Environmental Checker (IEC)

c.c. Ford Business International Ltd. (ET) - Attn: Mr. Tam Tak Wing / Ms. Nicola Hon

 $EM \ / \ NT \ / \ MF \ / \ VL \ / \ JYT$







By Email



EXECUTIVE SUMMARY

INTRODUCTION

ES.01 This is the Monthly Environmental Monitoring and Audit (EM&A) Report, presenting the monitoring results and inspection findings for the Project for the reporting period from 1st to 29th February 2024 (hereinafter called 'the Reporting Period).

ENVIRONMENTAL MONITORING AND AUDIT ACTIVITIES

ES.02 Environmental monitoring activities under the EM&A programme of the Project in the Reporting Period are summarized in the following table.

Environmental Aspect	Monitoring Parameter	Monitoring Station/ Location	Number of Monitoring
Air Quality	1-hour Total Suspended Particulates (TSP)	DM-1, DM-2	24 sessions
Noise	Leq30mins	CM1a, CM2a, CM3, CM4 and CM8a	20 sessions
Water Quality	Dissolved oxygen, dissolved oxygen saturation (DO%), temperature, turbidity, salinity, pH and suspended solids (SS)	M1a, M2a, M3, M4, U3, U4a, M5a, M6a, D2a, M7a, U1b, U2a & EIS-1a	11 days
	Site Audit for implementation	Contract 1	4 events
Site Inspection	of mitigation measures	Contract 2	4 events
		Contract 3	4 events

ACTION AND LIMIT (A/L) LEVELS EXCEEDANCE

ES.03 In the Reporting Period, no exceedances of air quality monitoring, construction noise (including Action Level for noise complaint). However. 2 Limit Level exceedance of water quality monitoring were recorded. The summary of exceedances recorded in the Reporting Period is shown table below.

Environmental	Monitoring	Action	Limit	Event & Action		1
Aspect	Parameters	Level	Level	NOE Issued	Investigation Result	Corrective Actions
Air Quality	1-hour TSP	0	0	0		
Construction Noise	L _{eq(30min)} Daytime	0	0	0		
	DO	0	0	0		
Water Quality	Turbidity	0	1	1	Not project related	Not required
	SS	0	1	1		

- ES.04 Once the exceedances detected by ET, notification were issued to ER, Contractor and IEC with preliminary investigation and on-site observation. The Contractor subsequently carried out detailed investigation and identified the source of impact. The investigation results of exceedances revealed the exceedances on 19 Feb 2024 were unlikely due to project, as there are no piling works or pre-drilling works to be conducted along concerns section (Shan Ha Road nullah), and there was no discharge made from the construction site. The investigation results have been agreed by the RE via email communication. Nevertheless, the Contractor was reminded to fully implement the water quality mitigation measure as far as practicable during the forthcoming construction work in the Nullah.
- ES.05 Bi-weekly inspection of landscape and visual impact and mitigation measures were conducted by ET during the weekly site inspection. It was observed that six individual trees under Contract 2 transplanted to the nursery site were in fair condition. For Contract 3, the transplanted trees in



the nursery site were in fair health condition, however, general refuse was found stored in the nursery site on 29 February 2024. The Contractor had promptly removed the general refuse in the following day.

ES.06 The Contractors are advised to implement the waste management plan and minimise the wastes generated through recycling or reusing. All mitigation measures stipulated in the Updated EM&A Manual and waste management plans shall be fully implemented.

SITE INSPECTION

ES.07 In the Reporting Period, weekly joint site inspection to evaluate the site environmental performance had been carried out by the representatives of the Consultants, ET and the respective Contractor of Contract 1, Contract 2 and Contract 3. No non-compliance was noted during the site inspection.

ENVIRONMENTAL COMPLAINT

ES.08 In the Reporting Month, no environmental complaint was received.

NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTIONS

ES.09 In the Reporting Month, no environmental summons and prosecutions were recorded.

REPORTING CHANGE

ES.10 There is no reporting change in the Reporting Period.

FUTURE KEY ISSUES

- ES.11 During dry season, the Contractor should fully implement the recommended air quality mitigation measures to minimize the impact of construction dust as far as practicable, in particular the contract works located near the village area.
- ES.12 Water quality mitigation measures shall be fully implemented in accordance with the Implementation Schedule for Environmental Mitigation Measures of the updated EM&A Manual.
- ES.13 Construction noise would be a key environmental issue during construction work of the Project. Noise mitigation measures such as using quiet plants and/ or using movable temporary noise barriers should be implemented as stipulated under EM&A Manual to ensure construction noise impacts at the NSRs comply with the noise criteria.



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1 INTRODUCTION

1.1 BACKGROUND

- 1.1.1 Yuen long South (YLS) is located to the immediate south of Yuen Long New Town and is positioned as Yuen Long New Town Extension. It will serve as one of the major sources of land supply to meet the territory's medium to long-term housing needs through comprehensive planning and improvement of infrastructure including the linkage to Yuen Long New Town and the Hung Shui Kui/Ha Tsuen New Development Area (HSK/HT NDA).
- 1.1.2 Planning Department (PlanD) and Civil Engineering and Development Department (CEDD) of the HKSAR jointly commissioned the Planning and Engineering Study (YLS P&E Study) under Agreement No. CE 35/2012 (CE) in November 2012 to carry out planning, engineering and environmental studies with view to formulating a development proposal for YLS Development. It confirmed the feasibility of implementing the proposal for YLS Development to meet the medium and long-term housing, social, economic and environmental needs, and formulated the implementation strategies and programme for the YLS Development with first population intake by the year of 2028.
- 1.1.3 YLS P&E Study Project is a Designated Project (DP) under Schedule 3 of the Environmental Impact Assessment Ordinance (EIAO). In November 2017, Environmental Impact Assessment (EIA) report for YLS Development was approved by Director of Environmental Protection pursuant to EIAO. The approved EIA report (AEIAR-215/2017), the approval letter with conditions and recommendations and the relevant Environmental Permit (EPs) issued subsequently. To implement the Project, there are various infrastructure items among some of which are classified as DPs under Schedule 2 of the EIA Ordinance.
- 1.1.4 Under the YLS P&E Study, YLS Development was tentatively to be implemented in four stages including Stage 1, Stage 2, Stage 3 and Stage 4. Subsequently, the Stage 2 is further split into (i) stage 2A (previously known as stage 2, phase 1) and (i i) stage 2B (previously known as stage 2 remaining works). The design and construction consultancies of YLS Development stage 1 works (under Agreement No. CE 32/2017 (CE)) and stage 2A works (under Agreement No. CE 58/2019 (CE)) commenced in February 2018 and March 2020 respectively. First population intake of YLS Development is expected in 2028.
- 1.1.5 Currently, YLS Development will be implemented by three phases, namely First Phase, Second Phase and Third Phase Development. The phasing plan of YLS Development is shown in *Appendix A*. The site formation and engineering infrastructure works to support the First Phase Development, covering stage 1 works and stage 2A works (hereafter referred to as "the Project") is funded under the following PWP items:
 - 1) PWP Item No. 7817CL Yuen Long South Development stage 1 works; and
 - 2) PWP Items No. 7872CL Yuen Long South Development stage 2 works site formation and engineering infrastructure and stages 2B and 3 works detailed design and site investigation.

1.2 PROJECT SCOPE

- 1.2.1 The scopes of the Project comprise the following principal work elements: <u>Works under PWP Item No. 7817CL :-</u>
 - (a) Site formation works and decontamination works, if any, for the Sites VR1.1, VR2.1 and R2.2
 - (b) Construction of Road L 1 A and L 18 including widening existing roads and construction of new roads, to provide access to the Site R2.2 and connect to Tai Tong Road and Tai Shu Ha Road West
 - (c) Construction of Road L2 to provide access to the Site VR2.1 and connect to Lam Tai West Road
 - (d) Construction of Road L3 to provide access to the Site VR1.1 and connect to Long Hon Road
 - (e) Construction of slopes and retaining walls associated with Road L 1 A and L 18
 - (f) Construction of Common Utility Tunnel along part of Lam Tai East Road and Road L 1A



- (g) Improvement of Kung Um Road/ Kiu Hing Road between Sham Chung Road and Shap Pat Heung Road and associated road junctions by decking of Yuen Long Nullah and modification of drainage structure at junction of Yuen Long Nullah and Yuen Long bypass Floodway
- (h) Provision of other infrastructure to serve the sites as mentioned in (a) above to be formed under the Project
- (i) Provision of associated road junction improvement, street lighting, traffic aids, utility diversion, geotechnical, drainage, sewerage, water supply landscaping and environmental mitigation works

Works under PWP Item No. 7872CL :-

- (a) Reconstruction of Tong Yan San Tsuen (TYST) Interchange and Associated Works
 - Construction of new primary distributor roads with partly depressed roads and underpass
 - Construction/ modification of slip roads
 - Construction of junction connecting TYST Interchange, Shan Ha Road and Long Hon Road
 - Construction of noise mitigation measures
 - Construction of associated footpaths, cycle tracks and subways
- (b) Construction of New Roads
 - Construction of Road 01 (Part) with associated footpaths, pedestrian crossing and refuge island
 - Construction of Road 02 (Part) with associated footpaths, pedestrian crossing and refuge island
 - Construction of eastbound left-turn lane at the approach road of Shap Pat Heung Interchange heading to Pok Oi Interchange
- (c) Site Formation for Multi-storey Building (MSB) Sites
 - Site Formation works and decontamination works
 - Realignmentl widening/ extension of a section of Tong Tai Road
- (d) Construction/ modification of section of Kung Um Road at south of Yuen Long Highway
- (e) Construction/ modification of section of Wong Nai Tun Tsuen Road and Kiu Hing Road
- (f) Construction/ modification of section of Lam Tai East Road and Lam Yu Road
- (g) Provision of associated road junction improvement, street lighting, traffic aids, utility diversion, geotechnical, drainage, sewerage, water supply, landscaping and environmental mitigation works

Works from other proiects to be entrusted

- (a) Construction of ON1600 watermains from HSK1HT NOA project
- 1.2.2 The Project will be delivered under three CEDD works contracts as below:-
 - (a) CEDD Contract No. YL/2021/03 Site Formation and Infrastructure Works for Yuen Long South First Phase Development Contract 1
 - (b) CEDD Contract No. YL/2021/04 Site Formation and Infrastructure Works for Yuen Long South First Phase Development - Contract 2 (the designated works of Contract 2 are governed by EP-549/2018 & EP-553/2018/A)
 - (c) CEDD Contract No. YL/2022/01 Site Formation and Infrastructure Works for Yuen Long South First Phase Development - Contract 3 (the designated works of Contract 3 are governed by EP-548/2018/A, EP-549/2018, EP-550/2018/A, EP-551/2018/A)
- 1.2.3 The general layout of YLS First Phase Development is are shown in *Appendix A*.

1.3 DESIGNATED WORKS

1.3.1 To implement the Project, there are various infrastructure items among some of which are classified as DPs under Schedule 2 of the EIA Ordinance. In general, the designated works of YLS First Phase Development are governed by five Environmental Permits. The relevant EPs under the YLS First Phase Development and the respective Work Contracts are summarized in Table 1-1 and the Schedule 2 Designated Project under YLS First Phase Development are shown in Appendix B.



Table 1-1 Summary of Schedule 2 Designated Project under YLS First Phase Development

DP Reference No.	ЕР	Designated Project	Contract Works	C2	C3
DP2	EP-548/2018/A	Construction of New Primary Dist ributor Roads (Tong Yan San Tsu en Interchange) for Housing Sites in YLS.	Reconstruction of Tong Yan San Tsuen Interchange		\checkmark
DP3	EP-549/2018	Construction of Two New District Distributor Roads (Road D1 to Road D2) for Housing Sites in YLS	C2: Construction of proposed Road D1, Road D2, Road L1A, Road L1B and slip road at the existing Shap Pat Heung Interchange C3: Improvement to sections of existing Shan Ha Road, Long Hon Road and Tong Tai Road, and other road works	\checkmark	\checkmark
DP5	EP-550/2018/A	Construction of Slip Roads at Ton g Yan San Tsuen Interchange for Housing Sites in YLS	Reconstruction of Tong Yan San Tsuen Interchange		\checkmark
DP6	EP-551/2018/A	Construction of Partly Depressed Road / Underpass Located at Tin Shui Wai West Interchange and F ull Enclosures at Tong Yan San T suen Interchange	Reconstruction of Tong Yan San Tsuen Interchange		\checkmark
DP10	EP-553/2018/A	Yuen Long Nullah Revitalisation / Decking along Kung Um Road and Kiu Hing Road for Housing Sites in YLS	Nullah deckings at various locations		

NOTE: DP reference no is according to approved EIA report (AEIAR-215/2017) and EM&A Manual (AEIAR-215/2017)

1.4 IMPLEMENTATION OF EM&A PROGRAMME

- 1.4.1 Ford Business International Limited (hereinafter called "Ford") was awarded the CEDD Agreement Contract No. WD/07/2022 Yuen Long South First Phase Development Environmental Team (hereinafter called "the Service Contract") on 26 October 2022. The Contractor period is 78 months which covered the construction period and the first-year operation period for the Works Contracts 1, 2 and 3 under the YLS First Phase Development (hereinafter named as "the Project).
- 1.4.2 In accordance with relevant EPs condition 2.4, an updated EM&A Manual for YLS First Phase Development (Rev.10) (hereinafter named as "updated EM&A Manual") has been submitted to EPD to include the latest EM&A requirement in accordance with the information and recommendation described in the EIA Report and by taking into account any specific site conditions that may be changed before the construction of the Project. It outlines the monitoring and audit programme for the Project for the construction phase and provided systematic procedures for monitoring, auditing and minimizing environmental impacts ensure compliance with the EIA recommendations.
- 1.4.3 In accordance with the updated EM&A Manual, baseline monitoring for air quality, noise and water quality monitoring was conducted by the ET of YLS First Phase Development at the agreed monitoring locations from 8 March 2023 to 4 June 2023. The Baseline Monitoring Report (Report ref.: TCS01267/22/600/R0044v4) which was verified by the Independent Environmental Checker (hereinafter referred as "the IEC"), was submitted to EPD on 7 July 2023.
- 1.4.4 According to the Project's programme, the various infrastructure items, which are classified as DPs under *Schedule 2 of the EIA Ordinance*, are tentatively scheduled to commence in December 2023. Nevertheless, in light of the commencement of construction works at non-EP area of the Project, the EM&A Programme in relevant sections was initiated on 13th July 2023 to fulfill the



contractual and EM&A Manual requirements.

1.4.5 This is the Monthly EM&A Report, presenting the monitoring results and inspection findings for the Project, for the reporting period from 1st to 29th February 2024 (hereinafter called 'the Reporting Period).

1.5 REPORT STRUCTURE

- 1.5.1 The Monthly EM&A Report is structured into the following sections:-
 - Section 1 Introduction
 - Section 2 Project Organization and Construction Progress
 - Section 3 Summary of Impact Monitoring Requirements under the Contract
 - Section 4 Air Quality Monitoring
 - Section 5 Construction Noise Monitoring
 - Section 6 Water Quality Monitoring
 - Section 7 Ecology Monitoring
 - *Section 8 Waste Management*
 - Section 9 Site Inspections
 - Section 10 Environmental Complaints and Non-Compliances
 - Section 11 Implementation Status of Mitigation Measures
 - Section 12 Conclusions and Recommendations



2 CONSTRUCTION PROGRESS AND PROJECT ORGANISATION

2.1 CONSTRUCTION CONTRACT PACKAGING

- 2.1.1 To facilitate the project management and implementation, the site formation and engineering infrastructure works to support First Phase Development will be delivered under CEDD three works contracts as follows: -
 - Contract 1 (CEDD Contract no.: YL/2021/03)
 - Contract 2 (CEDD Contract no.: YL/2021/04)
 - Contract 3 (CEDD Contract no.: YL/2022/01)

<u>CEDD Contract No. YL/2021/03</u> - Site Formation and Infrastructure Works for Yuen Long South First Phase Development - Contract 1

- 2.1.2 The contract was scheduled to commence in September 2022 and will take about 32 months to complete. The scope of works covered in this contract is listing in the following:
 - Site clearance and formation (including land decontamination works) for about five hectares of land, together with the provision of associated engineering infrastructure;
 - Construction of a single two-lane carriageway of about 130 metres long connecting to Lam Tai West Road;
 - Construction of a single two-lane carriageway of about 130 metres long connecting to Long Hon Road;
 - Construction of associated works including footpaths, slopes, retaining wall, landscaping works, water supply system, sewerage system and drainage system; and
 - Implementation of environmental mitigation measures for the works mentioned above.

<u>CEDD</u> Contract No. YL/2021/04 - Site Formation and Infrastructure Works for Yuen Long South First Phase Development - Contract 2

- 2.1.3 The contract was scheduled to commence in the 4th Quarter of 2022 and will take about 64 months to complete. The scope of works covered in this contract is listing in the following:
 - Site clearance and formation (including land decontamination works);
 - Nullah deckings at various locations;
 - Construction of proposed Road D1, Road D2, Road L1A, Road L1B and slip road at the existing Shap Pat Heung Interchange;
 - Improvement to sections of existing Kung Um Road, Kiu Hing Road, Wong Nai Tun Tsuen Road, Lam Tai East Road, Tai Kei Leng Road, Tai Tong Road, Lam Hi Road, Lam Yu Road, Shap Pat Heung Road and Sham Chung Road;
 - Construction of associated works including water mains, drainage works and sewerage systems, cycle tracks, footpaths, common utility tunnel, box culverts, junction improvement works, slope works, retaining walls, landscaping works, electrical and mechanical works and other ancillary works; and
 - Implementation of environmental mitigation measures (including noise semi-enclosures, noise barriers and low-noise road surfacing) and environmental monitoring works for the works mentioned above.

<u>CEDD Contract No. YL/2022/01 - Site Formation and Infrastructure Works for Yuen Long South</u> <u>First Phase Development - Contract 3</u>

- 2.1.4 The contract was scheduled to commence in 4th Quarter of 2022 and will take about 64 months to complete. The scope of works covered in this contract is listing in the following:
 - Site clearance and formation (including land decontamination works);
 - Reconstruction of Tong Yan San Tsuen Interchange;
 - Improvement to sections of existing Shan Ha Road, Long Hon Road and Tong Tai Road, and other road works;



- Construction of associated works including water mains, drainage and sewerage works, subways, cycle tracks, footpaths, box culverts, nullah deckings, junction improvement works, slope works, retaining walls, landscaping works, electrical and mechanical works and other ancillary works; and
- Implementation of environmental mitigation measures (including noise enclosures, noise barriers and low-noise road surfacing) and environmental monitoring works for the works mentioned above.

2.2 **PROJECT ORGANISATION**

2.2.1 The project organization and the key personal contact is shown in *Appendix C*. The responsibilities of respective parties are:

Civil Engineering and Development Department

2.2.2 CEDD is the Project Proponent and the Permit Holder of the EP of the Project and assume overall responsibility for the project. An Independent Environmental Checker (IEC) shall be employed by CEDD to audit the results of the EM&A works carried out by the ET.

Environmental Protection Department (EPD)

2.2.3 EPD is the statutory enforcement body for environmental protection matters in Hong Kong.

<u>Project Manager</u>

- 2.2.4 AECOM is the Engineer's Representative (ER) responsible for overseeing the construction works and for ensuring that the works undertaken by the Contractor are in accordance with the specification and contractual requirements. The duties and responsibilities of the Consultants with respect to the EM&A may include:
 - Supervise the Contractor's activities and ensure that the requirements in the EM&A Manual are fully complied with;
 - Inform the Contractor when action is required to reduce impacts in accordance with the Even and Action Plans;
 - Assist the Project Proponent in employing an IEC to audit the results of the EM&A works carried out by the ET;
 - Participate in joint site inspection undertaken by the ET and/or IEC;
 - Oversee the implementation of the agreed Event / Action Plan in the event of any exceedance; and
 - Adhere to the procedures for carrying out complaint investigations.

The Contractor

- 2.2.5 Tung Lee Engineering Company is Contractor of the Contract 1; CREC Joint Venture is Contractor of the Contract 2; and China Road and Bridge Corporation Company is Contractor of the Contract 3. The duties and responsibilities of the Contractor is:
 - Report to the Consultants;
 - Implement the EIA recommendations and requirements;
 - Provide assistance to ET in carrying out monitoring and auditing;
 - Submit proposals on mitigation measures in case of exceedances of Action and Limit levels in accordance with the Event and Action Plans;
 - Implement measures to reduce impact where Action and Limit levels are exceeded; and
 - Adhere to the agreed procedures for carrying out compliant investigation.

Environmental Team (ET)

2.2.6 *Ford Business International Limited* was appointed by CEDD as the ET to undertake the EM&A programme with the associated duties in May 2019. The ET is managed by the ET Leader who has at least 7 years' experience in EM&A and has relevant professional qualifications. Suitably qualified staff should be included in the ET, and resources for the implementation of the EM&A programme should be allocated in time under the Contract, to enable fulfillment of the Project's EM&A



requirements as specified in the EM&A Manual during construction of the Project. The duties of ET shall include:

- Set up all the required environmental monitoring stations;
- Monitor various environmental parameters as required in the EM&A Manual;
- Analyse the environmental monitoring and audit data and review the success of EM&A programme to confirm the adequacy of mitigation measures implemented and the validity of the EIA predictions and to identify any adverse environmental impacts arising;
- Carry out site inspection to investigate and audit the Contractors' site practice, equipment and work methodologies with respect to pollution control and environmental mitigation, and take proactive actions to preempt problems;
- Liaison with IEC on all environmental performance matters, and timely submission of all relevant EM&A proforma for IEC's approval;
- Prepare reports on the environmental monitoring data and site environmental conditions;
- Report on the environmental monitoring and audit results to the IEC, Contractor, the Consultants, Project Proponent and EPD;
- Recommend suitable mitigation measures to the Contractor in the case of exceedance of Action and Limit levels in accordance with the Event and Action Plans;
- Give advice to the Contractor on environmental improvement, awareness, enhancement matters, etc. on site;
- Undertake regular on-site audits / inspections and report to the Contractor, the Consultants and IEC of any potential non-compliance;
- Follow up and close out non-compliance actions; and
- Adhere to the procedures for carrying out environmental complaint investigation.

Independent Environmental Checker (IEC)

- 2.2.7 *Telemax Environmental and Energy Management Limited* is employed by the Permit Holder (i.e. CEDD). The IEC has over 7 years' experience in EM&A and environmental management. The duty of IEC should be:
 - Review in an independent, objective and professional manner the EM&A works performed by the ET (at not less than monthly intervals);
 - Audit the monitoring activities and results (at not less than monthly intervals);
 - Validate and confirm the accuracy of monitoring results, monitoring equipment, monitoring locations, monitoring procedures and location of sensitive receivers;
 - Report the audit results to the Consultants, the Project Proponent and EPD in parallel;
 - Review the EM&A reports submitted by the ET;
 - Check and review the proposed mitigation measures submitted by the Contractor in accordance with the Event and Action Plans;
 - Check and review the effectiveness of the mitigation measures that have been recommended in the EIA and the EM&A Manual, and ensure they are properly implemented in a timely manner, when necessary;
 - Report the findings of site inspections and other environmental performance reviews to Project Manager, Project Proponent and EPD.
 - Coordinate the monitoring and auditing works for all the on-going contracts in the area in order to identify possible sources / causes of exceedances and recommend suitable remedial actions where appropriate;
 - Coordinate the assessment and response to complaints / enquires from locals, green groups, district councils or the public at large;
 - On as-needed basis, verify and certify the environmental acceptability of the Contractor's construction methodology (both temporary and permanent works), relevant design plans and submissions under the EP; and
 - Verify investigation results of environmental complaint cases and the effectiveness of corrective measures.

2.3 CONSTRUCTION PROGRESS

2.3.1 According to the Project's programme, the various infrastructure items under Contract 2 and Contract 3, which are classified as DPs under Schedule 2 of the EIA Ordinance, are scheduled to commence in December 2023. The construction activities carried out in the Reporting Period are summarized



Table 2-1 and the 3-month rolling construction programme for Contract 1, Contract 2 and Contract 3 are shown in **Appendix D**.

Table 2-1	Summary of Construction A	ctivities in the Reporting	g Period
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Contract No.	Construction Activities undertaken in	Construction Activities undertaken in the Reporting Period			
	Non-designated work	Designated work			
YL/2021/03 (Contract 1)	 Demolition works Ground Investigation Site Hoarding Site Clearance Site Formation Construction of drainage system Piling work 	N/A			
YL/2021/04 (Contract 2)	Portion 6B: • Site clearance Portion 11: • Trail TAM Grout Portion 11A: • Demolition of existing diversion wall • Excavation works of ELS • Backfilling works of ELS For 1A: • Soil excavation • ELS and Construction for CUT	 Along Nullah: (EP: EP-553/2018/A) Pre-drill Road Set back works (including site clearance) Temporary decking installation Prebored Socket H-pile Installation Portion 5B: (EP: EP-549/2018) Site clearance 			
YL/2022/01 (Contract 3)	 Site Clearance GI Works Tree Felling Demolition Decontamination Construction of RW12, RW30 and RW35 Sheet Pile Installation for Box Culvert BC01 Pre-bored H pile at Fui Sha Wai South Road and MSB Site 	EP-548/2018/A • Nil EP-549/2018 • Nil EP-550/2018/A • Nil EP-551/2018/A • Nil			

2.4 SUMMARY OF ENVIRONMENTAL LICENSES AND PERMITS

2.4.1 To implement the project works, summary of the relevant permits, licenses, and/or notifications on environmental protection for Contract 1 and Contract 2 are presented in *Table 2-2 to Table 2-4*.

 Table 2-2
 Status of Environmental Licenses and Permits of Contract 1

Itom	Description	License/Permit Status		
Item	Description	Ref. no.	Effective Date	Expiry Date
1	Air pollution Control	Notified EPD on	N/A	N/A
	(Construction Dust)	31/08/2022		
	Regulation			
2	Waste Disposal	Account No. 7045085	01/09/2022	Valid and till
	Regulation - Billing			the Contract
	Account for Disposal of			Works ends
	Construction Waste			
3	Chemical Waste	WPN 5213-518-T1247-01	23/09/2022	Valid and till
	Producer Registration	(Portion 4, 4A and 4B)		the Contract
		WPN 5213-518-T4069-01	23/09/2022	Works ends

T4 area	Description	License	/Permit Status	
Item	Description	Ref. no.	Effective Date	Expiry Date
		(Portion 1A, 1B and 2A)		
		WPN 5213-518-T1246-01	23/09/2022	
		(portion3A, 3B and 3C)		
4	Water Pollution Control	WTP00043472-2023	12/06/2023	30/06/2028
	Ordinance - Discharge	(Portion 1A, 1B and 2A)		
	License	WTP00043980-2023	01/06/2023	30/06/2028
		(Portion 4, 4A and 4B)		
		WT10001331-2023	30/10/2023	31/10/2028
		(Portion 3A, 3B, 3C)		
		Case ID 494642	Application in progress	
5	Noise Control Ordinance	GW-RN1276-23	03/12/2023	02/06/2024
	- Construction Noise	GW-RN1278-23	03/12/2023	02/06/2024
	Permit			

Table 2-3Status of Environmental Licenses and Permits of Contract 2

Itom	Description	License/Per	mit Status	
Item	Description	Ref. no.	Effective Date	Expiry Date
1	Air pollution	Notified EPD on 04/01/2023	N/A	N/A
	Control			
	(Construction Dust)			
	Regulation			
2	Waste Disposal	Account No. 7046574	13/02/2023	Valid and till
	Regulation - Billing			the Contract
	Account for			Works ends
	Construction Waste			
3	Chemical Waste	Waste Producers Number: No	27/01/2023	Valid and till
Ū	Producer	WPN 5213-518-C4771-01	2110112023	the Contract
	Registration			Works ends
4	Water Pollution	WT00044244-2023 (Portion 9A)	16/8/2023	31/8/2028
	Control Ordinance -	WT00044253-2023 (Portion 11)	21/8/2023	31/8/2028
	Discharge License	WT10001774-2023 (Lam Tai	30/11/2023	30/11/2028
		East Road: Portion 3,10,11,18,19)		
		WT10001773-2023 (Yuen Long	08/01/2024	31/01/2029
		Nullah (Portion 1A, 4, 6C, 6, 6B,		
		6A)		
		WT10001736-2023 (Portion 14)	08/01/2024	31/01/2029
5	Noise Control	GW-RN1173-23 (Portion 9A)	27/10/2023	29/3/2024
	Ordinance –	GW-RN1249-23 (Portion 11)	19/11/2023	18/02/2024
	Construction Noise	GW-RN1281-23 (Portion 1A)	03/12/2023	31/05/2024
	Permit	GW-RW1310-23 (Portion 11A)	03/12/2023	02/03/2024
		GW-RN1379-23 (Portion 10)	27/12/2023	26/02/2024
		GW-RN0197-24 (BC01)	16/02/2024	22/04/2024

Table 2-4	Status of Environmental Licenses and Permits of Contract 3

Itom	Description -	License/Permit Status			
Item		Ref. no.	Effective Date	Expiry Date	



T4 area	Description	License/Permit Status			
Item	Description	Ref. no.	Effective Date	Expiry Date	
1	Air pollution Control	Ref. no. 488406	13 Jan 2023	N/A	
	(Construction Dust)				
	Regulation				
2	Waste Disposal Regulation	Account No. 7046323	18/01/2023	Valid and till	
	- Billing Account for			the Contract	
	Disposal of Construction			Works ends	
	Waste				
3	Chemical Waste Producer	Waste Producers Number:	22/03/2023	Valid and till	
	Registration	No. WPN		the Contract	
		5213-529-C4801-01		Works ends	
		Waste Producers Number:	26/02/2024	Valid and till	
		No. WPN		the Contract	
		5213-519-C4932-01		Works ends	
4	Water Pollution Control	WT10001097-2023	20/10/2023	20/10/2028	
	License	WT10001099-2023	13/11/2023	30/11/2028	
		WT10001098-2023	23/02/2024	28/02/2029	
5	Noise Control Ordinance – Construction Noise Permit	GW-RN1162-23	03/11/2023	31/12/2023	



3 AIR QUALITY MONITORING

3.1 MONITORING REQUIREMENTS

- 3.1.1 In accordance with the updated EM&A Manual, the ET shall carry out impact monitoring during the construction period. For regular impact monitoring of 1-hour TSP, the sampling frequency of at least 3 times in every 6 days should be undertaken. Before commencing impact monitoring, the ET shall inform the IEC of the impact monitoring programme such that the IEC can conduct on-site audit to ensure accuracy of the monitoring results.
- 3.1.2 In case of non-compliance with the air quality criteria, more frequent monitoring, as specified in the Action Plan in the following section, shall be conducted within the specified timeframe after the result is obtained. This additional monitoring shall be continued until the excessive dust emission or the deterioration in air quality is rectified, and agreed with the ER and the IEC.

3.2 MONITORING LOCATIONS

3.2.1 The phasing of the Project has been addressed in the approved EIA report, according to the updated EM&A Manual, DM-1 and DM2 are the monitoring stations for First Phase of YLS Development. The locations of construction dust monitoring stations under YLS First Phase Development are summarized in *Table 3-1* and illustrated in *Appendix E*.

Table 3-1	Construction	Dust Monitoring	Locations
1 abit 5-1		Dust Monitoring	Locations

ID Monitoring Locations		Description of Location				
Existing Air	Existing Air Sensitive Receivers					
DM-1	Shan Ha Tsuen House No. 613F	Shan Ha Tsuen House No. 613F				
DM-2	Village House along Kung Um Road	No. 118G Kung Um Road - Golden Villa				

3.3 MONITORING EQUIPMENT

- 3.3.1 Portable direct reading dust meters brand named "Sibata LD-3B Laser Dust monitor Particle Mass Profiler & Counter" were used to 1-hour TSP measurement. The portable direct reading dust meters provided a real time 1-hour TSP measurement based on 90° light scattering.
- 3.3.2 The portable direct reading dust meters were used within the valid period following manufacturer's Operation and Service Manual. It was calibrated annually and determined periodically by the calibrated High-Volume Sampler to check the validity and accuracy of the results measured by direct reading method. The proposed use of portable direct reading dust meters was submitted to the IEC and obtained agreement and stated in Section 4.3 of the Updated EM&A Manual.
- 3.3.3 The equipment used for impact air quality monitoring is listed in *Table 3-2*. The copies of calibration certificates for air quality monitoring equipment are shown in *Appendix F1*.

Table 3-2Air Quality Monitoring Equipment

Equipment	Model	Serial No.			
1-hour TSP					
	Sibata LD-3 Laser Dust monitor	3Y6502			
Portable Dust Meter	Particle Mass Profiler & Counter	456658			

Wind Data Monitoring Equipment

3.3.4 In consideration of the safety concerns of setting up wind sensor at 10m above ground, the ETL had proposed alternative method to obtain representative wind data in the updated EM&A Manual. Meteorological information at Wetland Park Station collected from the Hong Kong Observatory were used for the Project. It is located nearby the Project site and the meteorological data is considered representative of the Project area. This station can also provide other meteorological information include air temperature, relative humidity, wind direction, wind speed and mean sea level pressure. In additional, adoption of meteorological information from Hong Kong Observatory is a common alternative method for a lot of EM&A projects in Hong Kong. The weather data including wind speed and wing direction in the Reporting Month are summarized in *Appendix G*.



3.4 MONITORING PROCEDURES

- 3.4.1 The portable direct reading dust meters brand named "Sibata LD-3 Laser Dust monitor Particle Mass Profiler & Counter" was used for impact monitoring. It is a portable, battery-operated laser photometer and provides a real time 1-hour TSP measurement based on 90⁰ light scattering.
- 3.4.2 The 1-hour TSP meter used is within the valid period, calibrated by the manufacturer prior to purchasing. Zero response of the instrument was checked before and after each monitoring event. Operation of the 1-hour TSP meter was follow manufacturer's Operation and Service Manual.

3.5 ACTION/LIMIT LEVELS FOR AIR QUALITY

3.5.1 The baseline results form the basis for determining the environmental acceptance criteria for the impact monitoring. Following the guidelines for establishing the Action and Limit Levels for air quality monitoring, the Action and Limit Levels are presented in *Table 3-3*. Should project-related non-compliance of the environmental quality criteria occur, remedial actions will be triggered according to the Event and Action Plan which is presented in *Appendix H*.

Table 3-3Action and Limit Levels for Air Quality Monitoring

Monitoring Station	Action Level (µg /m ³)	Limit Level (µg /m ³)
DM-1	268	500
DM-2	268	500

3.6 AIR QUALITY MONITORING RESULTS

- 3.6.1 In light of the commencement of non-designated works and preparation of designated work of the Project, the EM&A Programme in relevant sections was initiated on 13th July 2023 to fulfill the contractual and EM&A Manual requirements. The monitoring schedule is presented in *Appendix I* and the monitoring results are summarized in the following sub-sections.
- 3.6.2 In the Reporting Period, 1-hour TSP monitoring were carried out at DM-1 and DM-2 and the monitoring results are summarised in *Tables 3-4*. The detailed 1-hour TSP monitoring results are provided in *Appendix J* and graphical plots of monitoring results are shown in *Appendix K*.

1-hour TSP (µg/m³)						
Station ID	Monitoring Location	Average (Range)	No. of Event	Action Level	Limit Level	
DM-1	Shan Ha Tsuen House No. 613F	82 (37 – 153)	12	260	500	
DM-2	Village House along Kung Um Road	39 (77 – 118)	12	260	500	

Table 3-4Summary of 1-hour TSP Monitoring Results

3.6.3 In the Reporting Period, all the 1-hour TSP monitoring results were below the Action/Limit Levels and no corrective action was therefore required.



4 CONSTRUCTION NOISE MONITORING

4.1 MONITORING REQUIREMENTS

- 4.1.1 Construction noise monitoring should be carried out at the designated monitoring station when there are Project-related construction activities being undertaken within a 300m from the monitoring stations. The monitoring frequency should depend on the scale of the construction activities. An initial guide on the monitoring is to obtain one set of 30-minutes measurement at each station between 0700 and 1900 hours on normal weekdays at a frequency of once a week when construction activities are underway.
- 4.1.2 During normal construction working hour (0700-1900 Monday to Saturday), monitoring of Leq, (30min) noise levels (as six consecutive Leq, (5min) readings) shall be carried out at the agreed monitoring locations once every week. If construction works are extended to include works during the hours of 1900 0700, applicable permits under NCO shall be obtained by the Contractor and strictly followed. A schedule on the compliance monitoring shall be submitted to the ER and IEC for approval before the monitoring starts.
- 4.1.3 In case of non-compliance with the construction noise criteria, more frequent monitoring, as specified in the Event and Action Plan in the following section, shall be carried out. This additional monitoring shall be continued until the recorded noise levels are rectified or proved to be irrelevant to the construction activities.

4.2 MONITORING LOCATIONS

4.2.1 The most representative and affected Noise Sensitive Receivers (NSRs) were selected as monitoring stations. Phasing of the Project has been addressed in the approved EIA report, according to the updated EM&A Manual, CM1a, CM2a, CM3, CM4, CM8a and CM9a are monitoring stations for the First Phase of YLS Development. For planned NSRs CM11, CM12, CM13, CM14 and CM15, they are future developments and not yet constructed and construction noise monitoring shall perform after these NSRs being occupied. The locations of construction noise monitoring stations under YLS First Phase Development are summarized in *Table 4-1* and illustrated in *Appendix E*.

Monitoring Station ID	Monitoring Location	Description of location	Measurement Point
Existing Noise Sensitive Receivers			
CM1a	Village house in Shan Ha Tsuen	Squatter house near Shan Ha Tsuen Village house no. 354	Façade
CM2a	Village house in Tin Lung Yuen	Village house No. 126E in Tin Lung Yuen	Free field
CM3	Village house in Lung Tin Tsuen	Village house at 66 Kiu Hing Road	Façade
CM4	Village house in Tin Liu Tsuen	Village house in Tin Liu Tsuen - Kam Fong Yuen	Façade
CM8a	Village House in Eldorado	Village House in Sha Tseng Tsuen (lot no. DD1211462A)	Free field
СМ9а	Village house in Pak Sha Tsuen	Village house No. 12 of Pak Sha Tsuen	Free field
Planned Nois	se Sensitive Receivers		
CM11	Public housing	No measurement before occupation of	No
CM12	Public housing	planned receivers (by other contract)	measurement
CM13	Village rehousing		was
CM14	Public housing		conducted
CM15	Planned primary school (opposite to Pak Sha Tsuen)		

Table 4-1	Construction	Noise	Monitoring	Stations
1 abie 4-1	Construction	noise	wionitoring	Stations

4.3 MONITORING EQUIPMENT

4.3.1 As referred to in the Technical Memorandum (TM) issued under the NCO, sound level meters in compliance with the International Electrotechnical Commission Publications 651: 1979 (Type 1) and



804: 1985 (Type 1) specifications were used for carrying out the noise monitoring. Sound level meter shall be checked by an acoustic calibrator. Wind speed shall be checked with a portable wind speed meter which is capable of measuring the wind speeds in m/s.

4.3.2 Noise monitoring equipment used for impact monitoring is listed in *Table 4-2*. The copies of calibration certificates of noise monitoring equipment were shown in *Appendix F2*.

Equipment	Model	Serial No.
Integrating Sound Level Meter	Rion NC-31	00410221
	Rion NL-52A	00620665
	Rion NL-52A	00620666
Calibrator	Rion NC-73	10655561
	Rion NC-75	34680623

Table 4-2Noise Monitoring Equipment

4.4 MONITORING PROCEDURES

- 4.4.1 Immediately prior to and following each noise measurement, the accuracy of the sound level meter was 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 level from before and after the noise measurement agrees to within 1.0 dB.
- 4.4.2 During the monitoring, the microphone of the sound level meter was normally set at a height of about 1.2m subject to site condition and oriented pointed to the site, with the microphone facing perpendicular to the line of sight. Where there a building façade, monitoring was conducted 1 m from the exterior of the building façade. For free field measurement, the microphone was positioned away from any reflective surface, and a correction of +3 dB(A) has been made for the free field measurements.
- 4.4.3 Noise measurements were taken in terms of the A-weighted equivalent sound pressure level (L_{eq}) measured in decibels dB(A). All noise measurements were performed with the meter set to FAST response and on the A-weighted equivalent continuous sound pressure level (L_{eq}). $L_{eq(30min)}$ in six consecutive $L_{eq(5min)}$ measurements were used as the monitoring parameter for the time period between 0700-1900 hours on normal weekdays. As supplementary information for data auditing, statistical results such as A-weighted levels L_{10} and L_{90} shall also be obtained for reference.
- 4.4.4 After the monitoring, all the monitoring data stored in the sound level meter system were downloaded through the computer software, and all these data were checked and reviewed on computer.

4.5 ACTION AND LIMIT LEVELS FOR CONSTRUCTION NOISE

4.5.1 Following the guidelines for establishing the Action and Limit Levels for construction noise monitoring, the Action and Limit Levels are presented in *Table 4-3*. Should project-related non-compliance of the environmental quality criteria occur, remedial actions will be triggered according to the Event and Action Plan which is presented in *Appendix H*.

Monitoring Station ID	Time Period ⁽¹⁾	Action Level	Limit Level
CM1a, CM2a, CM3,	0700 – 1900 hours on	When one documented	$75 \text{ dB}(\text{A})^{(2)}$
CM4, CM8a and	normal weekdays	complaint is received at	
CM9a, CM11, CM12,		anytime during the	
CM13, CM14 &		construction period	
CM15			

 Table 4-3
 Action and Limit Levels for Construction Noise

Notes:

- (1) If works are to be carried out during restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority have to be followed.
- (2) 70 dB(A) and 65 dB(A) for schools during normal teaching periods and school examination periods, respectively.



4.6 NOISE MONITORING RESULTS

- 4.6.1 In light of the commencement of non-designated works under the Project, the EM&A Programme in relevant sections was initiated on 13th July 2023 to fulfill the contractual and EM&A Manual requirements. Construction noise monitoring was carried out at the designated monitoring station when there are project-related construction activities being undertaken within a 300m from the monitoring stations.
- 4.6.2 In the Reporting Period, 4 sessions of noise measurements were carried out at designated monitoring stations CM1a, CM2a, CM3, CM4 and CM8a, which are within a 300m of the project-related construction activities. The noise monitoring results are summarised in *Table 4-4*. The detailed noise monitoring data are presented in *Appendix J* and the relevant graphical plots are shown in *Appendix K*.

Construction Noise Level (Leq30min), dB(A)					
Station ID	Description of location	Range	No. of Event	Action Level	Limit Level
CM1a	Squatter house near Shan Ha Tsuen Village house no. 354	51 - 57	4	When one	75
CM2a (*)	Village house No. 126E in Tin Lung Yuen	62 – 67	4	documented complaint is	75
CM3	Village house at 66 Kiu Hing Road	61 - 70	4	received at anytime	75
CM4	Village house in Tin Liu Tsuen - Kam Fong Yuen	68 – 75	4	during the construction	75
CM8a (*)	Village House in Sha Tseng Tsuen (lot no. DD1211462A)	57 – 62	4	period	75

Table 4-4Summary of Construction Noise Monitoring Results

Remarks

- (*) Noise measurements was conducted at free field condition and façade correction (+3 dB(A) was added according to acoustical principles and EPD guidelines
- 4.6.3 As shown in *Table 4-4*, no construction noise measurement results triggered the Limit Level (75 dB(A)) in the Reporting Month. Moreover, no valid noise complaint (which triggered Action Level exceedance) was recorded in the Reporting Period.



5 WATER QUALITY MONITORING

5.1 MONITORING REQUIREMENTS

- 5.1.1 The impact monitoring shall be conducted during construction period at the monitoring stations for YLS First Phase Development. The purpose of impact monitoring is to ensure the implementation of the recommended mitigation measures, provide effective control of any malpractices, and provide continuous improvements to the environmental conditions. The interval between two sets of monitoring shall not be less than 36 hours. EPD shall also be notified immediately for any changes in schedule.
- 5.1.2 In general, where the difference in value between the first and second in-situ measurement of DO or turbidity parameters is more than 25% of the value of the first reading, the reading shall be discarded and further readings should be taken.
- 5.1.3 In case of project-related exceedances of Action and/or Limit Levels, the impact monitoring frequency shall be increased according to the requirement of Event and Action Plan in the following section.
- 5.1.4 The monitoring frequency and water quality parameters for impact monitoring is summarized in *Table 5-1*.

Item	Impact Monitoring
Monitoring Period	During construction period
Monitoring Frequency	3 Days in a Week
Monitoring Locations	All stations under YLS First Phase Development
Monitoring Parameters	Dissolved oxygen (DO), dissolved oxygen saturation (DO%),
	temperature, turbidity, salinity, pH and suspended solids (SS)
Intervals between 2 Sets of	Not less than 36 hours
Monitoring	

 Table 5-1
 Water Quality Monitoring Programme for Impact Monitoring

5.2 MONITORING LOCATIONS

5.2.1 According to the geographic locations of Contract 1, Contract 2 and Contract 3 under the First Phase YLS Development, the water quality monitoring locations with the purpose of monitoring are proposed in the updated EM&A Manual. The selection criterion for monitoring locations is based on the separation distance between work boundary of YLS First Phase Development and the river / stream. The water monitoring stations in respective with Contract 1, Contract 2 and Contract 3 are summarized in *Table 5-2, Table 5-3* and *Table 5-4*. Monitoring stations with work boundary of Contracts 1, 2 and 3 are illustrated in *Appendix E*.

Table 5-2LocationsofWaterQualityMonitoringStationsforImpactMonitoring for Contract 1

WCD	Monitoring	Description	Co-ordinates	
WON	Station ID	Description	Easting	Northing
S01	M2a	Upstream station of Contract 1	820133	832282
(Yuen Long Nullah)	M3	Impact monitoring of Contract 1	820688	833127

Table 5-3Locations of WaterQualityMonitoringStationsforImpactMonitoring for Contract 2

WCD	Monitoring	nitoring		Co-ordinates	
WSK	Station ID	Description	Easting	Northing	
	U2a	Upstream of Contract 2	820303	830757	
	U1(b)	Upstream of Contract 2	820120	831191	
S01	U3	Upstream of Contract 2	820872	832455	
(Yuen Long Nullah)	U4a	Upstream of Contract 2	821366	832458	
	Mla	Gradient monitoring of Contract 2	820476	832295	
	M2a	Gradient monitoring of Contract 2	820133	832282	

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WCD	Monitoring	Description	Co-ordinates	
WSK	Station ID Description	Description	Easting	Northing
	M3	Impact monitoring of Contract 2	820688	833127
	M4	Impact monitoring of Contract 2	820910	833138
S05 (EIS)	EIS-1a	Impact monitoring of Contract 2	820341	830555

Table 5-4Locations of WaterQualityMonitoringStationsforImpactMonitoring for Contract 3

WCD	Monitoring	onitoring Co-ordinates		dinates
WSK	Station ID	Description	Easting	Northing
S02 (near TYST)	M5a	Upstream monitoring of Contract 3	819327	832535
S03 (near Windsor Garden)	M6a	Upstream monitoring of Contract 3	819335	832170
S02/S03 (near TYST & Windsor Garden)	D2a	Impact monitoring of Contract 3	819867	833939
S17	M7a	Upstream monitoring of Contract 3	818761	832798
(Along Kiu Hung Road)	D5a	Impact monitoring of Contract 3	818484	833362

- 5.2.2 If the water level of a monitoring station is too shallow when sampling, sediment would be disturbed which affecting the accuracy of water quality monitoring. In order to avoid disturbing sediment, depth limits should be set up for the water sampling for the ease of reference. When the measured water depth of the monitoring station (both control and impact stations) is lower than 150mm, water monitoring would not be to perform at that monitoring location. Instead, the monitoring location will be moved to a temporary alternative location monitoring location based on the criteria below:-
 - (a) the alternative location should be either upstream or downstream of the original location and at the same the river/drain channel
 - (b) the alternative location should be within 15m far from the original location
 - (c) if no suitable alternative location could be found within 15m far from the original location, the sampling at that location will be cancelled since sampling at too far from the designated location could not make a representative sample.

5.3 MONITORING EQUIPMENT

Positioning of Monitoring Locations

5.3.1 A digital Global Positioning System (GPS) was used during water monitoring to ensure the monitoring vessel is at the correct location when taking measurement and samples.

Dissolved Oxygen, Dissolved Oxygen Saturation, Temperature, Turbidity, Salinity and pH value

5.3.2 The *YSI Professional DSS Multiparameter Sampling Instrument* was used for water in-situ measures, which automates the measurements and data logging of temperature, dissolved oxygen, dissolved oxygen saturation, turbidity, pH and salinity simultaneously.

Water Depth Detector

5.3.3 Measures tape was used for water depths determination at each designated monitoring station throughout the monitoring programme.

Water Sampling Equipment

5.3.4 Water sample collection was directly from water surface use sampling plastic bottle or sampling bucket to avoid inclusion of bottom sediment or humus. Teflon/stainless steel bailer maybe used for water sampling. The use of water sampling equipment depends on the depths of sampling locations.



Sample Containers and Storage

5.3.5 Water samples for SS should be stored in high density polythene bottles with no preservative added, packed in ice (cooled to 4°C without being frozen) and shipment to the testing laboratory. The samples shall be delivered to the laboratory within 24 hours of collection and be analysed as soon as possible after collection.

Calibration

5.3.6 The YSI Professional DSS Multiparameter Sampling Instrument was certified by a laboratory accredited under HOKLAS or any other international accreditation scheme, and subsequently re-calibrated at quarterly basis throughout all stages of the water quality monitoring. Responses of sensors and electrodes should be checked with certified standard solutions before each use. Wet bulb calibration for a DO meter shall be carried out before measurement at each monitoring station.

Back-up Equipment

- 5.3.7 Backup monitoring equipment shall also be made available so that monitoring can proceed uninterrupted even when some equipment is under maintenance, calibration, malfunction, etc.
- 5.3.8 Water quality monitoring equipment used for the impact monitoring are listed in *Table 5-5*. All in-situ measurement equipment were calibrated by HOKLAS accredited laboratory of three-month interval. Copies of calibration certificates for water quality monitoring equipment are shown in *Appendix F3*.

Equipment	Model	Serial No.
Water Depth Detector	Measure tape	N/A
Thermometer & DO meter		[17B102764/17B100758]/ [EOW019]
pH meter	YSI Professional DSS Multiparameter	
Turbidimeter	Sampling Instrument	
Salinometer		
Sample Container	High density polythene bottles (provided by laboratory)	N/A
Storage Container	'Willow' 33-litter plastic cool box with Ice pad	N/A

Table 5-5Water Quality Monitoring Equipment

5.4 MONITORING PROCEDURES

5.4.1 Water quality monitoring was conducted at all designated monitoring locations. In-situ of replicate measurements was undertaken during baseline monitoring; where the difference in value between the first and second in-situ measurement of DO or turbidity parameters is more than 25% of the value of the first reading, the reading was discarded then further readings to be take. Moreover, duplicate sample collection was also conducted from each monitoring location. The sampling and in-situ measurement process are below:

Sampling Procedure

- 5.4.2 A Digital Global Positioning System (GPS) was used to identify the designated monitoring stations. Prior to water sampling, measure tape was used for the determination of water depth at each station.
- 5.4.3 Where water depth is allowed, sampling should be conducted at three water depths which are 1m below water surface, mid-depth, and 1m above the river bed. If the sampling water depth is less than 6m, the mid-depth may be omitted. If the water depth is less than 3m, only the mid-depth may be omitted.
- 5.4.4 During the baseline water quality monitoring, the water depths of all stations were less than 3m, therefore, water samples were collected from 0.1m below water surface or water surface to prevent the river bed sediment for stirring.



- The sample container was rinsed with a portion of the water sample. The water sample then was 5.4.5 transferred to the high-density polythene bottles as provided by the laboratory, labeled with a unique sample number and sealed with a screw cap.
- 5.4.6 Before commencement of the sampling, general information such as the date and time of sampling and weather condition as well as the personnel responsible for the monitoring were be recorded on the monitoring field data sheet.
- 5.4.7 A 'Willow' 33-liter plastic cool box packed with ice was used to preserve the collected water samples prior to arrival at the laboratory for chemical determination. The water temperature of the cool box was maintained at a temperature as close to 4°C as possible without being frozen. Samples collected were delivered to the laboratory upon collection.

In-situ Measurement

5.4.8 YSI Professional DSS Multiparameter Sampling Instrument was used for water in-situ measures, which automates the measurements and data logging of water temperature, dissolved oxygen & dissolved oxygen saturation, pH unit and salinity. Before each round of monitoring, the instrument was checked in accordance with the manufactory manual instruction to sure it is valid.

5.5 **LABORATORY MEASUREMENT / ANALYSIS**

5.5.1 Two replicate samples from each independent sampling event are required for the SS analysis. Sufficient water samples shall be collected at the monitoring stations for carrying out the laboratory measurement and analysis. The SS analysis were carried out by a local HOKLAS-accredited laboratory - ALS Technichem (HK) Pty Ltd and the HOKLAS-accreditation certificate of the testing laboratory is shown in *Appendix E4*. The laboratory determination work shall start within 24 hours after collection of the water samples. The analysis for suspended solids is presented in *Table 5-6*.

Table 5-6	Laboratory A	Analysis
14010 0 0	Laboratory	11141 9 515

Parameters	Analytical Method	Reporting Limit
Suspended Solid (SS)	APHA 2540-D	0.5mg/L

Action/Limit Levels for Water Quality for YLS First Phase Development

5.5.2 Following the guidelines for establishing the Action and Limit Levels for water quality monitoring, the Action and Limit Levels for of Contract 1, Contract 2 and Contract 3 under YLS First Phase Development are presented in Table 5-7 to Table 5-9. Should project-related non-compliance of the environmental quality criteria occur, remedial actions will be triggered according to the Event and Action Plan which is presented in Appendix H.

Watan								
Sensitive	Impact Monitoring Location	DO (mg/L)		Turbidity (NTU)		Suspended Solids (mg/L)		Upstream / Control
(WSR)		Action Level	Limit Level	Action Level	Limit Level	Action Level	Limit Level	Station
501	[@] M2a	6.4	6.3	8.4	8.5	8.7	8.8	N/A
501	*M3	3.0	2.9	20.5	22.6	30.2	30.3	N/A
Remarks								

Table 5-7 Action and Limit Levels for Water Quality Monitoring for Contract 1

Gradient Monitoring Location (a)

Impact Monitoring Location

Table 5-8 Action and Limit Levels for Water Quality Monitoring for Contract 2

Water	Gradient /		Parameter						
Sensitive	Impact	$\mathbf{DO}(\mathbf{m}\mathbf{a}/\mathbf{I})$	Turbidity	Suspended	Control				
Receiver	Monitoring	DO (mg/L)	(NTU)	Solids (mg/L)	Station as				

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(WSR)	Location	Action Level	Limit Level	Action Level	Limit Level	Action Level	Limit Level	related WSR		
	@>.(1									
	[®] M1a	1.3	1.2	106.9	131.6	242.5	273.5	U16 & U2a		
501	[@] M2a	6.4	6.3	8.4	8.5	8.7	8.8	N/A		
501	*M3	3.0	2.9	20.5	22.6	30.2	30.3	U1b & U2a		
	*M4	6.1	6.0	30.9	35.9	18.6	20.1	U3 &U4a		
S05	*EIS-1a	5.4	5.4	18.9	19.2	25.8	31.9	N/A		
Remarks	Remarks									
Gradiant Monitoring Location										
W Gradient Monitoring Location										
* Impa	act Monitorin	g Location	n							

Table 5-9	Action and Limit Levels for Water Quality Monitoring for Contract 3

Water	Cuadiant /			Upstream /					
Sensitive	Impact	DO (mg/L)		Turb (N)	Turbidity (NTU)		ended (mg/L)	Control Station as	
(WSP)	Location	Action	Limit	Action	Limit	Action	Limit	related	
(WSK)	Location	Level	Level	Level	Level	Level	Level	WSR	
S02/S03	*D2a	6.7	6.7	21.7	22.0	96.1	152.9	M5a & M6a	
S17	[@] M7a	6.1	6.1	12.6	12.7	12.0	13.1	Nama	
517	*D5a	5.1	4.9	19.1	19.6	57.1	67.5	None	
Remarks									
@ Gradient Monitoring Location									
* Impa	act Monitoring	g Location	n						

5.6 WATER QUALITY MONITORING RESULTS

5.6.1 In the Reporting Period, a total of eleven (11) days water quality monitoring were conducted at various stations, including M1a, M2a, M3, M4, U3, U4a, M5a, M6a, D2a, M7a, D5a, U1b, U2a and EIS-1a. The key monitoring parameters including DO, Turbidity and SS are summarised in *Tables 5-10 to 5-12*. Summary of non-project related exceedances are shown in *Table 5-13*. Detailed water quality monitoring result are shown in *Appendix J* and the relevant graphical plot are shown in *K1*.

Table 5-10Water Quality Monitoring Results for Dissolved Oxygen

Monitoring Station	DO (mg/L) Average (range)	Action Level (mg/L)	Limited Level (mg/L)			
M1a	3.8 (2.0 – 7.5)	1.3	1.2			
M2a	6.7 (6.4 – 7.6)	6.4 6.3				
M3	4.5 (3.1 – 7.9)	3.0 2.9				
M4	6.5(6.1 - 8.3)	6.1	6.0			
U1b	4.6 (2.2 – 7.9)	No applicable for upstream and control station				
U2a	7.5 (6.4 – 8.3)	No applicable for upstream and control station				
U3	3.8 (2.7 – 7.0)	No applicable for upstream and control station				
U4a	3.8 (2.1 – 7.9)	No applicable for upstrea	am and control station			
EIS-1a	7.6 (6.0 – 8.3)	5.4	5.4			
M5a	6.0 (5.2 – 8.4)	No applicable for upstrea	am and control station			
M6a	8.3 (7.9 – 8.8)	No applicable for upstrea	am and control station			
D2a	7.8 (7.2 – 8.3)	6.7 6.7				
M7a	7.2(6.6 - 8.5)	6.1 6.1				
D5a	5.8 (5.2 – 7.2)	4.9	5.1			



Table 5-11	Water Quality Monitoring Re	sults for Turbidity					
Monitoring Station	Turbidity (NTU) Average (range)	Action Level (NTU)	Limit Level (NTU)				
M1a	14.6 (5.6 – 25.2)	106.9	131.6				
M2a	6.4 (3.7 – 8.7)	8.4	8.5				
M3	9.9 (3.2 - 20.0)	20.5	22.6				
M4	5.8 (3.3 - 8.0)	30.9	35.9				
U1b	33.1 (9.2 – 97.7)	No applicable for upstre	No applicable for upstream and control station				
U2a	3.3 (1.2 – 6.1)	No applicable for upstre	No applicable for upstream and control station				
U3	4.6 (2.4 – 12.9)	No applicable for upstre	am and control station				
U4a	7.6 (2.3 – 14.1)	No applicable for upstre	eam and control station				
EIS-1a	4.7 (1.6 - 12.2)	18.9	19.2				
M5a	73.6 (18.2 – 129.6)	No applicable for upstre	eam and control station				
M6a	2.7 (0.1 – 6.9)	No applicable for upstre	eam and control station				
D2a	53.8 (2.7 - 478.4)	21.7	22.0				
M7a	4.2 (1.3 – 11.1)	12.6	12.7				
D5a	6.3 (2.9 – 15.0)	19.1	19.6				

Table 5-12	Water Quality	Monitoring	Results for S	Suspended Solids
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Monitoring	SS (mg/L)	Action Level	Limited Level (mg/L)		
Station	Average (range)	(mg/L)			
M1a	23.8 (9.5 - 51.9)	242.5	273.5		
M2a	7.8 (5.9 – 9.6)	8.7	8.8		
M3	18.2 (11.6 – 25.9)	30.2	30.3		
M4	9.7 (5.4 - 14.0)	18.6	20.1		
U1b	48.3 (16.0 - 120.5)	No applicable for upstre	am and control station		
U2a	4.1 (2.6 – 6.9)	No applicable for upstream and control station			
U3	12.5 (6.1 – 29.3)	No applicable for upstream	am and control station		
U4a	20.4 (8.8 - 39.3)	No applicable for upstream	am and control station		
EIS-1a	9.6 (4.1 – 25.7)	25.8	31.9		
M5a	239.9 (64.7 - 537.5)	No applicable for upstre	am and control station		
M6a	5.6 (0.5 - 14.6)	No applicable for upstream	am and control station		
D2a	70.4 (7.6 – 611.0)	96.1	152.9		
M7a	8.0 (4.6 - 11.7)	12.0	13.1		
D5a	7.5 (4.4 – 11.3)	57.1	67.5		

5.6.2 In this Reporting Period, 4 Limit Level exceedance of water quality monitoring were recorded. The summary of water quality monitoring exceedance recorded in the Reporting Period are shown in *Table 5-13*. Investigation results of the exceedance are shown in *Table 5-14*.

Table 5-13Summary of Water Quality Monitoring Exceedance Recorded in the
Reporting Period

Location	Disso Oxy	Dissolved Turbidity Suspended Soli		led Solids	Non-p rela Excee	roject ited dance	Project Related Exceedance			
	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL
M1a	0	0	0	1	0	1	0	2	0	0
M2a	0	0	0	0	0	0	0	0	0	0
M3	0	0	0	1	0	1	0	2	0	0
M4	0	0	0	0	0	0	0	0	0	0
D2a	0	0	0	0	0	0	0	0	0	0



Location	Dissolved Oxygen		Turbidity		Suspended Solids		Non-project related Exceedance		Project Related Exceedance	
	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL
No of Exceedance	0	0	0	2	0	2	0	4	0	0

Table 5-14 Summary of Investigation Result for Water Quality Monitoring Exceedance

Date	Station	Parameter	Exceedance	Investigation	Action
19 Feb 2024	Mla	Turbidity and Suspended Solids	Limit Level	The Contractor of C3 advised that no piling works or pre-drilling works had been conducted along Shan Ha Road nullah. Welding works of H-pile, TTA and housekeeping of nullah were being conducted on that day along the nullah. Based on ET's site inspection on 22 Feb 2024, it is observed that no piling works or pre-drilling works was observed to be conducted along Shan Ha Road nullah, and there was no discharge made from the site of C3. It is considered that the exceedances were unlikely due the Project.	Since the exceedances were non-project related, increase monitoring frequency according to the requirement of Event and Action Plan is not required, and corrective action is not required.



6 ECOLOGY MONITORING

6.1 **REQUIREMENTS**

6.1.1 As required under Section 8.3 of the updated EM&A Manual, wherever applicable, the implementation of the mitigation measures applicable to the three Contracts of the First Phase Development of the Project shall be audited regularly during the construction phase, the establishment phase of the mitigation measures and/or the early (the first 12 months of) operation phase of the Project.

Monitoring of Transplantation of Flora Species of Conservation Importance

- 6.1.2 Prior to commencement of construction works, an updated baseline survey was conducted by a qualified botanist/ plant ecologist within the proposed works area(s) to identify and update the conditions of any flora species of conservation importance. A Baseline Vegetation Survey and Transplantation Proposal would been prepared to confirm the locations, quantities and conditions of any identified flora species of conservation importance within the works area(s), and proposed methodology and receptor site(s) to transplant any of these specimens that are to be affected by the construction works.
- 6.1.3 Based on the result of the Vegetation Survey, flora species of conservation importance was not recorded within the works area(s). There would be no transplantation of flora species of conservation importance, and relevant monitoring is not required for the Project.

Monitoring of Mitigation Measures on Affected Aquatic Fauna of Conservation Importance

- 6.1.4 A baseline survey shall be conducted in all affected watercourses by a qualified ecologist of relevant experience to confirm the presence, relative abundance, and distribution of any aquatic species of conservation importance prior to any commencement of works which would lead to watercourse loss. A translocation programme shall be designed and developed with relevant authorities to translocate any affected aquatic fauna species of conservation importance. Capture and translocation of species to suitable permanent receptor site(s) (e.g. the retained natural watercourses in PDA or the recreated watercourse) or a holding area shall be conducted by a suitably qualified ecologist before the commencement of any construction works.
- 6.1.5 In view of commencement of preparation work at Yuen Long Nullah, baseline survey for the presence of aquatic species of conservation importance was conducted at the affected sections of the Nullah by the qualified ecologist of ET on 24th November 2023. There were no aquatic species of conservation importance found and recorded. The relevant baseline report will be submitted separately. In the Reporting Period, only preparation work was conducted at Yuen Long Nullah and no works would lead to watercourse.
- 6.1.6 Another baseline survey would be conducted for commencement of works which would lead to watercourse loss for other section of works.

<u>Monitoring of Mitigation Measures to Minimize Disturbance Impacts to Tai Tong (Pak Sha Tsuen)</u> <u>Egretry</u>

6.1.7 Prior to commencement of construction activities, a baseline egretry survey was conducted during the breeding season to confirm the location of egretry, evidence of egretry occupation and number of breeding pairs. Based on the survey result, no egretry was found within 250m of the project boundary. Therefore, the relevant monitoring and flight-line surveys was not required in the Reporting Period.



7 LANDSCAPE AND VISUAL MONITORING

7.1 MONITORING REQUIREMENTS

7.1.1 The EIA has recommended EM&A for landscape and visual mitigation measures to be undertaken during the design, construction and operational stages of the project. The design, implementation and maintenance of landscape mitigation measures is a key aspect and should be checked to ensure that they are fully realised and that potential conflicts between the proposed landscape measures and any other project works and operational requirements are resolved at the earliest possible date and without compromise to the intention of the mitigation measures. In addition, implementation of the mitigation measures recommended by the EIA will be monitored through the site audit programme.

7.2 MITIGATION MEASURES

7.2.1 The Landscape and Visual Assessment of the EIA proposes a number of mitigation measures to ameliorate the landscape and visual impacts of the Project. These measures are listed in table below and implementation is summarised in the EMIS.

Mitigation Measure	Summary Description	Mitigate Landscape	Mitigate Visual	Related to Contract
Code		Impacts	Impacts	
Construction .	Phase			
CM1	Optimisation of Construction Areas and Providing Temporary Landscape on Temporary Construction	\checkmark	\checkmark	C1, C2, C3
CM2	Minimise Topographical Changes	\checkmark	\checkmark	C1, C2, C3
CM3	Tree Protection and Preservation	\checkmark		C1, C2, C3
CM4	Transplanting of Existing Trees	\checkmark		C1, C2, C3
CM5	Screen Hording		\checkmark	C1, C2, C3
CM6	Watercourses of higher ecological value / Channels Protection	\checkmark		C2, C3
CM7	Construction Light Control		\checkmark	C1, C2, C3
CM8	Woodland Conservation	\checkmark		Not related to YLS First Phase

 Table 7-1
 Proposed Mitigation Measures for Landscape and Visual Impacts

7.2.2 Mitigation measures to be implemented during construction should be adopted from the start of construction and be in place throughout the entire construction period. Tree transplantation, preservation of Potentially Registerable Old and Valuable Trees (POVTs), Rare and Protective Vegetation, and compensatory planting should be carried out as early as possible in the Project with transplantation carried out prior to construction starting in any particular area.

7.3 AUDIT REQUIREMENT

7.3.1 Site audits should be undertaken during the construction phase of the Project to check that the proposed landscape and visual mitigation measures are properly implemented and maintained as per their intended objectives. Site inspections should be undertaken by the ET at least once every two weeks during the construction period. In addition, as the Project contains various Schedule 2 DPs, site inspection program for these DPs shall make reference to the project details and works progress to schedule the inspection works. Particularly audits should be carried out during site clearance when proposed tree retain, tree felling, and transplantation may occur.

7.4 AUDIT RESULT

7.4.1 Bi-weekly inspection of landscape and visual impact and mitigation measures were conducted by ET during the weekly site inspection. It was observed that six individual trees under Contract 2 transplanted to the nursery site were in fair condition. For Contract 3, the transplanted trees in the nursery site were in fair health condition, however, general refuse was found stored in the nursery site on 29 February 2024. The Contractor had promptly removed the general refuse in the following day.



8 WASTE MANAGEMENT

8.1 GENERAL WASTE MANAGEMENT

8.1.1 Waste management was carried out in accordance with the Waste Management Plan for the Contract.

8.2 **RECORDS OF WASTE QUANTITIES**

- 8.2.1 All types of waste arising from the construction work are broadly classified into the following:
 - Insert construction & demolition (C&D) Material; and
 - C&D waste
- 8.2.2 The Contractors are advised to minimise the wastes generated through recycling or reusing. All mitigation measures stipulated in the Updated EM&A Manual and waste management plans shall be fully implemented.
- 8.2.3 The quantities of waste for disposal under Contract 1 and Contract 2 in this Reporting Period are summarized in *Tables 8-1* and *8-2* and they are made reference to the Waste Flow Table provide by the Contractors which shown in *Appendix L*.

Table 8-1Summary of Quantities of Inert C&D Materials

Type of Waste	Type of Waste Contract 1		Contract 2		Contract 3	
	Quantity (tonnes)	Disposal Location	Quantity (tonnes)	Disposal Location	Quantity (in '000m ³)	Disposal Location
Total generated C&D Materials (Inert)	0		0		0	
Reused in this Contract (Inert)	3000.00		0		0	
Reused in other Projects (Inert)	0		0		0	
Disposal as Public Fill (Inert)	1526.98	Tuen Mun Area 38	6250.55	Tuen Mun Area 38	0.408	Tuen Mun Area 38

Table 8-2Summary of Quantities of C&D Wastes

Type of Waste	Contract 1		Contract 2		Contract 3	
	Quantity (tonnes)	Disposal Location	Quantity (tonnes)	Disposal Location	Quantity (in '000kg / '000m ³)	Disposal Location
Recycled Metal	0		27.61	Licensed collector	0	
Recycled Paper / Cardboard Packing	0		0.29	Licensed collector	0.030	Licensed collector
Recycled Plastic	0		3.1	Licensed collector	0.004	Licensed collector
Chemical Wastes	0		0		0	
General Refuses	0		52.99	WENT	0.358	WENT



9 SITE INSPECTION

9.1 **REQUIREMENTS**

9.1.1 According to the updated EM&A Manual, the programme of environmental site inspection shall be formulation by ET Leader. Weekly environmental site inspections were carried out to confirm the environmental performance.

9.2 FINDINGS / DEFICIENCIES DURING THE REPORTING PERIOD

Contract 1

- 9.2.1 In the Reporting Period, joint site inspections to evaluate the site environmental performance for Contract 1 were carried out by the representatives of the RE, ET and the Contractor on 6th, 15th, 22nd and 28th February 2024. No non-compliance was noted.
- 9.2.2 The findings / deficiencies observed for *Contract 1* during the weekly site inspection are listed in *Table 9-1*.

Date	Findings / Deficiencies	Follow-Up Status
6 th Feb 2024	 The Contractor should remove or cover sandy stockpile properly to reduce dust impact. (Portion 1A). The Contractor should provide noise acoustic mat for breaker to reduce noise impact. (Portion 1A). The Contractor was reminded to pay special attention on dust generation. 	 The sandy stockpile was covered to reduce dust impact. The noise acoustic mat was provided for breaker to reduce noise impact.
15 th Feb 2024	• The Contractor was reminded to spray water at haul road to reduce dust impact.	• Reminder only.
22 nd Feb 2024	• The Contractor should remove or place chemical containers inside drip tray. (Portion 1A).	• The chemical containers were removed and relocated in designated area.
28 th Feb 2024	 The Contractor was reminded to remove or cover sandy stockpile properly to reduce dust impact. The Contractor was reminded to enhance house-keeping. 	Reminder only.Reminder only.

Table 9-1Site Inspection and Observations for Contract 1

Contract 2

- 9.2.3 In the Reporting Period, joint site inspections to evaluate the site environmental performance for Contract 1 were carried out by the representatives of the RE, ET and the Contractor on 7th, 14th, 23rd and 28th February 2024. No non-compliance was noted.
- 9.2.4 The findings / deficiencies observed for *Contract 2* during the weekly site inspection are listed in *Table 9-2*.

Table 9-2Site Inspection and Observations for Contract 2

Date	Findings / Deficiencies	Follow-Up Status
7 th Feb 2024	• The Contractor should provide mitigation measure to prevent muddy water leak into drainage system.	• Sand bag and geotextile has been applied to prevent muddy water leak into drainage system.
14 th Feb 2024	• The Contractor was reminded to remove stagnant water regularly.	• Reminder only.
23 rd Feb 2024	• The Contractor should provide sandy bags to surround the drainage system to	• The nullah has been blocked by sheet pile installation.

Date	Findings / Deficiencies	Follow-Up Status
	prevent rock and soil runoff. (Portion 10)	(Portion 11)
28 th Feb 2024	• The Contractor was reminded to clean construction waste regulalrly to enhance	Reminder only.
	house-keeping.	

9.2.5 General housekeeping such as site tidiness and cleanliness should be maintained for all works areas. Furthermore, the Contractor was reminded to implement the Waste Management Plan of the Contracts.

Contract 3

- 9.2.6 In the Reporting Period, joint site inspections to evaluate the site environmental performance for Contract 1 were carried out by the representatives of the RE, ET and the Contractor on 5th, 15th, 22nd and 29th February 2024. No non-compliance was noted.
- 9.2.7 The findings / deficiencies observed for *Contract 3* during the weekly site inspection are listed in *Table 9-3*.

Date	Findings / Deficiencies	Follow-Up Status		
5 th Feb 2024	• No environmental issue was observed during site inspection.	N/A		
15 th Feb 2024	• The Contractor was reminded to spray water at haul road to reduce dust impact.	• Reminder only.		
22 nd Feb 2024	• The Contractor should provide new NRMM label for excavator. (Portion 6A)	• New NRMM label was displayed on the excavator.		
29 th Feb 2024	 The Contractor was reminded to remove or cover sandy stockpile properly to reduce dust impact. The Contractor was reminded to enhance 	Reminder only.Reminder only.		
	house-keeping.	- Reminder only.		

Table 9-3Site Inspection and Observations for Contract 3

9.2.8 General housekeeping such as site tidiness and cleanliness should be maintained for all works areas. Furthermore, the Contractor was reminded to implement the Waste Management Plan of the Contracts.


10 ENVIRONMENTAL COMPLAINTS AND NON-COMPLIANCES

10.1 Environmental Complaints, Summons and Prosecutions

- 10.1.1 There was no environmental complaint, prosecution or notification of summons received in the Reporting Period.
- 10.1.2 The statistical summary table of the environmental complaints, summons and prosecutions are presented in *Tables 10-1*, *10-2* and *10-3*. Detailed complaint log for the Contract is presented in *Appendix M*.

Donouting Daviad	Contract No.	Environmental Complaint Statistics								
Reporting Period	Contract No	Frequency	Cumulative	Complaint Nature						
13 th July 2023 – 31 st January 2024	Contract 1	0	0	NA						
February 2024	Contract 1	0		NA						
$1^{st} - 31^{st}$ January 2024	Contract 2	0	0	NA						
February 2024	Contract 2	0	0	NA						
$1^{st} - 31^{st}$ January 2024	Contract 3	0	0	NA						
February 2024	Contract 3	0	0	NA						

Table 10-1 Statistical Summary of Environmental Complaints

Table 10-2 Statistical Summary of Environmental Summons

Donosting Dovied	Contract No.	Environmental Summons Statistics							
Reporting Feriod	Contract No	Frequency	Cumulative	Complaint Nature					
13 th July 2023 – 31 st January 2024	Contract 1	0	0	NA					
February 2024	Contract 1	0		NA					
1 st – 31 st January 2024	Contract 2	0	0	NA					
February 2024	Contract 2	0	0	NA					
1 st – 31 st January 2024	Contract 3	0	0	NA					
February 2024	Contract 3	0	0	NA					

Table 10-3 Statistical Summary of Environmental Prosecution

Donouting Douiod	Contract No.	Environmental Prosecution Statistics							
Reporting Feriod	Contract No	Frequency	Cumulative	Complaint Nature					
13 th July 2023 – 31 st January 2024	Contract 1	0	0	NA					
February 2024	Contract 1	0		NA					
1 st – 31 st January 2024	Contract 2	0	0	NA					
February 2024	Contract 2	0	0	NA					
1 st – 31 st January 2024	Contract 3	0	0	NA					
February 2024	Contract 3	0	0	NA					

10.2 OTHER ENVIRONMENTAL NON-COMPLIANCES

10.2.1 In addition, no emergency events related to violation of environmental legislation for illegal dumping and landfilling were received in the Reporting Period.



11 IMPLEMENTATION STATUS OF MITIGATION MEASURES

11.1 GENERAL REQUIREMENTS

- 11.1.1 The environmental mitigation measures that recommended in the ISEMM in the EM&A Manual covered the issues of dust, noise, water and waste and they are summarised presented in *Appendix N*.
- 11.1.2 The Contract Works under the Project shall be implementing the required environmental mitigation measures according to the EM&A Manual as subject to the site condition. Environmental mitigation measures generally implemented by the Contractor and the implementation status are shown in *Appendix N*.

11.2 TENTATIVE CONSTRUCTION ACTIVITIES IN THE COMING MONTH

11.2.1 According to information provided by the Contractor, the construction works under the Contract in the coming month are listed below:

Contract No.	Construction Activities undertaken in nex	t Reporting Period
	Non-designated work	Designated work
YL/2021/03 (Contract 1)	 Demolition works Ground Investigation Site Hoarding Site Clearance Site Formation Construction of drainage system Piling works 	N/A
YL/2021/04 (Contract 2)	 For Portion 14 Soil Excavation Temporary access and haul road formation For portion 11: Prebored Socket H-pile installation Construction of Detour Road For 1A: Soil excavation ELS and Construction for CUT For 11A: Backfilling works of ELS 	 Nullah Road Set back works Site clearance (under nullah) Temporary decking installation Prebored Socket H-pile installation Nullah Reinstatement Works
YL/2022/01	ELS and Construction for CUT Site Clearance	EP-548/2018/A
(Contract 3)	 GI Works Tree Felling Demolition Decontamination Construction of RW12, RW30 and RW35 Sheet Pile Installation for Box Culvert BC01 Pre-bored H pile at Fui Sha Wai South Road and MSB Site ELS Construction for Subway M 	 Nil EP-549/2018 Nil EP-550/2018/A Bored pile construction for Bridge F EP-551/2018/A Nil

 Table 11-1
 Summary of Construction Activities in the next Reporting Period

11.3 KEY ISSUES FOR THE COMING MONTH

11.3.1 Key issues for the coming month include the following:

• Implementation of control measures for rainstorm;

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- Regular clearance of stagnant water;
- Implementation of dust suppression measures at all times;
- Potential wastewater quality impact due to surface runoff;
- Potential fugitive dust quality impact due from the dry/loose/exposure soil surface/dusty material;
- Disposal of empty engine oil containers within site area;
- Ensure dust suppression measures are implemented properly;
- Sediment catch-pits and silt removal facilities should be regularly maintained;
- Management of chemical wastes;
- Discharge of site effluent to the nearby wetland, stockpiling or disposal of materials, and any dredging or construction area at this area are prohibited;
- Follow-up of improvement on general waste management issues; and
- Implementation of construction noise preventative control measures.



12 CONCLUSIONS AND RECOMMENDATIONS

12.1 CONCLUSIONS

- 12.1.1 This is the Monthly EM&A Report presenting the monitoring results and inspection findings for the Project, for the Reporting Period from 1st to 29th February 2024.
- 12.1.2 No 1-hour TSP of air quality monitoring result that triggered the Action or Limit Levels was recorded. No corrective action was required.
- 12.1.3 In this Reporting Period, no noise complaint (which is an Action Level exceedance) was received and no construction noise measurement result triggered the Limit Level was recorded in this Reporting Month. No corrective action was issued.
- 12.1.4 In this Reporting Period, 2 Limit Level exceedances recorded for water quality monitoring. Once the exceedances detected by ET, notification were issued to ER, Contractor and IEC with preliminary investigation and on-site observation. The Contractor subsequently carried out detailed investigation and identified the source of impact. The investigation results of exceedances revealed the exceedances on 19 Feb 2024 were unlikely due to project, as there are no piling works or pre-drilling works to be conducted along concerns section (Shan Ha Road nullah), and there was no discharge made from the construction site. The investigation results have been agreed by the RE via email communication. Nevertheless, the Contractor was reminded to fully implement the water quality mitigation measure as far as practicable during the forthcoming construction work in the Nullah.
- 12.1.5 Bi-weekly inspection of landscape and visual impact and mitigation measures were conducted by ET during the weekly site inspection. It was observed that six individual trees under Contract 2 transplanted to the nursery site were in fair condition. For Contract 3, the transplanted trees in the nursery site were in fair health condition, however, general refuse was found stored in the nursery site on 29 February 2024. The Contractor had promptly removed the general refuse in the following day.
- 12.1.6 In the Reporting Month, no environmental complaint, summons and prosecution was received. In addition, no emergency events related to violation of environmental legislation for illegal dumping and landfilling were received.
- 12.1.7 In the Reporting Period, weekly joint site inspection to evaluate the site environmental performance had been carried out by the representatives of the Consultants, ET and the respective Contractor of Contract 1, Contract 2 and Contract 3. No non-compliance was noted during the site inspection.

12.2 RECOMMENDATIONS

- 12.2.1 The Contractor should pay special attention on the water quality mitigation measures and fully implement according to the ISEMM of the EM&A Manual, in particular to prevent surface runoff with high SS content and other pollutants from flowing to stream. All effluent discharge shall be ensure to fulfill Technical Memorandum of Effluent Discharged into Drainage and Sewerage Systems, inland and Coastal Waters criteria or discharge permits stipulation.
- 12.2.2 Construction noise would be a key environmental issue during construction work of the Project. Noise mitigation measures such as using quiet plants and/ or using movable temporary noise barriers should be implemented as stipulated under EM&A Manual to ensure construction noise impacts at the NSRs comply with the noise criteria.
- 12.2.3 Since the Works Contract located adjacent to villages, potential construction dust impact should be minimised. The Contractor should fully implement the air quality mitigation measures to reduce construction dust emission as far as practicable.
- 12.2.4 All other mitigation measures recommended in the ISEMM of the EM&A Manual should be properly implemented and maintained as far as practicable.



Appendix A

General layout of YLS First Phase Development





Appendix B

Schedule 2 Designated Projects

under YLS First Phase Development



Environmental Permit No. EP-549/2018 環境許可證編號: EP-549/2018



Project Title: Construction of New Primary Distributor Roads (Tong Yan San Tsuen Interchange) for Housing Sites in Yuen Long South 工程項目名稱:元朗南房屋用地新建的主要幹路(唐人新村交匯處)

Figure 1: Project Location Plan	
圖 1: 工程項目位置圖	

Legend 圖例	
■ ■ ■ Development Area L ■ J (DA) 發展區	
 Works Boundary Outside DA 發展區外的施工範圍 	

Environmental Permit No. : EP-548/2018/A : EP-548/2018/A



Environmental Permit No. EP-550/2018/A 環境許可證編號: EP-550/2018/A







Appendix C

Project Organization and the key personal contact

Organization	Project Role	Name of Key Staff	Tel No.	Fax No.
CEDD	Project Proponent	Mr. NG Kam Leung, Julian	2158 5612	2693 2918
AECOM	Chief Resident Engineer	Mr. Alex Chan	5208 5837	3549 5678
Tung Lee	Construction Manager	Mr. Lam Wai Hong, Eric	6097 5644	2352 6740
Tung Lee	Site Agent	Mr. Chan Tan Kit	9681 8144	2352 6740
Tung Lee	Environmental Officer	Mr. Liu Ho Kan, Frank	6900 3526	2352 6740
Tung Lee	Environmental Supervisor	Mr. Kam Yun Sang, Johnny	6178 4786	2352 6740
Telemax	Independent Environmental Checker	Ir. Neslon Tam	9626 1239	3563 7018
Ford	Environmental Team Leader	Mr. Tam Tak Wing	2959 6059	2959 6079
Ford	Deputy Environmental Team Leader	Mr. Ben Tam	2959 6059	2959 6079
Ford	Environmental Consultant	Ms. Nicola Hon	2959 6059	2959 6079

Contact Details of Key Personnel for Contract YL/2021/03 (Contract 1)

Ford Business

national Ltd.

Legend:

CEDD - (Project Proponent) – Civil Engineering and Development Department

AECOM - (Consultant) – AECOM Asia Company Limited

Telemax (IEC) – Telemax Environmental and Energy Management Ltd

Ford (ET) – Ford Business International Limited

Tung Lee - (the Contractor of the Contract YL/2021/04) – Tung Lee Engineering Co.

Organization	Project Role	Name of Key Staff	Tel No.	Fax No.
CEDD	Project Proponent	Mr. NG Kam Leung, Julian	2158 5612	2693 2918
AECOM	Chief Resident Engineer	Alex Chan	5208 5837	3549 5678
CREC - JV	Project Manager	Albert Yau	6468 7702	3549 5679
CREC - JV	Construction Manager	Stephen Lee	9641 5345	3549 5679
CREC - JV	Site Agent	Jim Ko	9632 9163	3549 5679
CREC - JV	Environmental Officer	Kelvin Cheung	9060 1020	3549 5679
CREC - JV	Environmental Supervisor	Karen Leung	5239 3606	3549 5679
Telemax	Independent Environmental Checker	Ir. Neslon Tam	9626 1239	3563 7018
Ford	Environmental Team Leader	Tam Tak Wing	2959 6059	2959 6079
Ford	Deputy Environmental Team Leader	Ben Tam	2959 6059	2959 6079
Ford	Environmental Consultant	Nicola Hon	2959 6059	2959 6079

Contact Details of Key Personnel for Contract YL/2021/04 (Contract 2)

Ford Business

national Ltd.

Legend:

CEDD - (Project Proponent) – Civil Engineering and Development Department

AECOM - (Consultant) – AECOM Asia Company Limited

Telemax (IEC) – Telemax Environmental and Energy Management Ltd

Ford (ET) – Ford Business International Limited

Organization	Project Role	Name of Key Staff	Tel No.	Fax No.
CEDD	Project Proponent	Mr. NG Kam Leung, Julian	2158 5612	2693 2918
AECOM	Chief Resident Engineer	Mr. Barry Lee	2349 5665	3549 5678
CRBC	Project Manager	Rayment Suen	9779 8871	3905 8562
CRBC	Deputy Construction Manager	Zheng Lei	5335 0451	3905 8562
CRBC	Site Agent	Danil Wong	53359572	3905 8562
CRBC	Environmental Officer	Calvin So	9724 6254	3905 8562
CRBC	Environmental Supervisor	Elvis Leung	6995 9685	3905 8562
Telemax	Independent Environmental Checker	Ir. Neslon Tam	9626 1239	3563 7018
Ford	Environmental Team Leader	Tam Tak Wing	2959 6059	2959 6079
Ford	Deputy Environmental Team Leader	Ben Tam	2959 6059	2959 6079
Ford	Environmental Consultant	Nicola Hon	2959 6059	2959 6079

Contact Details of Key Personnel for Contract YL/2022/01 (Contract 3)

Ford Business

ational Ltd.

Legend:

CEDD - (Project Proponent) – Civil Engineering and Development Department

AECOM - (Consultant) – AECOM Asia Company Limited

Telemax (IEC) – Telemax Environmental and Energy Management Ltd

Ford (ET) – Ford Business International Limited

CRBC - JV (the Contractor of the Contract YL/2022/01) – China Road and Bridge Corporation



Appendix D

3-month Rolling Construction Programme

- (I) Contract 1
- (II) Contract 2
- (III) Contract 3



3-month Rolling Construction Programme of Contract 1

					C	Contract No	o. YL/2021/03 - :	Site Formation and Infr REV	rastrcture Wor ISED PROGR/	rks for Yuen Lo AME (REV. 8) (0	ong South First Pha DCT 2023)	ase Development - Contra	act 1							
# Ac	ivity D	ActivityName	Original Act Duration Dura	tual Start ation	Finish	Late Start Late Finish	Actual Start Actual % Finish Complete	Total 22 Float 03	04	01 01	2023	04 01	m	2024	03	24	01	2025	03	04
1	YL2021-10-N	PU Contract No. YL/2021/03	1350 41	14 22-Aug-22A	28-Apr-26 2	24-May-23 28-Apr-26	22-Aug-22 30.81%	0	<u>v</u> 4	ui uz	40	Q4 Q1				24	QI	02	40	Q4
2	TL2021-10	MPU.CDP Contract Data Part 1	1350 36 1350 6	61 23-Aug-22A	28-Apr-26	19-Oct-23 28-Apr-26	23-Aug-22 48.52%													
4	G0-CD	Contract Date	0 0) 23-Aug-22A		19-Oct-23	23-Aug-22 100%	Contract Date, 23-Aug-22A												
5 6	G1-SD	Starting Date Contract Completion Date (sd + 973d)	0 0) 29-Aug-22A)	28-Apr-25*	19-Oct-23 28-Apr-25	29+Aug-22 100%	0	^									Contract Completi	on Dalle (sd + 973d),	
7 8	G2-CD2	Planned Completion Date Establishment Works (385d)	0 0	D D	28-Apr-25* 28-Apr-26*	28-Apr-25 28-Apr-26	0%	0										 Planned Completion 	m Date,	
9		PU.CDRAD Access Dates to Part of Site	211 16	61 09-Dec-22A	19-May-23A 2	20-Oct-23 28-Apr-26	09-Dec-22 19-May-23 100%		-	Partian	19-May-23A, YL2021-10-MPU.CDPAD Acce 14/SD + 24210 28-Anr-23A	ass Dates to Part of Site								
10	AD1A	Portion 1A(SD + 2420) Portion 1B (SD + 2420)	0 0	28-Apr-23A 28-Apr-23A		31-Oct-23	28-Apr-23 100%			Portion	n 18 (SD + 242d), 28-Apr-23A									
12 13	AD2A	Portion 2A (SD + 242d) Portion 3A (SD + 242d)	0 0	28-Apr-23A 24-Mar-23A	1	28-Nov-23 20-Oct-23	28-Apr-23 100% 24-Mar-23 100%			 Portion 3A (SD + 24 	n 24, (SD + 242d), 28-Apr-23.A 12d), 24-Mar-23.A									
14	AD3B	Portion 3B (SD +242d)	0 0) 28-Dec-22A	1	20-Oct-23	28-Dec-22 100%		 Portion 3B (SI 	D+242d), 28-Dec-22A	12m 24-Mar-23A									
15	AD3C	Portion 3.2 (SD + 24.20) Portion 4 (SD + 121d)	0 0	0 24+Mar-23A 0 09-Dec-22A		20-00f-23 15-Sep-24	24+Mar-23 100% 09-Dec-22 100%		Pontion 4 (SD + 121d)	(), 09-Dec-22A										
17 18	AD4A	Portion 4A (SD + 242d) Portion 4B (SD + 242d)	0 0	28-Apr-23A 27-Feb-23A	2	28-Apr-26 20-Oct-23	28-Apr-23 100% 27-Feb-23 100%			 Portion 48 (SD + 242d), 27-Fi 	144(SD + 242d), 28-Apr-23 A eb-23A									
19	AD5	Portion 5 (SD + 121d)	0 0	0 30-Dec-22A	1	28-Apr-26	30-Dec-22 100%		♦ Portion 5 (SE	0+1218), 30-Dec-22A	14Mar.234									
20	AD58	Portion 58 (SD + 2420) Portion 58 (SD + 2420)	0 0	0 14+1var-23A 0 19-May-23A	2	28-Apr-26	19-May-23 100%			• • • • • • •	Partion 5B (SD + 242d), 19 May-23A									
22 23	Price Solution Solution	IPU,CDP,CD Contract Section Completion Date Section 1 (AD1A+475d) - Works in Portion 1A	964 9 0 0	14-May-23A	28-Apr-26 15-Aug-24*	15-Aug-24 28-Apr-26 15-Aug-24	14-May-23 35,58% 0%	0							Section 1 (AD1A+475d) - Wor	rks in Portion 1A,				
24	S02	Section 2 (AD2A + 475d) - Works in Portion 2A	0 0	0	15-Aug-24*	15-Aug-24	0%	0							Section 2 (AD2A + 475d) - Wor	rks in Portion 2A,	♦ Section	m 3 (ÁD3A/AD3B/AD3C	+ 731d) - Works in Portion 3A	A.38.3C
23	S04	Section 4 (AD4/AD4A/AD4B + 731d) - Works in Portion 4, 4A, 4B	0 0	,)	28-Apr-25*	24-War-25 28-Apr-25	0%	0										Section 4 (AD4/AI)	04A/AD4B + 731d) - Works in	Portion 4, 4A, 4B,
27 28	S05	Section 5 (AD1B + 475d) - Works in Portion 1B Section 6 (AD5/AD5A + 61d) - Works in Portion 5, 5A	0 0	0	15-Aug-24* 14-May-23A	15-Aug-24 28-Apr-26	0% 14-May-23 100%	0		• \$	Section 6 (AD5/AD5A + 61d) - Works in Partion	15; 54 ,			 Section 5 (AD1B + 475d) - Wo 	rks in Portion 1B,				
29	S07	Section 7 (AD5B + 92d) - Works in Portion 5B	0 0	2	19-Aug-23A	28-Apr-26	19-Aug-23 100%	0			Section 7 (#	AD58 + 92d) - Works in Portion 5B,						Section 8 (SD+9	(3d) Preservation and protectic	on of existing trees
30	S09	Section 9 (SD + 9730) Free value raint protection of existing trees Section 9 (SD + 973d) Landscape softworks	0 0	,)	28-Apr-25*	28-Apr-25	0%	0										Section 9(SD+9)	/3d) Landscape softworks	
32 33	S10	Section 10 (S9 + 365d) Establishment IPU.CDP.PCD Planned Section Completion Date	0 C 964 9) 17 14-May-23A	28-Apr-26* 28-Apr-26	28-Apr-26 15-Aug-24 28-Apr-26	0% 14-May-23 27.9%	0		-										
34	PS01	Section 1 (AD1A + 475d) - Works in Portion 1A Section 2 (AD2A + 475t) - Works in Portion 2A	0 0	0	20-Jun-24*	15-Aug-24	0%	56						 Section 1 (AD1A) Section 2 (AD2A + 475) 	+ 475d) - Works in Portion 1A, - Works in Portion 2A.					
36	PS03	Section 3 (AD3A/AD3B/AD3C + 731d) - Works in Portion 3A, 3B, 3	3C 0 0	5 D	08-Aug-25*	24-Mar-25	0%	-137											♦ Section 3	(AD3A/AD3B/AD3C
37 38	PS04	Section 4 (AD4/AD4A/AD4B + 731d) - Works in Portion 4, 4A, 4B Section 5 (AD1B + 475d) - Works in Portion 1B	0 0	D D	17-Apr-25* 23-Jul-24*	28-Apr-25 15-Aug-24	0%	11 23						♦ Şect	on 5 (AjD1B + 475jd) - Works in Po	rtion 1₿,		Section 4 (AD4/AD4A	AD4B + 731d) - Works in:Po	ton 4, 4A, 4B,
39	PS06	Section 6 (AD5/AD5A + 61d) - Works in Portion 5, 5A	0 0	0	14-May-23A	28-Apr-26	14-May-23 100%			• \$	Section 6 (ADS/AD5A + 61d) - Works in Portion	15,5 <mark>4</mark> , AD5 6 + 92d) - Works in Partian 56.								
40	PS07	Section 7 (ACook + 920) - Works in Pontor 36 Section 8 (SD + 973d) Preservation and Protection of Existing Trees	s 0 0) D	28-Apr-25*	28-Apr-25	19-Aug-23 100%	0										Section 8(SD+9)	(3d) Preservation and Protecti	on of Existing Trees,
42 43	PS09 PS10	Section 9 (SD + 973d) Landscape Softworks Section 10 (S9 + 365d) Establishment	0 0))	28 Apr-25* 28 Apr-26*	28-Apr-25 28-Apr-26	0%	0										Section 9/(SD+9)	73d) Landscape Softworks,	
44	💾 YL2021-10-	MPU.SP Submission and Preparation	728 40	15 29-Aug-22A	14-Aug-24	19-Oct-23 28-Apr-26	29-Aug-22 57.14%	622							14.Aug-24, YL2021-10-MPU-SF	P Submission and Preparation	4			
45 46	YL2021-10-	IPU.SP1 General Submission MPU.SP1PRE Premiimary Submission	726 38 487 36	32 29-Aug-22A 32 29-Aug-22A	25-Sep-23A	19-Oct-23 26-Apr-26 19-Oct-23 28-Apr-26	29-Aug-22 25-Sep-23 100%				•	2 Sep 23A, YL2021 10 MPU.SP.1 PRE Premlimary Submis	nission							
47 48	PRE-0 PRE-0 PRE-0	0 Submission of Temporary Traffic Arrangement (TTA) Scheme 1 Approval of TTA Scheme	40 4	0 18-Sep-22A 8 09-Mar-23A	27-Oct-22A 2 25-May-23A 2	20-Oct-23 20-Oct-23 20-Oct-23 20-Oct-23	18-Sep-22 27-Oct-22 100% 09-Mar-23 25-May-23 100%	S	ubmissión of Tempotary Traffic Arra	angement (TTA) Scheme	Approvel of TTA Scheme									
49	PRE-0	5 Preparation, submission and approal of Tree Preservation and Remo 0 PS 110C Submission of Traffic InnertAssessment Report (TA)	noval Proposal (TPRP) 180 16	62 18-Jan-23A	29-Jun-23A	19-0d-23 19-0d-23	18-Jan-23 29-Jun-23 100%		S 1 10° Si kmissein of Traffician	and Actorsment Provet (TIA)	Preparatién, submission and ap	pproal of Tree Preservation and Removal Proposal (TPRP)								
51	PRE-0	0 CD-1 Submission of First Programme	123 6	4 29-Aug-22A	31-Oct-22A 2	28-Apr-25 28-Apr-25	29-Aug-22 31-Oct-22 100%		CP-1 Submission	n of First Programme										
52 53	PRE-0 PRE-0	0 PS1.08S(1) Submission First Three Month Rolling Programme 0 PS1.48 Submission of Hoarding Plan	81 8 14 1:	1 06-Sep-22A 5 06-Feb-23A	25-Nov-22A 2 20-Feb-23A	28-Apr-25 28-Apr-25 05-Dec-24 05-Dec-24	06-Sep-22 25-Nov-22 100% 06-Feb-23 20-Feb-23 100%		-	PS1.08S(1) Submission PS1.48 Submission of Hoardin	First Three Month Rolling Programme ig Plan									
54	PRE-0	5 ContaminationAssessment 0 Submission of ConteminiationAssessment Plan (CAP)	23 2	3 03-Oct-22A	25-Oct-22A 2	20-Oct-23 20-Oct-23 20-Oct-23 20-Oct-23 20-Oct-23	03-Oct-22 25-Oct-22 100%		ntamination Assessment	aminiation Accessment Plan (CAP)										
56	PRE-0	1 Approval of CAP	76 9	19-Nov-22A	21-Feb-23A 2	20-Oct-23 20-Oct-23	19-Nov-22 21-Feb-23 100%			Approval of CAP										
57 58	PRE-0 PRE-0	0 PS124A Temporary Drainage Management Plan 0 PS1121 (1) Submission of Construction ImpactAssessment	30 4 45 11	0 06-Apr-23A 16 01-Jun-23A	16-May-23A 2 25-Sep-23A 2	28-Apr-26 28-Apr-26 28-Apr-25 28-Apr-25	06-Apr-23 16-May-23 100% 01-Jun-23 25-Sep-23 100%					P\$1.121 (1) Submission of Construction ImpactAssessment	e Management Plañ t							
59 60	PRE-1	0 PS1.130 and ACC D20(2) Environmental Management Plan PSA.139 BIM Submission	21 4	7 02-Sep-22A	18-Oct-22A 2	28-Apr-25 28-Apr-25 28-Apr-25 28-Apr-25	02-Sep-22 18-Oct-22 100% 13-Anr-23 19-Jun-23 100%	P\$1:	130 and ACC D20(2) Environmenta	l Management Plan	PSA 130 BMS (braission									
61	PRE-1	0 PS 1.151 Caring Visit for Local Villagers	208 7	1 03-Oct-22A	12-Dec-22A	28-Apr-25 28-Apr-25	03-Oct-22 12-Dec-22 100%			PS 1.151 Caring Visit fo	or Local Villagers									
62	PRE-1 PRE-1	6 CD-1 Review, Resubmit and Approval of First Programme 7 Submission and Approval of Sub-Contractor Tendering Procedure	90 13 120 2	35 29-Aug-22A 18 09-Dec-22A	10-Jan-23A 2 05-Jan-23A	28-Apr-25 28-Apr-25 16-Feb-24 16-Feb-24	29+Aug-22 10-Jan-23 100% 09-Dec-22 05-Jan-23 100%		Submissio	CD-1 Review/Resubm on and Approval of Sub-Contractor Tend	nit and Approval of First Programme dering Procedure									
64 65	PRE-1 PRE-1	 ACC C5 (1) Submission and Approval of Sub-Contractor Managem PS 1.58 (A)(1) Submission and Approval of Safety Traffic Managem 	nentPlan 120 6 mentPlan 120 9	6 05-Oct-22A 12 16-Feb-23A	10-Oct-22A 18-May-23A 2	16-Feb-24 16-Feb-24 20-Oct-23 20-Oct-23	05-Oct-22 10-Oct-22 100% 16-Feb-23 18-May-23 100%		ACC C5(1) Subm	ission and Approval of Sub-Contractor	Management Plan PS 1,58 (A)(1) Submission and Approval of Sa	aføtv Traffic Management/Plan								
66 67	YL2021-1	MPUSP12 Design Submission	717 8	1 09-Nov-22A	14-Aug-24 21-Nov-23	06-Feb-24 28-Apr-26	09-Nor-22 56,49%	622 121				Barrian Cubaritation and Amera of Fer Inite	iantino Runtom		14-Aug-24, YL2021-10-MPU-SF	P12 Design Submission				
68	PRE-1	Design Submission and Approval for Street Lighting System	45 0	0 07-Nov-23*	21-Dec-23	17-Mar-24 30-Apr-24	0%	131				Design Submission and Approve for Imga	proval for Street Lighting Sys	sterh						
69 70	PRE-1 PRE-1	0 Design Submission and Approval for E&MWorks of CLP Standalo 5 Design Submission and Approval for E&MWorks of Refuse Collec	crien Substation 45 C ction Point 45 C	0 01-Jul-24 0 08-Oct-23*	14-Aug-24 2 21-Nov-23	23-Jul-24 05-Sep-24 11-Oct-24 24-Nov-24	0%	22 369				Design Submission and Approval for E&A	&MW orks of Refuse Colle	ction Point	Design Submission and Approv	al for E&MWorks of CLP Sta	andalone Substation			
71	PRE-1	0 Design Submission and Approval for Temporary Access Road	120 8	11 09-Nov-22A	28-Jan-23A 2	28-Apr-26 28-Apr-26	09-Nov-22 28-Jan-23 100%	53	D	esign Submission and Approval for Ten	mpoiranyAccessis Road			3 0 Jun 24 Vi	2021-10-MPU.SPSUB Sublettinn					
73	SUB-010	Subleting of TTA	15 1:	5 01-Dec-22A	15-Dec-22A 2	20-Oct-23 20-Oct-23	01-Dec-22 15-Dec-22 100%		Subjetting of TTA											
74 75	SUB-040	Subleting of Specialist of Contamination Subleting of GIWorks	20 2 81 7	0 29-Aug-22A 7 01-Dec-22A	17-Sep-22A 2 07-Dec-22A 2	20-Oct-23 20-Oct-23 20-Oct-23 20-Oct-23 20-Oct-23 20-Oct-23	29-Aug-22 17-Sep-22 100% 01-Dec-22 07-Dec-22 100%	Subletting of Spe	cialist of Contamination Subletting of GIW ork	s										
76 77	SUB-060	Subletting of Water Pipe and Sewage Works Subletting of Road Lighting Works	30 0	0 08-Oct-23 0 08-Oct-23	06-Nov-23	19-Jun-24 18-Jul-24 16-Feb-24 16-Mar-24	0%	255 212				Subletting of Water Pipe and Sewage Works Subletting of Road Lighting Works	5							
78	SUB-080	Subleting of CLP Standalone Substation	30 0	0 01-Jun-24*	30-Jun-24 2	23-Jun-24 22-Jul-24	0%	22				or and a stand of the stand of		Subletting of (LP Standalone Substation					
79 80	SUB-090	Subleting of Refuse Collection Point IPU, SP, PREP Preparation	30 0 404 40	u 01-Jun-24 15 29-Aug-22A	30-Jun-24* 2 03-Dec-23	24-Jul-24 22-Aug-24 19-Oct-23 28-Apr-25	0% 29-Aug-22 85,89%	ວນ 512				03 Dec 23, YL2021-10-MPU.\$PPR	REP Preparation	Subletting of F	eruse Collection Point					
81 82	PREP-010	Liaison with Local Village Resident Pre-construction Conditional Survey	240 24 190 %	43 29-Aug-22A 61 12-Oct-22A	28-Apr-23A 2 03-Dec-23	28-Apr-25 28-Apr-25 03-Mar-25 28-Anr-25	29-Aug-22 28-Apr-23 100% 12-Oct-22 70%	512		Liaisor	n with Local Village Resident	Pre-construction Conditional Survey	av							
83	PREP-030	Tree Survey and Protection	90 11	16 29-Aug-22A	22-Dec-22A	19-Oct-23 19-Oct-23	29-Aug-22 22-Dec-22 100%		Tree Survey and	dProtection		The comparation requiring and they	·							
84 85	PREP-04 PREP-05	UU Detection Erection of Cement Solidification Facility	240 25 40 1:	5 29-Aug-22A 28-Aug-23A	13-May-23A 2 12-Sep-23A 0	26-Apr-25 28-Apr-25 09-Apr-24 09-Apr-24	29-Aug-22 13-May-23 100% 28-Aug-23 12-Sep-23 100%				JU Detection	Erection of Cement Solidification Facility								
86 87	PREP-070	Monitoring point - BSM and TM	30 6 1339 41	15 04-Aug-23A	09-Oct-23 28-Apr-26	15-Nov-23 16-Nov-23 24-May-23 28-Apr-26	04-Aug-23 95% 22-Aug-22 30.25%	39				Monitoring point-IBSM and TM								
88	YL2021-10-	IPU.C.S1 Section 1 - Comprises all Works within Portion 1A of	f the Site 420 20	08 16-Mar-23A	20-Jun-24	03-Dec-23 28-Apr-26	16-Mar-23 38,81%	677		<u> </u>				20-Jun-24, YL202	1-10-MPU.C.S1 Section 1 - Comp	rises all Works within Portion	1A of the Site			
89 90	VL2021-10	MPUC.S1.1 General Works 0 Erection of Hoarding (280 m)	99 20 28 4	06 16-Mar-23A 14 25-Aug-23A	10-Oct-23 10-Oct-23	13-Feb-24 28-Apr-26 13-Aug-24 15-Aug-24	16-Mar-23 97.17% 25-Aug-23 90%	931 310				TU-UCE-23, YL2/21-10-MPU/CCS1.1 General Works Erection of Hoarding (280 m)								
91 92	- WS1-0	20 Demolifion of Existing Structure (3250 m2) 30 Site Clearance	17 5	2 25-Apr-23A	16-Jun-23A 2	28-Apr-26 28-Apr-26 15-Aug-24 15-Aug-24	25-Apr-23 16-Jun-23 100% 01-Jun-23 16-Jul-23 100%				Demolition of Existing Structure (32	5ġm2)								
93	- WS1-0	0 Environmental GIW orks (Toal 61 nos.)	62 10	06 16-Mar-23A	29-Jun-23A	13-Feb-24 13-Feb-24	16-Mar-23 29-Jun-23 100%				Environmental GIW orks (Toal	61 mps.)								
94 95	WS1-0	W Tree Feling (112 nr) MPU.C.S1.2 Land Decontamination Works	4 7 247 5	9 20-May-23A 4 15-Aug-23A	07-Aug-23A 10-Mar-24	13-Apr-24 13-Apr-24 13-Feb-24 16-Jul-24	20-May-23 07-Aug-23 100% 15-Aug-23 37.25%	128			Tree Felling (112	2(#)	10-Mar-24, YL2021-10-M	PUCS12 Land Decontarhina	ion Works					
96 97	- WS1-0	Submisson of ContaminationAssessment Report (CAR) Submission of RemediationAction Plan (RAP)	14 4	9 15-Aug-23A 9 15-Aug-23A	03-Oct-23A 03-Oct-23A	13-Feb-24 13-Feb-24 13-Feb-24 13-Feb-24	15-Aug-23 03-Oct-23 100% 15-Aug-23 03-Oct-23 100%					Submission of Contamination Assessment Report (CAR) Submission of Remediation Action Plan (RAP)								
98	📼 ws1-0	Approval of RAP	60 5	5 03-Oct-23A	06-Dec-23	13-Feb-24 12-Apr-24	03-Oct-23 0%	128				Approval of RAP								
ļ						A . 4 11	A/				0.04.5.	and lafae to the state of the	<i>t</i>			Date	Re	evision 1	Checked	An
		IUNG LEE	 Kemaining Level 	I OT Effort			VVOIK		Contract No. YL/2021/03 - Site Formation and Infrastrcture Works for Page 1					1 of 3	15-Aug-23	Rev 6		WCF		
		NGINEERING COMPANY	 Actual Level of Et 	ffort		Remain	ning Work	summary	"							09-Sen-23	Rev 7		WCF	
			Primary Baseline	•		Critical	Remaining Work			REVISED	PROGRAMME (RE	EV. 8) (UCT 2023)				08-0-t-22	Rov 9		WCF	
1																00-00-23	1/64.0			

	ActivyD Original Actail Start Start Freeh Lale Start Massing Freeh Ma														
# Ac	ctivityID ActivityName	Original Actual Start Finish Late-Start Late-Finish Actual Start Actual % Total 22 Duration Duration	03 04	2023	2024	01	2025	Q3 Q4							
99	WS1-060 Excavation for Contaminated Soil (81m3)	5 0 07-Dec-23 11-Dec-23 13-Apr-24 17-Apr-24 0% 128		Excaluation for Contaminated Soil (81m3)											
100	WS1-080 Deposition, Compaction of Treated Material (81 m3)	2.5 0 12-DB0-2.3 USUBIN24 18-AQIF-24 12-MB/2.4 0% 1.28 5 0 06-Jan-24 10-Jan-24 13-May-24 17-May-24 0% 128		Depoisition Corrigaction of Treated Material (81 n	m3)										
102	WS1-091 Sumbission and Approval of Remediation Report (RR) U2021-(CMPLIC-S1.3 Other Site Works	60 0 11-Jan-24 10-Mar-24 18-May-24 16-Jul-24 0% 128 366 131 01-Jun-23A 20-Jun-24 03-Jun-24 01-Jun-23 334/2% 56		Sumbission and Approval	Iof Remediation Report (RR) 20 Jun-24, YL 2021-10-MPU.C.S.1.3 Other Site Works										
104	WS1-103 Removel of Existing CLP Utilities	300 151 0104/204 2004/204 0040/204 0404/		Remotel of Existing CLP Utilities											
105	WS1-104 Demolition of Existing Structure (P2A-S57 & S58, P1A-S61 & S62) WS1-105 Breaking of Artifical Hard Material and General Excavation	12 0 18-Oct-23A 16-Oct-23 08-Jut-24 16-Jut-24 18-Oct-23 25% 274 120 129 01-Jun-23A 18-Dec-23 03-Dec-23 12-Feb-24 01-Jun-23 40% 56		Breakity of Artifical Hard Material and General Ex	ncalation										
107	WS1-106 Construction of Drainage System (Catchpit along Portion 5B Interface) (3 nos.) WS1-107 Interface) (3 nos.)	45 63 24Jul-23A 25-Sep-23A 01-Apr-24 01-Apr-24 24Jul-23 25-Sep-23 100%		Çorstruction of Drainage System (Çatch pit along Portion SB Interface) (3 nos.)	_										
109	WS1-108 Import Fill for Portion 1A(TRA)	India 0 000000000000000000000000000000000000		input Fill for Portion 14(TRA	A)										
110	WS1-109 Deposition and Compaction of Fill material (6150m3)	140 0 08-Oct-23 24-Feb-24 06-Dec-23 23-Apr-24 0% 59 7 0 28-Feb-24 05-Mar-24 30-Apr-24 0% 56		Deposition and Compaction of F	Fill material (6150m3)										
112	WS1-111 Construction of Drainage System (851m U-Channel and 4 nos. Catchpit)	100 0 05-Feb-24 14-May-24 01-Apr-24 09-Jul-24 0% 56			Construction of Drainage System (851th U-Channel and 4 nos. Catchr	,it)									
113	WS1-112 Construction of Drainage System (U-Channel and Catchpit) (TRA) WS1-113 Construction of Chain Link Fence	7 0 15-May-24 21-May-24 10-Jul-24 16-Jul-24 0% 56 30 0 22-May-24 20-Jun-24 17-Jul-24 15-Aug-24 0% 56			Construction of Drainage System (U-Channel and Catchpit) (TRA)										
115	YL2021-10-MPU.C.S2 Section 2 - Comprises all Works within Portion 2A of the Site	543 305 07-Dec-22A 02-Jun-24 23-Nov-23 23-Apr-26 07-Dec-22 55.99% 665		10 7.4 78.4 19 00 F 57.1 General Work	2-Jun 24, YL2021-10-MPULC \$2 Section 2- Comprises all W	/orks within Portion 2A of the Site									
116	WS2005 Environmental GIWorks (Intermediate Stage)	320 243 0/D85-224 0/Aug-234 09Apr-24 25Apr-25 0/D85-22 0/Aug-23 100% 37 38 07-Dec-224 13-Jan-23A 09Apr-24 09Apr-24 07-Dec-22 13-Jan-23 100%		Environmental/GIWorks (Intermediate Stage)											
118	WS2-010 Erection of Hoarding (800 m) WS2-015 Environmental GIWorks (Toral 27 nos.)	80 21 15May-23A 05Jun-23A 09-Apr-24 09-Apr-24 15May-23 05-Jun-23 100% 30 35 24-Feb-23A 30-Mar-23A 09-Apr-24 09-Apr-24 24-Feb-23 30-Mar-23 100%		Eecland/Haarding(800m)											
120	WS2-020 Demdition of Existing Structure (3250 m2)	20 30 09-Feb-23A 10-Mar-23A 28-Apr-26 28-Apr-26 09-Feb-23 10-Mar-23 100%		Demoliton of Elisting Studure (3230 m2)											
121	WS2-030 Site Clearance	28 179 09-Feb-23A 07-Aug-23A 28-Apr-26 28-Apr-26 09-Feb-23 07-Aug-23 100% 5 102 27-Apr-23A 07-Aug-23A 09-Apr-24 09-Apr-24 27-Apr-23 07-Aug-23 100%		Tree Feling (112/h)											
123	YL2021-10-MPU.C.S22 Land Decontamination Works	283 173 14-Apr-23A 14-Jan-24 09-Apr-24 16-Jul-24 14-Apr-23 66.02% 184		▼ 14Jan-24, YL2021-104WPLIC.S22 Land Dec	.ontamination Works										
124	WS2046 Submission of RemediationAction Plan (RAP)	14 39 14-Apr-23A 22-May-23A 09-Apr-24 09-Apr-24 14-Apr-23 22-May-23 100%		Submission of Remediation Action Plan (RAP)											
126	WS2-047 Approval of RAP WS2-060 Excavation for Contaminated Soil (30 m3)	60 45 08-Jul-23A 21-Aug-23A 09-Apr-24 09-Apr-24 08-Jul-23 21-Aug-23 100% 5 0 13-Seo-23A 13-Seo-23A 09-Apr-24 09-Apr-24 13-Seo-23 13-Seo-23 100%		Approval of RAP											
128	WS2-065 Pilot Test for Cement Soldification	45 12 22-Sep-23A 04-Oct-23A 09-Apr-24 09-Apr-24 22-Sep-23 04-Oct-23 100%		Pitot Test for Cement Soldification											
129 130	WS2-070 Cement Solidification (30 m3) WS2-080 Deposition and Compaction of Treated Material (30 m3)	36 0 08-Oct-23 12-Nov-23 09-Apr-24 14-May-24 0% 184 3 0 13-Nov-23 15-Nov-23 15-May-24 17-May-24 0% 184		Centent Solidification (30m3) Dejosition and Compaction of Treated Material (30m3)											
131	WS2-081 Sumbission and Approval of Remediation Report (RR)	60 0 16-Nor-23 14-Jan-24 18-Nay-24 16-Jul-24 0% 184		Surtitission and Approval of Remediation Repo	art (RR)										
132 133	WS2-112 Breaking of Artifical Hard Material and General Excavation	349 132 29May23A 0EUIn24 29Mor23 15Aug24 29May23 3152% /4 150 132 29May23A 06Nov23 28Nov23 27-Dec-23 29May23 80% 51		Breaking of Antifical Hard Material and General Excavation	actures, fizze interventes										
134	WS2-113 Construction of Drainage System (Catchpit along Portion 5B Interface) (3 nos.) WS2-114 Import Fill for Portion 2A (20050m3)	45 36 24JuL23A 29Aug-23A 17-Mar-24 17-Mar-24 24JuL-23 29Aug-23 100% 120 20 18-Sep-23A 30-Dep-23 28-Mar-23 19-Feb-24 18-Sep-23 30% 51		Constjuction of Dipinage System (Catchpit along Portion 5B Interface) (3	nos.)										
136	WS2-115 Import Fill for Portion 2A (TRA)	5 0 31-Dec-23 04-Jan-24* 20-Feb-24 24-Feb-24 0% 51		mport/illior Portion 24(CRA)											
137 138	WS2-116 Deposition and Compaction of Fill material (20050m3) WS2-117 Deposition and Compaction of Fill material (TRA)	160 110 20-Jun-23A 26-Dec-23 21-Dec-23 09-Mar-24 20-Jun-23 50% 74 7 0 27-Dec-23 02-Jan-24 10-Mar-24 16-Mar-24 0% 74		Deposition and Compaction of Fill material (20050m3)											
139	WS2-118 Construction of Drainage System (410m U-Channel and 1 nos. Catchpit)	112 0 03-Jan-24 23-Apr-24 17-Mar-24 06-Jul-24 0% 74		Çonstuc	ction of Drainage System (410m U-Channel and 1 nos. Catchgil)										
140	WS2-119 Construction of Drainage System (U-Channel and Catchpit) (TRA) WS2-120 Construction of Chain Link Fence	10 0 24Apr24 03-May24 07-Jul-24 16-Jul-24 0% 74 30 0 04-May24 02-Jun-24 17-Jul-24 15-Aug-24 0% 74			truction of Drainage System (U-Chankel and Catchpit) (TRA) Construction of Chain Link Fence										
142	YL2021-10-MPU.C.S3 Section 3 - Comprises all works Within Portion 3A, 3B 3C	1076 331 11-Nor-22A 08-Aug-25 24-May-23 28-Apr-26 11-Nor-22 37.64% 263		▼ 12.5cr/23A V/2021-10.MPH IC:S31 ExemptilWorks				V 08-Aug-25, YL2021-10-MPU/C							
143	WS3-005 CE004 - Removal of Existing Deccayed Tree Truck at Long Hon Road	417 305 11400-224 12365234 20-05-33 22-07-26 11400-22 1235523 100% 1 1 11-No+22 11-No+22 12-35524 100%	, ia	E004-Remolel of Existing Deccayed Tree Truck at Long High Road											
145 146	WS3-030 Site Clearance WS3-031 Erection of Hoarding (185 m)	14 37 01-Jul-23A 07-Aug-23A 28-Apr-26 28-Apr-26 01-Jul-23 07-Aug-23 100% 80 69 30-May-23A 07-Aug-23A 24-Mar-25 24-Mar-25 30-May-23 100% ::		Site Qiearance Erection of Hoarding (185m)											
147	WS3-032 Demolition of Existing Structure	7 19 05-May-23A 24-May-23A 20-Oct-23 20-Oct-23 05-May-23 24-May-23 100%		- Demoliton of Existing Structure											
148 149	WS3-034 GIWorks (2 nos) WS3-095 Implementation of TTA	28 32 13-Jan-23A 14Feb-23A 28-Apr-26 28-Apr-26 13-Jan-23 14Feb-23 100% 7 1 27-Jun-23A 27-Jun-23A 20-Oct-23 20-Oct-23 27-Jun-23 27-Jun-23 100%		GiWorks (2)oos)											
150	WS3211 Tree Felling	10 1 27-Jun-23A 27-Jun-23A 20-Oct-23 27-Jun-23 27-Jun-23 100%		l ← TreeFeling											
151	Additional Gilworks (Jinds) Additional Gilworks (Jinds) The YL2021-10-MPU,C,S3.3 Drainage, Water and Road Works	42 30 18JUE234 12Sep-234 25Apr-26 25Apr-26 18JUE23 12Sep-23 100% 671 54 15Aug-23A 08Aug-25 24Mar-25 15Aug-23 0% -137						08-Aug-25, YL2021-10-MPUX							
153 154	WS3-090 Removel of CLP Utilities WS3-097 Open Cut Excavation for Box Culvert DC04	17 0 08-Oct-23 24-Oct-23 24-May-23 09-Jun-23 0% -137 20 54 15-Aug-23A 27-Oct-23 20-Oct-23 06+Nor-23 15-Aug-23 0% 12		Removal of CLP Utilities											
155	WS3-098 Open Cut Excavation for Box Cutvert DC04 (Time Risk Allowance)	5 0 28-Oct-23 01-Nov-23 09-Nov-23 13-Nov-23 0% 12		Open Cit Excavation for Box Outvert DC04 (Time RiskAllowance)											
156	WS3-100 Construction of Box Culvert DC04 (20m) WS3-105 PMINo. 029 Construction of Parapet Wall (79m)	120 0 08Odt23* 04Feb24 10Jun-23 07-Odt23 0% -120 180 0 25-Odt-23 21-Apr-24 10Jun-23 06-Dec-23 0% -137		PM No.0	n) 029 Construction of Parapet Wall (79m)										
158	WS3-110 PMINo. 029 Construction of Drainage System (328 m)	103 0 26-Jan-24 07-May-24 14-Nov-23 24-Feb-24 0% -73 90 0 22-Arr-24 10-14-24 07-Den-23 24-Feb-24 0% -137		PM	INb. 029 Construction of Drainage System (328 m)										
160	WS3-130 Construction of Fresh Watermain (301 m)	80 0 27-Jun-24 14-Sep-24 11-Feb-24 30-Apr-24 0% -137			Catspication Gewage System (2011)	Vallermain (301 m)									
161 162	WS3-140 Construction of Flush Watermain (140 m) WS3-150 Construction of Inigation System (37 m)	80 0 27-Jun-24 14-Sep-24 11-Feb-24 30-Apr-24 0% -137 40 0 06-Aug-24 14-Sep-24 22-Mar-24 30-Apr-24 0% -137			Construction of Flush W Construction of Imigatio	/alemain (140m) In Sijstem (37m)									
163	WS3-155 Construction of Street Lighting System (330 m)	35 0 15Sep24 19-Oct-24 01-May-24 04-Jun-24 0% -137 450 0 -0.001 10 Jun-25 -0.001 </th <th></th> <th></th> <th>Constructi</th> <th>on of Street Lighting System (330 m</th> <th>n)</th> <th></th>			Constructi	on of Street Lighting System (330 m	n)								
165	WS3-160 Construction of Reing Blocks (Other than Carriageway)	130 0 2/HOR-24 19/Mar-25 06/UII-24 02/Mor-24 0% -13/ 28 0 19/Mar-25 15Apr-25 02/Nor-24 29/Nor-24 0% -137					Construction of Kerb and Foo	xipath wing Blocks (Other than Carriageway)							
166	WS3-170 Construction of Street Furniture WS3-180 Construction of Read Works (Carriagnum: (4701 m2))	65 0 17-Apr-25 20-Jun-25 01-Dec-24 03-Feb-25 0% -137 48 0 22-Jun-25 06-Aur-25 05-Feb-25 20-Jun-25 0% 477						Construction of Street Furniture							
168	WS3-185 Sile Formation	30 0 24-Jun-25 23-Jul-25 23-Feb-25 24-Mar-25 0% -13/						Site Formation							
169 170	YL2021-10-MPU.C.S34 Othe Site Works	551 0 22-Nor-23 25-May-25 06-Sep-24 24-Mar-25 0% -62 200 0 15-Aug-24* 02-Mar-25 06-Sep-24 24-Mar-25 0% 22					Construction of CLP Standalone Su	way-zo; YL2021-10 MPU C.S3,4 Othe Site Works ubstation							
171	WS3-200 Construction of Refuse Collection Point WS3-214 Construction of Carlier Table and Carlier 27	120 0 22-Nor-23* 20-Mar-24 25-Nor-24 24-Mar-25 0% 369		Construction of Refus	ve Callection Point		Contract Di								
173	WS3214 Constitution of Chain Link Fence WS3215 Construction of Chain Link Fence	40 0 16-Apr-25 25-May-25 13-Feb-25 24-Mar-25 0% -52				construction or Septic lank and	Con	nstruction of Chain Link Fence							
174	YL2021-10-MPU.C.S4 Section 4 - Comprises all Works within Portion 4, 4A 4B YL2021510MPU.C.S44 Portion 4	82 303 09-Dec-22A 17-Apr-25 19-Oct-23 28-Apr-26 09-Dec-22 35,27% 376 361 117 13-30-23A 23-Mae-34 15-Sec-24 28-Apr-25 13-30-27 37,4% 242			20-May-24, YL2021-10-WPU.C.S4.4 Portion 4		▼ 17-Apr-25, YL2021	1-10-MPUC.S4 Section 4 - Comprises al Works within							
176	WS4005 Erection of Hoarding	21 21 08Aug-23A 29Aug-23A 05Dec-24 05Dec-24 08Aug-23 100%		erection of Hoarding											
177	WS4-010 Appreation of Excavation Permit and Implementation of TTA WS4-015 Installation of ELS	IND III/ INDURAGA 2/-DEC-23 INNER/4 UH-DEC-24 INDURAGA 560,9% 343 20 0 28-DEC-23 16-Jan-24 05-DEC-24 24-DEC-24 0% 343		Application of Excavition Permit And Implementation of Excavition Permit And Implementation of ELS	J HA										
179	WS4016 Installation of ELS (Time Risk Allowance)	5 0 17-Jan-24 21-Jan-24 25-Dec-24 29-Dec-24 0% 343		Installation of ELS (Time RiskAlloyance)											
180	WS4020 Exclanation of Drainage System	30 0 22-38124 20-9524 20-962-2 20-872 20-972		Constuction of Drain	rage System										
182	WS4-040 Construction of Street Lighting System	30 0 22-Mar-24 20-Apr-24 28-Feb-25 29-Mar-25 0% 343 30 0 21-Apr-24 20-Mar-24 30-Mar-25 28-Apr-25 0% 343		Çorshuti	ion of Street Lighting System										
184	WS4060 Construction of Road Works	30 0 21-Apr-24 20-May-24 30-Mar-25 28-Apr-25 0% 343			Construction of Road Works										
185 186	WS4080 TreeFelling YL2021-10-MPU.C.S44AB Portion 4A & 4B	4 100 26-Jun-23A 04-Oct-23A 30-Dec-24 30-Dec-24 26-Jun-23 04-Oct-23 100% 882 303 09-Dec-22A 17-Aur-25 19-Oct-23 28-Aur-26 09-Dec-22 35-27% 376		Tree Falling		<u> </u>	17. Apr-25, YL2021	1-10 MPUC S444B Portion 4A&4B							
187	YL2021-10-MPUC-S44AB.1 General Works	374 303 09-Dec-22A 06-Nov-23 19-Oct-23 28-Apr-26 09-Dec-22 91,99% 904 20 20 09-Dec-22A 28-Dec-22A 30-Oct-23 20-Oct-23 09-Dec-22 92-Dec-29 1978		C6Nok-23, YL202-10AIPUC/S44AB,1 General Works Environmental GI Works (National Stack)											
189	WS4A-010 Erection of Hearding (521 m)	100 61 08-Aug-23A 06-Noi-23 30-Mar-26 28-Apr-26 08-Aug-23 70% 904		Erection of Hoarding (52(m))											
190 191	WS4A-020 Demolition of Existing Structure (689 m2) WS4A-030 Site Clearance	4 0 08-Oct-23" 11-Oct-23 25-Apr-26 28-Apr-26 0% 930 14 129 01-Jun-23A 21-Oct-23" 10-Mar-25 23-Mar-25 01-Jun-23 0% 519		Derriditor of Existing Structure (689m2)											
192	WS4A-032 GIWorks (2 nos.)	28 9 13-Mar-23A 21-Mar-23A 28-Apr-26 28-Apr-26 13-Mar-23 21-Mar-23 100%		GiWorks (2ms.)											
193 194	WS4A-033 Additional GIWorks (1 nos.) WS4A-040 Environmental GIWorks (Total 15 nos.)	14 16 26-Jun-23A 12-Jul-23A 28-Apr-26 28-Apr-26 26-Jun-23 12-Jul-23 100% 18 26 30-Mar-23A 25-Apr-23A 20-Oct-23 20-Oct-23 30-Mar-23 25-Apr-23 100%		Aditional GI Works (1 hos.)											
195	WS4A-211 Tree Feiling (96 nr)	10 104 26-Jun-23A 06-Oct-23 19-Oct-23 19-Oct-23 26-Jun-23 90% 11		Tree Felling (96 rr)	S446B 2 Land Decontamination Wirele										
196 197	VE2021FI0-MPUCIS44AB2 Land Decontamination Works WS4A-045 Submisson of ContaminationAssessment Report (CAR)	157 79 2150423A 201760-24 20106423 28-Agr-25 21-04-23 13.38% 433 14 21 21-04-23A 11-Aug-23A 201061-23 201061-23 21-04-23 11-Aug-23 100%		2/+e6-24, V2.221-104PUCLS	namow. Latin Decontamin Fallon WORKS										
198	WS4A-046 Submission of Remediation Action Plan (RAP)	14 21 21-Jul-23A 11-Aug-23A 20-Oct-23 20-Oct-23 21-Jul-23 100%		Submission of Remediation Action Plan (RAP)											
		naining Lovel of Effort	▲ Milesterre	Contract No. VI /2021/02 - Site Connection and Informations Manual for	D 0 00	Date	Revision	Checked Ap_							
				Vuon Long South First Phase Development Contract 4	Page 2 of 3	15-Aug-23	Rev.6								
	Actu	ual Level of Effort Remaining Work	summary			109-Sen-23	Rev 7	WCE							
	Prim	nary Baseline Critical Remaining Work		REVISED PROGRAMME (REV. 8) (OCT 2023)		00-0 00-20									
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								Contract	NO. YL/2021	/03 - Site	Formation	REVISED P	PROGRAME (RI	Fuen Long EV. 8) (OCT	2023)	nase Dev	elopment - C	Sontract 1								
N N	# 4	ctivity D		ActivityName	Original Actual	Start	Finish	Late Start Late F	inish Actual Start Actual	% Total	22				2023				202	84			2025			
Image: Section of the sec	100			4 1/212	Dualuri					Complete Hoat	Q3	Q4	Q1	Q2	Q3	C	24	Q1	Q2	Q3	Q4	Q1	Q2		Q3	Q4
V V <td< th=""><th>199</th><th></th><th>WS4A-047</th><th>Approval of RAP</th><th>60 58</th><th>11-Aug-23A</th><th>40.0+100</th><th>20400623 184N0</th><th>N-23 11-Aug-23</th><th>50% 12</th><th></th><th></th><th></th><th></th><th></th><th></th><th>Approval of RAP</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>	199		WS4A-047	Approval of RAP	60 58	11-Aug-23A	40.0+100	20400623 184N0	N-23 11-Aug-23	50% 12							Approval of RAP									
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No. <	205		WS4A-100	Construction of Retaining Wall (30 m)	50 0	06-Nov-23	25-Dec-23	17-Nov-23 05-Jar	n-24	0% 11							Construction	of Retaining Wall (30 m)								
	206		WS4A-110	Construction of Fill Slope (90 m3)	30 0	26-Dec-23	24-Jan-24	06-Jan-24 04-Fe	b-24	0% 11				·····			C	onstruction of Fill Slobe (90 m	3)			1				· † · · · · · †
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A A A B	208		💴 WS4A-114	Open Cut Excavation (Raod L2)	45 29	09-Sep-23A	10-Nov-23	19-Apr-24 22-Ma	y-24 09-Sep-23	25% 194					•		 Open Cut Excavation (Rao 	dL2)								
N N <th< td=""><th>209</th><td></td><td>🛄 WS4A-120</td><td>Construction of Drainage System (Road L2)</td><td>80 15</td><td>23-Sep-23A</td><td>06-Dec-23</td><td>18-May-24 16-Ju</td><td>1-24 23-Sep-23</td><td>25% 223</td><td></td><td></td><td></td><td></td><td></td><td>: :</td><td>Constru</td><td>ction of Drainage System (R</td><td>padL2)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	209		🛄 WS4A-120	Construction of Drainage System (Road L2)	80 15	23-Sep-23A	06-Dec-23	18-May-24 16-Ju	1-24 23-Sep-23	25% 223						: :	Constru	ction of Drainage System (R	padL2)							
Image: Properties and the stand of	210		WS4A-130	Construction of Sewage System (Road L2)	136 0	10-Nov-23	25-Mar-24	23-May-24 05-Oc	*-24	0% 194				ļļļ				Constru	ction of Sewage System (Ro	oad L2)						
0 0	211		WS4A-140	Construction of Fresh Watermain (Road L2)	70 0	10-Nov-23	19-Jan-24	19-Jul-24 26-Se	p-24	0% 251							Con	struction of Fresh Watermain	n (Road L2)							
1 1 0 <td< td=""><th>212</th><td></td><td>WS4A-150</td><td>Construction of Flush Water Main (Road L2)</td><td>70 0</td><td>10-Nov-23</td><td>19-Jan-24</td><td>19-Jul-24 26-Se</td><td>p-24</td><td>0% 251</td><td></td><td></td><td></td><td></td><td></td><td></td><td>Cpn</td><td>struction of Flush Water Mai</td><td>n (Road L2)</td><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td></td<>	212		WS4A-150	Construction of Flush Water Main (Road L2)	70 0	10-Nov-23	19-Jan-24	19-Jul-24 26-Se	p-24	0% 251							Cpn	struction of Flush Water Mai	n (Road L2)							1
0 0	213		W 544-152	Construction of ELS (Remaining)	a0 0	20-Jan-24	13-Apr-24	10 Feb-24 24-Ap	1-24	0% 11								1 1	Construction of ELS (Remai	ning)						
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Image: Normal Section	217		WS4A-158	Construction of Flush Water Main (Remaining)	70 0	17-Jul-24	24-Sep-24	28-Jul-24 05-Oc	1-24	0% 11									Cui	siddoridi Hesirwaterina	Construction of Flush Water Mai	Remaining				
Image: Properticies Image: Properities Image: Properities	218		WS4A-169	Construction of Kerb and Footpath	60 0	25-Sep-24	23-Nov-24	06-Oct-24 04-De	c-24	0% 11											Constructi	a of Kerband Footpath				1
Image: Market Mark	219			Construction of Street Lighting System (670 m)	70 0	24 Nov-24	01-Feb-25	15-Dec-24 22-Fe	b-25	0% 21												Construction of Stre	et Liahtina System (670 m)			
Image: Marrier Marrie	220		WS4A-171	Construction of Paving Blocks (Other than Carriageway)	28 0	24-Nov-24	21-Dec-24	05-Feb-25 04-Ma	r-25	0% 73												Construction of Paving Blocks (Oth	er than Carriageway)			
B V	221		🔲 WS4A-180	Construction of Street Furniture	65 0	02-Feb-25	07-Apr-25	23-Feb-25 28-Ap	r-25	0% 21													Construction of Street Fur	iture		1 1
No. No. <th>222</th> <td></td> <td>🔲 WS4A-190</td> <td>Construction of Road Works (4929 m2)</td> <td>60 0</td> <td>24-Nov-24</td> <td>22-Jan-25</td> <td>05-Dec-24 02-Fe</td> <td>b-25</td> <td>0% 11</td> <td></td> <td>Construction of Road W</td> <td>orks (4929 m2)</td> <td></td> <td></td> <td></td>	222		🔲 WS4A-190	Construction of Road Works (4929 m2)	60 0	24-Nov-24	22-Jan-25	05-Dec-24 02-Fe	b-25	0% 11												Construction of Road W	orks (4929 m2)			
No. No. <th>223</th> <td></td> <td>WS4A-216</td> <td>SiteFormation</td> <td>55 0</td> <td>22-Feb-25</td> <td>17-Apr-25</td> <td>05-Mar-25 28-Ap</td> <td>r-25</td> <td>0% 11</td> <td></td> <td>Site Formation</td> <td></td> <td></td> <td></td>	223		WS4A-216	SiteFormation	55 0	22-Feb-25	17-Apr-25	05-Mar-25 28-Ap	r-25	0% 11													Site Formation			
B B	224		YL2021-10-MP	IC.S44AB3 Substation and Other Site Works	473 0	22-Nov-23	08-Mar-25	11-Oct-24 28-Ap	r-25	0% 51							*				: : :	08-Ma	r 25, YL2021-10-MPU/C S4.4/	B.3 Substation and	d Other Sile Work	s
Image: State Image: State<	225		WS4A-200	Construction of CLP Standalone Substation	200 0	15 Aug-24*	02-Mar-25	11-Oct-24 28-Ap	r-25	0% 5/												Construt	tion of CLIP Standalone Subst	ion		
N Norward data training Norward datat training <th< th=""><th>220</th><th></th><th>WS44-210</th><th>Construction of Rentise Collection Pront</th><th>120 0</th><th>45 Aug 24</th><th>20-1VRF-24</th><th>30+Dec-24 20+Ap</th><th>-25</th><th>0% 404</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>Construct</th><th>ion or Refuse Callection Po</th><th>n .</th><th></th><th>def Carefo Testa and Caluma Dia</th><th></th><th></th><th></th><th></th></th<>	220		WS44-210	Construction of Rentise Collection Pront	120 0	45 Aug 24	20-1VRF-24	30+Dec-24 20+Ap	-25	0% 404								Construct	ion or Refuse Callection Po	n .		def Carefo Testa and Caluma Dia				
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B B	230	THE Y	L2021-10-MPU.C	S5.1 General Works	113 219	03-Mar-23A	23-Oct-23	31-Oct-23 28-Ap	r-26 03-Mar-23	86,55% 919						23-00	ct-23, YL2021-10 MPUC S5.1 (General Works								1
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0 0	232		WS5-020	Demolition of Existing Structure (2500 m2)	17 2	03-Mar-23A	04-Mar-23A	28-Apr-26 28-Ap	r-26 03-Mar-23 04-Mar-	23 100%					- Demolit	ition of Existing Structure	e (2500 m2)									1
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20 a 20 0 2000<	234		WS5-040	Environmental GIW orks (26 nos.)	60 71	07-Mar-23A	17-May-23A	31-Oct-23 31-Oc	±23 07-Mar-23 17-May	23 100%					Environment	tal GIWorks (26 nbs.)										
Bit Bit <th>235</th> <td></td> <td>WS5-101</td> <td>Tree Felling (157 nr)</td> <td>5 93</td> <td>20-May-23A</td> <td>21-Aug-23A</td> <td>15 Aug-24 15 Au</td> <td>g-24 20-May-23 21-Aug-</td> <td>23 100%</td> <td></td> <td></td> <td></td> <td></td> <td>- Tree F</td> <td>elling (157 nr)</td> <td><u>ii.</u></td> <td></td> <td></td> <td></td> <td>10 MDI IC SE 2 Designed and Other)</td> <td>An Works</td> <td></td> <td></td> <td></td> <td></td>	235		WS5-101	Tree Felling (157 nr)	5 93	20-May-23A	21-Aug-23A	15 Aug-24 15 Au	g-24 20-May-23 21-Aug-	23 100%					- Tree F	elling (157 nr)	<u>ii.</u>				10 MDI IC SE 2 Designed and Other)	An Works				
1 0	236		WS5.045	S53 Drainage and Other Site Works Reaction of Artifical Hard Material and Canadal Evenuation	290 0	08-Oct-23	23-Ju-24 26 Dec 23	31-Oct-23 15-Au 31 Oct-23 18 Ja	g-24	0% 23							Devoluing of A	rifical Librai Matarial and Ca	and Europetick	¥ 23-301-24, 112021	- IOHW- CICASUS Drainage and Other	SHE VVUINS				
2 Window Contactor/Description(0) 0 <t< td=""><th>238</th><td></td><td>WS5-050</td><td>Construction of Drainane System (Catchoit) (10 nos.)</td><td>120 0</td><td>08-Oct-23</td><td>04-Feb-24</td><td>31-Oct-23 27-Fe</td><td>h-24</td><td>0% 23</td><td></td><td></td><td></td><td></td><td></td><td></td><td>Breaking of A</td><td>Construction of Drainane S</td><td>ustam (Catchnit) (10 nns)</td><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td></t<>	238		WS5-050	Construction of Drainane System (Catchoit) (10 nos.)	120 0	08-Oct-23	04-Feb-24	31-Oct-23 27-Fe	h-24	0% 23							Breaking of A	Construction of Drainane S	ustam (Catchnit) (10 nns)							1
m m	239		WS5-090	Construction of Drainage System (1000 m)	100 0	05-Feb-24	14-Mav-24	28-Feb-24 06-Ju	n-24	0% 23								construction printige o	Construction of E	: : Drainape Siystem (1000 m)						
Matrix	240		WS5-100	Deposition and Compaction of Fill Material	70 0	15-May-24	23-Jul-24	07-Jun-24 15-Au	g-24	0% 23										Deposition and Co	ompaction of Fill Material					
add w Wesdee	241	🚽 YL20	021-10-MPU.C.	6 Section 6 - Comprises all Works within Portion 5, 5A	125 266	22-Aug-22A	14-May-23A	28-Apr-26 28-Ap	r-26 22-Aug-22 14-May-	23 100%		1 1 1		▼ 14 May 2	3A, YL2021-10 MPU.C.S6 Sectio	on 6 - Comprises all Wo	arks within Portion 5, 5A	1 1	1 1					1		1 1
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245 9	244	🗖 🗖 🖉	VS6-020	Construction of Temporary Access Road	110 119	16-Jan-23A	14-May-23A	28-Apr-26 28-Ap	r-26 16-Jan-23 14-May-	23 100%		_		Construc	ion of Temporary Access Road											1
24 W5800 C602 - Emproprised Pode Pide Pilling on Reparts (Pide Pilling on Reparts (Pi	245	🗆 W	VS6-030	CE001 - Tree survey at HyD Slope	9 9	20-Oct-22A	28-Oct-22A	28-Apr-26 28-Ap	r-26 20-Oct-22 28-Oct	22 100%			👄 CE001;-Tree survey at HyD SI	Slope												. .
2/4/1 0 0.00000000000000000000000000000000000	246	W	VS6-031	CE002 - Emergency Road Pothole Filling and Reparing	17 17	20-Oct-22A	05-Nov-22A	28-Apr-26 28-Ap	r-26 20-Oct-22 05-Nov-	22 100%			- CE002 - Emergency Road	Pothole Filling and Reparing												
all with bit is and	247		VS6-032	CE003 - CCTV Inspection and Cleaning of U-channel at Slope Feature No. 56	17 17	15-Oct-22A	31-Oct-22A	28-Apr-26 28-Ap	r-26 15-Oct-22 31-Oct-	22 100%			- CE003 - CCTV Inspection	iand Cleaning of U-chainnel a	Slope Feature No. 56											
Arrow WS7-00 Denking / Arrow Compose Ormage Ormage <t< td=""><th>248</th><td></td><td>024 40 MDL C</td><td>CEUCO - Tree Removal Works at HyD Stope below Yuen Long Highway</td><td>8 8</td><td>25 Nov-22A</td><td>10 Aug 22 A</td><td>28-Apr-26 28-Ap</td><td>r-20 261N0/-22 05-Dec-</td><td>22 100%</td><td></td><td></td><td>CE006: Tree Rennoval Works</td><td>s at HyD Slope below Youn L</td><td>ngHighway 19-Aun</td><td>-23A YL2021-10-MPU</td><td>LC.S7 Section 7 - Comprises a</td><td>Works within Portion 5B</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	248		024 40 MDL C	CEUCO - Tree Removal Works at HyD Stope below Yuen Long Highway	8 8	25 Nov-22A	10 Aug 22 A	28-Apr-26 28-Ap	r-20 261N0/-22 05-Dec-	22 100%			CE006: Tree Rennoval Works	s at HyD Slope below Youn L	ngHighway 19-Aun	-23A YL2021-10-MPU	LC.S7 Section 7 - Comprises a	Works within Portion 5B								
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Control Control <t< th=""><th>250</th><th></th><th>/\$7-010</th><th>Breaking of Artificial Hard Material and Gernal Evolution</th><th>85 02</th><th>10.May 23A</th><th>19_0 m23A</th><th>28-Anc-26 28-An</th><th>r_26 10_May-23 10_Aug</th><th>23 100%</th><th></th><th></th><th></th><th> De</th><th>Develop</th><th>m of Artificial Librard & Arti-</th><th>arial and Canad Execution</th><th></th><th>· • · · · · · · · · · · · · · · · · · ·</th><th></th><th></th><th>· · · · · · · · · · · · · · · · · · ·</th><th></th><th></th><th></th><th>++</th></t<>	250		/\$7-010	Breaking of Artificial Hard Material and Gernal Evolution	85 02	10.May 23A	19_0 m23A	28-Anc-26 28-An	r_26 10_May-23 10_Aug	23 100%				De	Develop	m of Artificial Librard & Arti-	arial and Canad Execution		· • · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·				++
Image: WS7-12 Site Cerrance 1 0 6.54xp-23 19Aug-23 254 pr-25 254 pr-25 <td< td=""><th>252</th><td>- w</td><td>VS7-11</td><td>Tree Felling (63 nos)</td><td>3 94</td><td>05-May-23A</td><td>07-Aug-23A</td><td>28-Apr-26 28-An</td><td>r-26 05-May-23 (17-Aun-</td><td>23 100%</td><td></td><td></td><td></td><td></td><td>Digakir</td><td>Tree Felling (63 Porc)</td><td>ana ayu Gorra Eyualabuti</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	252	- w	VS7-11	Tree Felling (63 nos)	3 94	05-May-23A	07-Aug-23A	28-Apr-26 28-An	r-26 05-May-23 (17-Aun-	23 100%					Digakir	Tree Felling (63 Porc)	ana ayu Gorra Eyualabuti									
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255 35 35 405 29Aug-24 28Aug-25 19Aug-24 28Aug-25 41599 0 256 35 19Aug-24 28Aug-25 29Aug-25 29Aug-25 <th< td=""><th>254</th><td></td><td>021-10-MPU.C.</td><td>58 Section 8 - Preservation and Protection of Existing Trees</td><td>974 405</td><td>29-Aug-22A</td><td>28-Apr-25</td><td>19-Oct-23 28-Ap</td><td>r-25 29-Aug-22</td><td>41.58% 0</td><td></td><td></td><td></td><td></td><td></td><td>0.0000000</td><td></td><td></td><td></td><td></td><td></td><td></td><td>28-Apr-25, YL202</td><td>1-10 MPUCSB S</td><td>ection 8- Preserv</td><td>ation and Prote</td></th<>	254		021-10-MPU.C.	58 Section 8 - Preservation and Protection of Existing Trees	974 405	29-Aug-22A	28-Apr-25	19-Oct-23 28-Ap	r-25 29-Aug-22	41.58% 0						0.0000000							28-Apr-25, YL202	1-10 MPUCSB S	ection 8- Preserv	ation and Prote
258 10 12021-10-MPULC, 59 Section 9 - Landscape Softworks 574 405 28Apr28 29Apr28	255	🔲 W	VS8-010	Preservation and Protection of Existing Trees	974 405	29-Aug-22A	28-Apr-25	19-Oct-23 28-Ap	r-25 29 Aug-22	41.58% 0			<u> </u>										Preservation and	rolection of Existr	g Trees	1
287 300 Landscape Softworks 974 405 28Aug-28 28Au	256	5 YL20	021-10-MPU.C.	S9 Section 9 - Landscape Softworks	974 405	29-Aug-22A	28-Apr-25	19-Oct-23 28-Ap	r-25 29-Aug-22	41,58% 0	×	; ; ;	; ; ; ;			: :		; ;			; ; ;		28-Apr-25, YL202	-10 MPUC S9 S	ection 9- Landsca	ape Softworks
Z88 Image: Name and Section 10-Establishment 365 0 29Apr:26 29Apr:	257	💷 W	VS9-010	Landscape Softworks	974 405	29-Aug-22A	28-Apr-25	19-Oct-23 28-Ap	r-25 29-Aug-22	41.58% 0													Landscape Softw	.rks		
259 🗾 📾 WS10-010 Estatishment 365 0 29Apr25 28Apr26 29Apr26 29Apr26 28Apr26 0% 0	258	S YL20	021-10-MPU.C.	S10 Section 10 - Establishment	365 0	29-Apr-25	28-Apr-26	29-Apr-25 28-Ap	r-26	0% 0														-		
	259	🗌 🔲 W	VS10-010	Establishment	365 0	29-Apr-25	28-Apr-26	29-Apr-25 28-Ap	r-26	0% 0	: :			: : :					: : :							1



Remaining Level of Effort	Actual
Actual Level of Effort	Remai
Primary Baseline	Critical

al Work aining Work

al Remaining Work

♦ Milestone • summary -

Contract No. YL/2021/03 - Site Formation and Infrastrcture Works for Yuen Long South First Phase Development - Contract 1 REVISED PROGRAMME (REV. 8) (OCT 2023)

Date	Revision	Checked	Ap
15-Aug-23	Rev.6	WCF	YKC
09-Sep-23	Rev.7	WCF	YKC
08-Oct-23	Rev.8	WCF	YKC



3-month Rolling Construction Programme of Contract 2

				S	ite Fori	mation a	and In	frastru	cture	Works fo	r Yuen	Long South	n First Pha	ase Development – Contrac	:t 2
Activity ID	Activity Name	BL Project Start	BL Project Finish	BL Project S Duration	chedule % Start Complete	Finish	Duration	Remaining / Duration	Activity % Complete F	Variance - BL Project Start Date Proje	Variance - BL To ct Finish Date	otal Float Predecessors	Successors	January	February
YL202104 Site Fo	I rmation and Infrastructure Works for YL South First Phase Development - Contrac	t 2												07 14 21 28 0	4 11 18 25
Contract Data	(CDP1)														
Access Date AD-1070	Access to Portion 5A (8-Aug-23)	25-Nov-23		0	100% 8-Feb	o-24*	0	0	0%	-75	-75	-184 CD-1020	CD-1250, S5-220		8-Feb-24*
AD-1100	Access to Portion 6A (8-Aug-23)	25-Nov-23		0	100% 8-Feb	o-24*	0	0	0%	-75	-75	-184 CD-1020	CD-1260, S6-201		◆ 8-Feb-24*
AD-1210	Access to Portion 10A (8-Aug-23)	25-Nov-23		0	100% 8-Feb	o-24*	0	0	0%	-75	-75	-184 CD-1020	CD-1300, KD5-T1	-	8-Feb-24*
AD-1220	Access to Portion 10B (8-Aug-23)	25-Nov-23		0	100% 8-Feb	>-24*	0	0	0%	-75	-75	-184 CD-1020	CD-1300, KD5-T1	-	8-Feb-24*
Seasonal Cons	straints	23-1107-23		0	100 /0 0-1 62	7-24	Ū	0	078	-15	-15	-104 00-1020	00-1000, 100-11		010024
SC-1230	2nd dry season end		30-Apr-24	0	0%	30-Apr-24	I* 0	0	0%	0	0	0 KD1-R-1010, TT	CD-1030, S10-DC		-
Preliminaries/G	Seneral Submission														
P-1350	CAR / RAP (if any) - Preparation and Submission	25-Nov-23	8-Dec-23	12	100% 8-Feb	0-24 24-Feb-24	4 12	12	0%	-61	-61	-77 CD-1020	P-1360		24-Feb-
P-1360	CAR/ RAP (if any) - Review and Approval	9-Dec-23	2-Jan-24	18	100% 26-Fe	eb-24 16-Mar-24	4 18	18	0%	-61	-61	-77 P-1350	S5-2060, S7-1140		
P-1510.DVP01	tion Plan (AAP) Archaeological Action Plan (AAP) - Review and Approval of AAP by AMO	25-Oct-23	20-Apr-24	144	61.11% 25-0	ct-23 20-Apr-24	144	56	15%	0	0	-7 P-1500.DVP01	S5-A-1020		
Interface Managem	ient Plan														
P-1520.DVP01	Interface Management Plan - Preparation and Submission	25-Nov-23	11-Dec-23	14	100% 8-Feb	0-24 27-Feb-24	4 14 1 18	14	0%	-61	-61	-67 CD-1020	P-1530.DVP01	_	
Construction V	Vorks	12-060-23	4-0011-24	10	100 /0 20116	13-14d1-2-	• 10	10	078	-01	-01	-07 1-1320.041 01	00-2000		
KD1 Section 8	[Portions 11 and 11A] - Road L1A and L1B														
DD-1030	Design - Approval of Temp Decking - YL bypass at Portion 11	2-Jun-23	25-Nov-23	147	100% 2-Jun	-23 A 29-Feb-24	4 18	16	90%	0	-76	0 DD-1020	KD1-D-1010		ſ
Submission MS-1030	MS - Approval of Temp Decking - VI hypass at Portion 11	14- Jul-23	25-Nov-23	113	100% 14- Iu	IL 23 & 29. Eeh. 24	4 18	16	90%	0	-76	0 MS-1020	KD1-D-1010		
TTA Scheme/XP		14 001 20	20 1107 20	TIO	10070 14 00	120 1 20 1 00 2	10	10	3070	ů	10	0 110 1020			
KD1-KU-1030	TTA - One way gyratory (KHIR-013a) - one way one lane scheme	2-Feb-24		0	100% 2-Apr	-24	0	0	0%	-45	-45	47 KD1-D-1020, P-1	KD1-2010, TTA-K	KD1-KU-1030 💊	
Construction Work:	s											-			
Temp Decking TE	002														
KD1-D-1030.0	Footing / Abutment for TD02 at Portion 11	2-Dec-23	2-Jan-24	24	100% 1-Nov	v-23 A 8-Feb-24	24	1	80%	27	-32	47 KD1-D-1020.DVF	KD1-2010, KD1-K	_	= 8-Feb-24
KD1-D-1020	Decking for TD02 at Portion 11 (Working Deck)	1-1400-23	1-1 60-24	0	0% 2-Feb	0-24 A 28-Mar-24	4 00 4 41	39	0%	0	-40	47 KD1-D-1030.DVF	KD1-KU-1030	KD1-TD02-1030.C01, 2-Feb-24 A	
Ramp WD6 at Po		12.4.04		10											
KD1-R-1010 Box Culvert BC02	Removal of the Ramp WD6 at Nullah at Portion 11 Eastand EC02A	1/-Apr-24	30-Apr-24	12	0% 17-Ap	or-24 30-Apr-24	12	12	0%	0	0	0 KD1-1330.RPA04	KD1-2010, SC-12		
BC02A (1st Wets	eason)& severconstruction	8 Jan 24	13 Jan 24	6	100% 21 D	oo 21 5 Jan 24	A 6	0	100%	12	7	P 1400 D\/P01 k	KD1 1160 KD1 1	5. Jan. 21 A	
KD1-1130	Lay dia. 450 sewage pipeline for temp. diversion from FMH1002 to FMH1004	21-Dec-23	6-Jan-24	12	100% 21-De	an-24 18-Jan-24	4 0 I 12	0	100 %	-16	-10	KD1-1130, KD1-1	KD1-1180, KD1-1	18-Jan-24 A	
KD1-1170	Construction of FMH1004 Bottom Part	22-Jan-24	3-Feb-24	12	100% 9-Jan	19-Jan-24	4 6	0	100%	11	13	KD1-1130, KD1-1	KD1-1140, KD1-1	→	in 24 A
KD1-1140.C0	1 Construction of FMH1001 Bottom Part			0	0% 8-Jan	1-24 A 29-Jan-24	4 5	0	100%			KD1-1140	KD1-1160	<u>29-Jan-24 A</u>	
KD1-1180	Place 500mm thick Grade 200 size aggregate layer for BC02A	5-Feb-24	14-Feb-24	6	50% 5-Feb	0-24 A 14-Feb-24	4 6	3	0%	0	0	8 MS-2020, KD1-1	KD1-1190, KD1-1	KD1-1180, 5-Feb-24 A	■ .14-Feb-24, ■
KD1-1100	Construct 3- cell BC02A to 500mm below strut layer S2	15-Feb-24	28-Feb-24	12	0% 22-Fe	eb-24 6-Mar-24	+ 0 12	12	0%	-24	-24	8 KD1-1180, KD1-1	KD1-1130	KD1-119	0 22-Feb-24
KD1-1200	Construction of FMH1001, FMH1002, FMH1004 to 500mm below Strut Layer S2	29-Feb-24	6-Mar-24	6	0% 30-Ja	an-24 15-Mar-24	4 6	29	15%	23	-8	0 KD1-1170	KD1-1230	KD1-1200, 30-Jan-24 A	
KD1-1230	Backfill around BC02A and new FMH to 500mm below Strut Layer S2	14-Mar-24	20-Mar-24	6	0% 16-M	ar-24 22-Mar-24	4 6	6	0%	-2	-2	0 KD1-1200, KD1-1	KD1-1240		
KD1-1240	Backfill & Removal Strut Layer S2	21-Mar-24	8-Apr-24	12	0% 23-M	ar-24 10-Apr-24	12	12	0%	-2	-2	0 KD1-1230	KD1-1250	_	
KD1-1250	Construction of FMH1001, FMH1002, FMH1004 to 500mm to ground level	23-Apr-24	4-May-24	12	0% 11-A	or-24 7-May-24	10	12	0%	-2	-2	0 KD1-1240	KD1-1200		
BC02 East & BC0	12A (2nd dry season)		,						-			10 00 1010			
KD1-1310	Demolition of existing diversion wall Excevation of nullab base for BC02 East (1st cell)	22-Nov-23 16- Jan-24	21-Dec-23	26	100% 22-No 100% 16-Ja	0V-2: 8-Feb-24	24	1	95%	0	-39	10 SC-1210 9 KD1-1310	KD1-1320, KD1-1 KD1-1320	16-Jan-24 A	- 8 - Feb-24 8 - Feb-24
KD1-1320	Installation of sheet piling for BC02 East (1st cell)	22-Dec-23	15-Jan-24	18	100% 9-Feb	o-24 9-Mar-24	23	23	0%	-39	-44	8 KD1-1310, KD-R-	KD1-1330.RPA04		>
KD1-1330.RP	Construction of for BC02 East (1st cell) and temp. water retaining wall	30-Jan-24	16-Apr-24	60	13.33% 16-Ja	an-24 16-Apr-24	l 60	52	0%	12	0	0 KD1-1320	KD1-R-1010	. 16-Jan-24 A [™]	
KD1-D-1010	en Long Floodway Bypass Cut Down Existing Floodwall 1m below ground	21-May-24	3-Jun-24	12	0% 1-Ma	r-24 14-Mar-24	4 12	12	0%	63	63	0 KD1-D-1000, MS	KD1-D-1010.RP.		KD1-D-1010, 1-Mar-24
KD1-D-1010.F	Construction of the decking - YL bypass at Portion 11	4-Jun-24	3-Jul-24	24	0% 15-M	ar-24 16-Apr-24	24	24	0%	63	63	0 KD1-D-1010	AW-1060, KD1-D-		KD1-D
—— Section 8 Method statement	[Portions 11 and 11A] - Road L1A and L1B														
<u>5690</u> MS-8020	MS - Method statement for Noise Barrier NB12	25 Nov-23	9- Jan-24	36	100% 8-Eek	-24 23-Mar-2/	1 36	36	0%	-61	-61	41 DD-8030	MS-8030 MS-807		
MS-8020.DVP	02 MS - Method statement for Noise Barrier NB12 and NB15	10-Jan-24	30-Jan-24	18	100% 8-FeL	ar-24 18-Apr-24	+ J0 18	18	0%	-61	-61	41 MS-8020, DD-803	MS-8030.DVP02,	4	
MS-8030.DVP	02 MS - Approval of Noise Barrier NB13 and NB15	31-Jan-24	23-Feb-24	18	38.89% 19-Ap	or-24 10-May-2	4 18	18	0%	-61	-61	41 MS-8020.DVP02	PO-8060.DVP01,	MS-8030.DVP02, 19-Apr-24	
MS-8030	MS - Approval Method statement for Noise Barrier NB12	10-Jan-24	23-Feb-24	36	69.44% 25-M	ar-24 10-May-2	4 36	36	0%	-61	-61	69 MS-8020, DD-80	S8-4230, PO-806	4	
MS-8000	MS - Method statement for Soldier pile	25-Nov-23	15-Dec-23	18	100% 16-Ja	an-24 6-Feb-24	A 18	0	100%	-41	-42	DD-8000, DD-80	MS-8010, Sub-80		Feb-24 A
MS-8010	MS - Approval of Method statement for Soldier pile	16-Dec-23	30-Jan-24	36	100% 7-Feb	o-24 A 4-Mar-24	36	19	0%	-42	-26	42 MS-8000	S8-3150, S8-3200	La	
MS-8050.DVP	02 MS - Approval of MS for Precast Beam Installation for Decking DC02	10-Jan-24	23-Feb-24	36	69.44% 3-Jun	16-Jul-24	36	36	0%	-115	-115	87 MS-8040.DVP02	S8-2040-1, S8-20	.4	
Sub-8040	Subletting - Precast Beam Installation for Decking DC02	24-Feb-24	10-Apr-24	36	0% 8-Feb	o-24 23-Mar-24	4 36	36	0%	11	11	15 CD-1020	PO-8030.DVP01,	Sub-8040, 8-Feb-24	
Sub-1000	Subletting - RW01	9-Dec-23	23-Jan-24	36	100% 8-Sep	o-23 A 18-Jun-24	4 36	1	20%	76	-116	76 MS-1000	KD1-RW1-1010		
Procurement	Subletting - RWUZ	17-Feb-24	2-Apr-24	36	0% 27-Se	ep-2: 21-Aug-24	4 30	1	0%	114	-116	100 MS-8050	PO-8020, S8-1050]
	Procurement - Noise Barrier	10lan-24	2-May-24	90	27 78% 10-Ja	n-24 2-May-24	90	65	0%	0	0	76 Sub-8010 DD-80	PO-8060 DVP01	A	
Construction Work	s	TO GUILET	2 110 9 2 1		2	2.00921	00		0,0		•	10 000 0010, 00 00	1000000		
Preliminary Works Portion 11 - Tree,	site formation & GI												_		
S8-1040	Portion 11 (GI) - Ground Investigation (11no; 10d/no, 2wf)	7-Jul-23	25-Nov-23	119	100% 7-Jul-	-23 A 4-Mar-24	60	19	21%	0	-79	0 S8-1030, KD2D-2	S8-2010, S8-4210		
CLP		0.1.00	05 N - 22	400	4000/ 0.1	00 4 0 5 1 5 1	00		0.001			17 1/04 1000 115 -			9 Eab 24
KD1-1000-1 Retaining Wall (RW	ULP divert the overhead cable at road L1A & 1B 01,RW02,RW03,RW06 & RW07)	3-Jul-23	25-NOV-23	123	100% 3-Jul-	-23 A 8-Feb-24	60	1	90%	0	-61	-47 KD1-1000, MS-S	KD-K-1000		o-F60-24
Portion 11 - Retai	ning Wall 01 Complete Road Set Back near BC01 (KD5)		15-Dec-22	0	100%	8-Eab-24	0	0	۵%	-44	_44	172 KD5-1010	KD1-RW1-1000		● 8-Feb-24
KD1-RW1-100	IO ELS for RW01	24-Jan-24	6-Feb-24	12	100% 31-Ju	II-24 13-Aug-24	4 12	12	0%	-151	-151	41 KD1-RW1-1000,	KD1-RW1-1020	KD1-RW1-1010, 31-Jul-24	
KD1-RW1-102	20 Demolish existing slope for RW01	7-Feb-24	23-Feb-24	12	8.33% 14-AL	ug-24 27-Aug-24	4 12	12	0%	-151	-151	41 KD1-RW1-1010	KD1-RW1-1030	KD1-RW1-1020, 14-Aug-24	
KD1-RW1-103	0 G200 Rockfill and 75mm blinding for RW01	24-Feb-24	1-Mar-24	6	0% 28-AL	ug-24 3-Sep-24	6	6	0%	-151	-151	41 KD1-RW1-1020	KD1-RW1-1040	-	KD1-RW1-1030, 28-Aug-24
KD1-KW1-104		2-Mar-24	2-Apr-24	24	0% 4-Sep	J-24 J-UCE-24	24	24	U%	-101	-151	41 ND1-KW1-1030	1050.D		LUI-RWI-1040, 4-Sep-2
	Actual Work Project Base	Data Date: 8-	Feb-24										YI /202	1/04	<u> </u>
	Remaining Work	Project Start:	8 Dec 2	2022								.			30-N
		Project End: 2	26-Apr-	29								Three N	ionths Rolli	ng Programme	15-J
		Page 1 of 6													15-F



		Site Formation a	nd Infi	rastruc	ture	Works for Y	Yuen	Long South	First Pha	ase Development – Contrac	:t 2
tivity ID Activity Name	BL Project BL Project Start Finish	BL Project Schedule % Start Finish Duration Complete	Duration	Remaining Ac Duration Co	ctivity % omplete P	Variance - BL Varian Project Start Date Project Fini	nce - BL To ish Date	tal Float Predecessors	Successors	January	February
KD1-RW1-105 Pavement Works and Road Reinstatement RW01	3-Apr-24 2-May-24	24 0% 4-Oct-24 1-Nov-24	24	24	0%	-151	-151	41 KD1-RW1-1040	S8-1050	07 14 21 28 0	4 11 18 2
Decking DC02	20 Aug 22 0 Esh 24	404 00.05% 20 Aug 05 0 Mag 04	50	40	459/		47	0 00 4000	00.0000.0.00.00		
S8-2030-1 Predrait of Decking DC02 S8-2030-1.RPE Preparation for predrilling test report and submission	9-Feb-24 4-Mar-24	134 99.25% 30-Aug-2: 2-Mai-24	18	18	0%	0	-17	0 \$8-2030-1	S8-2030-2, S8-20 S8-2030-2, S8-20	S8-2030-1.RPB01, 9-Feb-3	-
Soldier Pile Wall at Road L1A											
S8-3140 Carry out LAM grouting on the retaining side from 2 meter below existing ground to +7.00mPD Sobler Pile WallatRoad LB	14-Nov-23 4-Mar-24	90 78.89% 14-Nov-2: 4-Mar-24	90	19	3%	0	0	30 S8-3120, DD-800	S8-3150, S8-314(
S8-3120.RPA04 Erect temporary working platform for Road L1B	26-Jan-24 12-Apr-24	60 18.33% 26-Jan-24 12-Apr-24	60	49	5%	0	0	0 S8-3120, S8-312	S8-3140.RPA04	S8-3120.RPA04, 26-Jan-24 A	
Subletting											
S12-1010 Subletting - S12 - C9 process	22-Feb-23 18-Dec-23	246 100% 22-Feb-23 8-Mar-24	60	23	25%	0	-64	-21 S12-1000	S12-2020		
S12-1010.RPA04 TTA - Scheme TMLG Coordination/Meeting/Approval	8-Aug-23 28-Dec-23	118 100% 8-Aug-23 A 8-Feb-24	36	1	35%	0	-35	-5 S12-1000.RPA04	S12-1020.RPA04		8-Feb-24
S12-1020.RPA04 TTA - Roadwork Advise (RA)	29-Dec-23 5-Jan-24	6 100% 9-Feb-24 19-Feb-24	6	6	0%	-35	-35	-5 S12-1010.RPA04	S12-2020		19-Feb-24
Preliminary Works											
S12-2000 Tree Survey, Felling and preservation at Portion 15 Stor Revence and Stin Formation Works	29-Jun-23 25-Nov-23	124 100% 29-Jun-23 8-Feb-24	60	1	100%	0	-62	0 S12-1020, CD-10	S12-2010		8-Feb-24
S12-2010 Site Clearance & site formation after access Portion 15	7-Oct-23 25-Nov-23	42 100% 7-Oct-23 A 9-Feb-24	54	1	35%	0	-62	0 S12-2000, S12-1	S12-2020		9-Feb-24
Section 7 [Portions 9, 9A and 17] - Box Culvert BC03, Common Utility Tunnel Design											
E&M Design Submission SLIS7-1010 B02 Design and Submission - F&M CLIT (1st Round)	13-Nov-23 8-Feh-24	73 98.63% 13-Nov-2: 8-Feb-24	60	1	100%	0	0	5 SUS7-1000 B02	SUS7-1020 B02		8-Feb-24
SUS7-1020.B02 Review and Comment of Design - E&M CUT (1st Round)	9-Feb-24 26-Apr-24	60 0% 9-Feb-24 26-Apr-24	60	60	0%	0	0	5 SUS7-1010.B02	SUS7-1030.B02	SUS7-1020.B02, 9-Feb-2	4
Construction Works Proliminary Works											
Land Contamination	25 Oct 22 20 Dec 22	55 100% 25 Oct 22 2 Mar 24	10	10	0%	0	51	11 1 007 1020	1.007 1040 .07 6		
LCS7-1040 Approval of CAP & RAP	30-Dec-23 14-Feb-24	36 91.67% 4-Mar-24 18-Apr-24	36	36	0%	-51	-51	11 LCS7-1020	S7-1140, S7-01		
S7-1140 Decontamination at Portion 9A	15-Feb-24 12-Mar-24	23 0% 19-Apr-24 17-May-24	23	23	0%	-51	-51	11 LCS7-1040, P-13	S7-1200	S7-11	40, 19-Apr-24
Tree TRS7-1030 Remaining Tree Felling and preservation at Portion 17	8-Jun-23 28-Mar-24	242 83.47% 8-Jun-23 A 28-Mar-24	48	40	0%	0	0	11 TRS7-1020	S7-2010 S7-1390		
Box Culvert BC03 (CHA0 to CHA330)				10			-	11 1107 1020			
S7-1200 Mobilization for BC03, CHA.0 to CHA.330	2-Apr-24 9-Apr-24	6 0% 18-May-24 24-May-24	6	6	0%	-37	-37	11 S7-6840, POS7-1	S7-1210		
S7-1390.DVP01 ELS and Excavation of CUT, Bay 24 to Bay 28	2-Apr-24 30-Apr-24	24 0% 2-Apr-24 30-Apr-24	24	24	0%	0	0	29 S7-1150, TRS7-1	S7-1400.DVP01		
Section 16 [Portions 9B, 9C, 20, 21 & 22] - All works Method Statement											
S16-1030 MS - Submission and approval of all necessary documents incl. MS, material and remain statutor	ry sub 8-Aug-23 27-Dec-23	117 100% 8-Aug-23 A 26-Feb-24	60	13	100%	0	-48	65 S16-1010, S16-1	S16-2020, S16-20		2
KD3 Section 5 [Portions 2B, 5A, 5B] & Section 6 [Portion 6,6A,6B,6C] - Road D1 and D2 Design											
KD3-DD-1010 Design - Approval of the Temp works design for RW & road and Drainage	16-Dec-23 9-Jan-24	18 100% 16-Jan-24 8-Feb-24	18	1	0%	-23	-26	1 KD3-DD-1000	KD3-3050.DVP01		8-Feb-24
Construction Works (KD3)	16-Dec-23 9-Jan-24	18 100% 30-Jan-24 2-Mar-24	10	10	0%	-30	-43	26 KD3-DD-1020	KD3-2000.DVP01		
Temporary Access Road No.2 Section 5 [Portion 5B] Temp Access Road No.2											
KD3-3025.DVI Site clearance and site formation after asbestos removal	21-Nov-23 27-Dec-23	30 100% 21-Nov-22 24-Feb-24	30	12	25%	0	-47	-10 KD3-2010.DVP01	KD3-3030.DVP01		24-F
KD3-SU-3020 Submission of CAR and RAP (Stage 2)	1-Dec-23 30-Dec-23	24 100% 8-Feb-24 9-Mar-24	24	24	0%	-56	-56	-18 KD3-SU-3010, KI	KD3-SU-3030		KD2 2050 DVD01 26 Ech 24
KD3-5030.DVI ELS & Excavation within Portion 36 (remp. Addess 2.2) KD3-SU-3030 Approval of CAR and RAP (Stage 2)	2-Jan-24 15-Feb-24	36 88.89% 11-Mar-24 25-Apr-24	36	36	0%	-56	-56	-18 KD3-SU-3020	KD3-3080.DVP01 KD3-3030.DVP01		KD3-3030.DVI 01, 201100.01
KD3-3030.DVI Decontamination at Portion 5B	16-Feb-24 21-Mar-24	30 0% 26-Apr-24 1-Jun-24	30	30	0%	-56	-56	-18 KD3-SU-3030, KI	KD3-3070.DVP01	KD3-3030.DV	P01, 26-Apr-24
Section 6 [Portion 6,6A,6B&6C] Temp Access Road No.2 KD3-2015 DVI Site dearance and site formation	15. Jul 23 25. Nov-23	112 100% 15. Jul 23 & 24. Feb. 24	30	12	80%	0	-72	-27 KD3-1030 KD3-1	KD3-2020 DVP01		_ 24-Fe
KD3-2020.DVI ELS & Excavation of Lam Tai East Road within Portion 6, 6A, 6B, & 6C	27-Nov-23 24-Jan-24	48 100% 26-Feb-24 25-Apr-24	48	48	0%	-72	-72	-27 KD3-2015.DVP01	KD3-2040.DVP01		
KD3-2040.DVI Drainage of Lam Tai East Road Portion 6, 6A, 6B, & 6C	23-Jan-24 9-Apr-24	60 23.33% 26-Apr-24 9-Jul-24	60	60	0%	-74	-74	-27 KD3-PR-1000, KI	KD3-2050.DVP01	03-2040.DVP01, 26-Apr-24	
Section 5 [Portions 2B, 5A and 5B] - Road D1 and D2 Method Statement											
S5-1030 MS - Submission and approval of all necessary documents incl. MS, material and remain statutor	ry sub 30-Jun-23 25-Nov-23	124 100% 30-Jun-23 8-Feb-24	36	1	25%	0	-61	132 S5-1010, S5-1020	S5-2120		8-Feb-24
S5-1040.DVP01 TTA - Scheme Review, TMLG and RA for DC05	25-Aug-23 25-Nov-23	77 100% 25-Aug-23 14-Mar-24	48	28	25%	0	-88	-93 S5-1030.DVP01	S5-2070		
Construction Works Preliminary Works											
Asbestos S5-2020 Portion 5A & 5B - Asbestos removal Portion 5A & 5B (Stage 2)	8-Dec-23 21-Dec-23	12 100% 6-Oct-23 A 14-Mar-24	12	28	80%	53	-66	-63 S5-AS-1020.RP0	S5-2090		
Ground Investigation									05 0000 0000		-
S5-2220.RP03 Portion 5A & 5B - 1 raffic arrangement, temp. lighting, temp road and site formation Tree	9-Jan-24 21-Mar-24	60 43.33% 9-Feb-24 26-Apr-24	60	60	0%	-27	-27	36 S5-2210.RP03	S5-2230.RP03	7	
S5-2010 Portion 5A & 5B - Tree survey and removal	30-Jun-23 2-Jan-24	153 100% 30-Jun-23 8-Feb-24	60	1	50%	0	-32	-36 S5-1030.DVP01,	S5-2080, S5-2090		8-Feb-24
S5-2210.RP03 Site formation works & site clearance - Part 2 Land decontamination at Portion 5A (Adjacent Lam Tai West Road)	26-Aug-23 8-Jan-24	110 100% 26-Aug-2: 8-Feb-24	60	1	10%	0	-27	-66 S5-2200.RP03, C	S5-2070, S5-2090		8-Feb-24
S5-2040 Portion 5A - Land contamination survey (7 nos. drillholes, 3 days holes, 1 team)	25-Nov-23 1-Dec-23	6 100% 8-Feb-24 17-Feb-24	6	6	0%	-61	-61	-131 P-1340, CD-1020	S5-2050, S5-2040		17-Feb-24
S5-2040.RPA(Submission of CAR and RAP (if any)	2-Dec-23 22-Dec-23	18 100% 19-Feb-24 9-Mar-24	18	18	0%	-61	-61	-131 S5-2040	S5-2041.RPA04	-	-
S5-2041. RPAL Approval of CAR and RAP (If any) S5-2050. Portion 5A - Set up and operation of decontamination facility	23-Dec-23 6-Feb-24 7-Feb-24 8-Mar-24	30 100% 11-Mar-24 25-Apr-24 24 4 17% 26-Apr-24 25-May-24	30	30	0%	-61	-61	-131 S5-2040.RPA04 -131 S5-2040 S5-204	S5-2050 S5-2100 S5-2060	S5-2050, 26-Apr-24	
Demoish existing nullah and construct Decking DC05 & Pipe Bridge within Portion 5A					.,.			,			
S5-2070 ELS and Construction of Temp Decking	9-Jan-24 5-Feb-24	24 100% 15-Mar-24 16-Apr-24	24	24	0%	-54	-54	-93 SC-1210, S5-104	S5-2070.DVP01		
S5-2070.DVPI Divert Traffic	6-Feb-24 15-Feb-24	6 33.33% 17-Apr-24 23-Apr-24	6	6	0%	-54	-54	-93 S5-2070	S5-2140	S5-2070.DVP01, 17-Apr-24	
S5-2090 Portion 5A & 5B - ELS works	9-Jan-24 21-Mar-24	60 43.33% 20-Mar-24 4-Jun-24	60	60	0%	-58	-58	-67 S5-2020, S5-221	S5-2160		
Section 6 [Portions 6, 6A, 6B and 6C] - Lam Tai East Road											
DD-S6-1000.DV Design - Preparation and Submission of New Direction Sign	25-Nov-23 8-Dec-23	12 100% 8-Feb-24 24-Feb-24	12	12	0%	-61	-61	-29 DD-S9-1020.DVF	DD-S6-1010.DVP		24-Fe
DD-S6-1010.DV Design - Review and Approval of New Direction Sign	9-Dec-23 2-Jan-24	18 100% 26-Feb-24 16-Mar-24	18	18	0%	-61	-61	169 DD-S6-1000.DVF	S9-6950.DVP01,		▶
S6-1030 Submission and approval of all necessary documents incl. MS, material and remain statutory sub	omissi 30-Jun-23 25-Nov-23	124 100% 30-Jun-23 8-Feb-24	48	1	25%	0	-61	-60 S6-1010, S6-1020	S6-2010		8-Feb-24
MS-S6-1000.DV MS - Preparation and Submission of New Direction Sign	3-Jan-24 23-Jan-24	18 100% 26-Feb-24 16-Mar-24	18	18	0%	-43	-43	-29 DD-S6-1000.DVF	MS-S6-1010.DVP	I	-
MS-S6-1010.DV MS - Review and Approval of New Direction Sign	24-Jan-24 16-Feb-24	18 72.22% 18-Mar-24 11-Apr-24	18	18	0%	-43	-43	-29 MS-S6-1000.DVF	S9-6950.DVP01,	-S6-1010.DVP01, 18-Mar-24	
SL-S6-1000.DVI Subletting - New Direction Sign	3-Jan-24 16-Feb-24	36 86.11% 26-Feb-24 11-Apr-24	36	36	0%	-43	-43	61 DD-S6-1000.DVF	PO-S6-1010.DVP		
Construction Works Preliminary Works											
Asbestos S6-2010 Portion 6, 6A, 6B & 6C - Asbestos removal and Demolition Works	28-Nov-23 25- Jan-24	48 100% 9-Feb-24 12-Apr-24	48	48	0%	-60	-60	-60 \$6-1030 \$6-200	S6-2020 S6-205/		
Decontamination Works at Portion 6A	201107-20 207001724	100/0 01 00*24 12*Apl*24	÷u		570	-00	-00	00 00-1000, 00-2001	50 2020, 00-20Jl		
Actual Work Project Base)ata Date: 8-Feb-24								VI /202	1/04	
Remaining Work A Milestone P	Project Start: 8 Dec 2	2022							1 L/202	-	30-
	Project End: 26-Apr-2	29						Three M	onths Rollin	ng Programme	15
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		S7-1200, 18-May-24		-			
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tivity ID	Activity Name	BL Project B Start F	BL Project Finish	BL Project S Duration	Chedule % Start Finish Complete	Duration	Remaining Ac Duration Co	tivity % Variar mplete Project St	ice - BL Variai art Date Project Fini	nce - BL Tot ish Date	al Float Predecessors	Successors	January	February	
S6-2010.C01	Portion 6A - Land contamination survey (4 nos. drillholes, 3 days holes, 1 team)		_	0	0% 8-Feb-24 19-Feb-24	7	7	0%			-72 AD-1100	S6-2010.RPB01,	07 14 21 28 04 S6-2010.C01, 8 Feb-24	11 18 19-Feb-2	25
S6-2020.C01	Submission of CAR and RAP (if any)			0	0% 20-Feb-24 11-Mar-24	18	18	0%			-72 S6-2010.C01	S6-2030.C01	S6	-2020.C01, 20-Feb-24	
S6-2030.C01	Approval of CAR and RAP (if any)	26 Jan 24 4	Mar 24	0	0% 12-Mar-24 26-Apr-24	36	36	0%	70	70	-72 S6-2020.C01	S6-2010.RPB01	S6 2010 RDR01 27 Apr 24	-	S6-2
KD6 Section 1	Pertinns 1, 1A, 4 and 7] - Lam Tai East Road	20-Jail-24 4	+-10181-24	30	30.07% 21-Api-24 3-Juli-24	30	30	0%	-12	-12	-72 30-2010, CD-102	KD3-1000, 30-20;	30-20 10.1CF 20 1, 27-Api-24		
Design DDS1-1010.DVF	Design - Approval of Temp. design DC03	20-Oct-23 1	12-Dec-23	45	100% 20-Oct-23 7-Mar-24	18	22	90%	0	-68	70 DDS1-1000.DVP	KD6-3060		1	
Method Statement		20 000 20 1	2 500 25					00/0			10 5501 1000511	1.20 0000			
MSS1-1030.DV Construction Works	MS - Approval of Temp. design DC03	12-Oct-23 4	1-Dec-23	45	100% 12-Oct-23 8-Feb-24	18	1	90%	0	-54	91 MSS1-1020.DVP	KD6-3060		8-Feb-24	
Preliminary Works Tree															
TRKD6-1030	Tree Felling, Preservation at Portion 4 & 7	8-Jun-23 2	25-Nov-23	142	100% 8-Jun-23 A 8-Feb-24	12	1	90%	0	-61	67 TRKD6-1010	KD6-3030		8-Feb-24	
KD6-3020	Modification of Lam Hi Road and Site Formation works at Portion 7	25-Jun-24 1	10-Oct-24	90	0% 27-Dec-23 1-Jun-24	90	90	1.5%	144	108	4 GIKD6-1030	KD6-3030			
Common Utility Tun CUT Bay 1 to 21	relCUTBay 1-23											_			
CUT Bay 1 to 2	Excavation for CLIT hav 1 to 2	13-Nov-23 1	16-Dec-23	30	100% 11-Nov-2: 28-Feb-24	24	15	80%	1	-57	-55 S1-1000 DDKD6	S1-1020 S1-1005			
S1-1050	Backfill and Remove Sheetpile of CUT bay 1 & 2	4-Mar-24 1	16-Mar-24	12	0% 16-May-24 29-May-24	12	10	0%	-57	-57	-13 S1-1020	DVPKD6-2050, K		S1-105	0, 16 M
CUT Bay 3 to 4	Construction for CLIT hav 3 to 4	30. Jan 24 1	16-Apr-24	60	13 33% 16-May-24 26-Jul-24	60	60	0%	-83	.83	-55 S1-1002 DVP01	\$1,1050 DV/P01	S1-1020 DV/P01 16-May-24		
CUT Bay 5 to 6			10 / 10 / 24	00		00		0.0		00	00 01 1002.041 01,	011000.04101	01 1020.0 11 01, 10 may 21		
S1-1004.DVF CUT Bay 7 to 8	Excavation for CUT bay 5 to 6	13-Nov-23 1	14-Mar-24	100	72% 8-Dec-23 A 15-Mar-24	24	29	80%	-22	-1	-15 S1-1003.DVP01	S1-1030			
S1-1005.DVF	Sheetpile for CUT bay 7 & 8	16-Feb-24 2	28-Mar-24	36	0% 29-Feb-24 15-Apr-24	36	36	0%	-11	-11	-13 S1-1003.DVP01,	S1-1006.DVP01,	\$1-1005.DVP	01, 29-Feb-24	
S1-1006.DVF	Excavation for CUT bay 7 to 8	2-Apr-24 3	30-Apr-24	24	0% 16-Apr-24 14-May-24	24	24	0%	-11	-11	-13 S1-1005.DVP01	S1-1040			
Design		42 No. 02		70	00.00% 40 Nov 00 0 Est 04	c0	4	4008/	0	0				9 Eab 24	
SUKD6-1066.BL SUKD6-1070.BC	Review and Comment of Design - E&M CUT (1st Round)	9-Feb-24 2	26-Apr-24	60	96.63% 13-100-22 8-Feb-24 0% 9-Feb-24 26-Apr-24	60	60	0%	0	0	0 SUKD6-1060.B02	SUKD6-1010.B02 SUKD6-1080.B02	SUKD6-1070.B02, 9-Feb-24	0-FEU-24	
Section 2 [F	Portion 2A] - Open Space														
Method Statement S2-1020	Submission and approval of statutory submission TPRP, UU, DC, BH, HH, etc for S2	13-Dec-23 6	6-Apr-24	90	51.11% 13-Dec-23 6-Apr-24	90	43	0%	0	0	30 S2-1000	S2-1030			
TTA Scheme/XP	Schame Prenaration and Submission	25 Aug 23 1	12-Dec-23	01	100% 25. Aug. 23 8-Eeb. 24	90	1	100%	0	.47	30 CD-1020 P-1160	\$2,1020 \$2,2000		8.Feb.24	
Section 3 [F	Portions 8 and 8Aj - Lam Yu Road	23-Aug-23 1	12-D60-23	31	100 /0 20 Aug-20 0-1 60-24	30	1	100 /8	0	-47	30 CD-1020, F-1100	32-1020, 32-2000		01 60-24	
TTA Scheme/XP S3-1020.DVP01	TTA - Scheme TMLG Coordination/Meeting/Approval	8-Aug-23 2	27-Dec-23	117	100% 8-Aug-23 A 23-Mar-24	36	36	25%	0	-71	0 S3-1010.DVP01	S3-1030.DVP01			
S3-1030.DVP01	TTA - Roadwork Advise (RA)	28-Dec-23 4	4-Jan-24	6	100% 25-Mar-24 3-Apr-24	6	6	0%	-71	-71	0 S3-1020.DVP01	S3-1050.RP03, S			
S3-2030	Portion 8,8A - Implementation of TTA	5-Jan-24 2	25-Jan-24	18	100% 5-Apr-24 25-Apr-24	18	18	0%	-71	-71	0 S3-1030.DVP01	S3-3010, S3-1050			
Preliminary Works															
S3-1050.RP03	Portion 8,8A - Tree Survey and Removal-Part 2	26-Jan-24 4	4-Mar-24	30	36.67% 26-Apr-24 1-Jun-24	30	30	0%	-71	-71	0 S3-1040, S3-103	S3-2090	S3-1050.RP03, 26-Apr-24		
Asbestos S3-2020	Portion 8.8A - Asbestos survey, building demolition, removal and site clearance	26-Jan-24 8	8-Feb-24	12	91.67% 23-Mar-23 30-Jun-23	12	0	100%	251	184	S3-1040, S3-206	\$3-2040.RP03		30-Jun-23 A	
S3-2040.RP03	Portion 8,8A - Abatement plan	9-Feb-24 1	18-Mar-24	30	0% 3-Jul-23 A 17-Aug-23	30	0	100%	184	174	S3-2020	S3-2070			
S3-2070	Portion 8,8A - Asbestos removal	19-Mar-24 1	19-Apr-24	24	0% 6-Dec-23 A 12-Dec-23	24	0	100%	83	101	S3-2060, S3-204	S3-2090, S3-2090		-	
Design	Pomons 18 and 19 - NU Ko. and KH Ko.														
ELS Design DC06 DD-2110	Design - Preparation and Submission of DC06 ELS design	3-Jan-24 1	16-Jan-24	12	100% 8-Feb-24 24-Feb-24	12	12	0%	-31	-31	0 KD4-1000, SU-KI	DD-2120, DD-212			24-Feb
DD-2120	Design - Review and Approval of DC06 ELS Design	17-Jan-24 6	6-Feb-24	18	100% 26-Feb-24 16-Mar-24	18	18	0%	-31	-31	155 DD-2110	KD4-6640	120, 26-Feb-24	-	-
ELS Design DC07 DD-2121	Design - Preparation and Submission of DC07 ELS Design	17-Jan-24 3	30-Jan-24	12	100% 8-Feb-24 24-Feb-24	12	12	0%	-19	-19	0 DD-2110	DD-2122, MS-207	2121, 8-Feb-24		24-Feb
DD-2122	Design - Review and Approval of DC07 ELS Design	31-Jan-24 2	23-Feb-24	18	38.89% 26-Feb-24 16-Mar-24	18	18	0%	-19	-19	41 DD-2121	KD4-3220, MS-21	D-2122, 26-Feb-24	I	~
Decking DC07 DD-2090	Design - Preparation and Submission of Decking DC07 Precast Beam	25-Nov-23 8	3-Dec-23	12	100% 18-Mar-24 3-Apr-24	12	12	0%	-91	-91	515 DD-2122	DD-2100, DD-2070			
DD-2100	Design - Review and Approval of Decking DC07 Precast Beam	9-Dec-23 2	2-Jan-24	18	100% 5-Apr-24 25-Apr-24	18	18	0%	-91	-91	515 DD-2090	KD4-6140			
Decking DC06 DD-2070	Design - Preparation and Submission of Decking DC06 Precast Beam	25-Nov-23 8	3-Dec-23	12	100% 18-Mar-24 3-Apr-24	12	12	0%	-91	-91	515 KD4-1000, DD-20	DD-2080			
DD-2080	Design - Review and Approval of Decking DC06 Precast Beam	9-Dec-23 2	2-Jan-24	18	100% 5-Apr-24 25-Apr-24	18	18	0%	-91	-91	515 DD-2070	KD4-6810			
Method Statement Decking DC06															
MS-2050	MS - Preparation and Submission for DC06 ELS	20-Sep-23 4	4-Oct-23	11	100% 26-Feb-24 9-Mar-24	12	12	0%	-127	-128	9 DD-2110	MS-2060, DD-108			-
MS-2090 MS-2060	MS - Preparation and Submission for DC06 Box Structure MS - Review and Approval of DC06 ELS	5-Jan-24 1 5-Oct-23 1	18-Jan-24 11-Dec-23	57	100% 11-Mar-24 23-Mar-24 100% 11-Mar-24 3-Apr-24	12	12	0%	-03	-əə -89	9 MS-2050 143 MS-2050	PO-1060, KD4-66			
MS-2100	MS - Review and Approval of DC06 Box Structure	19-Jan-24 8	8-Feb-24	18	94.44% 25-Mar-24 18-Apr-24	18	18	0%	-53	-53	9 MS-2090	KD4-6620	IS-2100, 25-Mar-24	+	
Decking DC07 MS-2070	MS - Preparation and Submission for DC07 ELS	20-Sep-23 4	4-Oct-23	11	100% 26-Feb-24 9-Mar-24	12	12	0%	-127	-128	0 DD-2121	MS-2080, DD-110			
MS-2101	MS - Preparation and Submission for DC07 Box Structure	3-Jan-24 1	16-Jan-24	12	100% 11-Mar-24 23-Mar-24	12	12	0%	-55	-55	0 MS-2070	MS-2102	<u> </u>		I
MS-2102	MS - Review and Approval of Method Statement for DC07 Box Structure	17-Jan-24 5	5-Feb-24	17	100% 25-Mar-24 17-Apr-24	17	17	0%	-55	-55	0 MS-2101	PO-1090	102, 25-Mar-24		I
MS-2080 Precast Beam	MS - Approval of Method Statement for DC07 ELS	5-Oct-23 2	27-Dec-23	69	100% 11-Mar-24 18-Apr-24	30	30	0%	-128	-89	137 MS-2070	KD4-3220, KD4-4			
MS-2112	MS - Preparation and Submission for Precast Beam Installation for DC06 and DC07 Decking	24-Feb-24 1	10-Apr-24	36	0% 18-Mar-24 3-May-24	36	36	0%	-19	-19	41 DD-2122	MS-2122		MS-2112, 18-Mar-24	
DD-1120	Subletting - DC06 Box Structure	9-Dec-23 2	23-Jan-24	36	100% 26-Feb-24 11-Apr-24	36	36	0%	-61	-61	33 DD-2110	PO-1080			-
DD-1140	Subletting - DC07 Box Structure	24-Jan-24 8	8-Mar-24	36	36.11% 26-Feb-24 11-Apr-24	36	36	0%	-25	-25	41 DD-2121	PO-1090	DD-1140, 26-Feb-24		-
Procurement PO-1080	Procurement - DC06 Material for Box Structure	9-Feb-24 4	1-Mar-24	18	0% 26-Feb-24 16-Mar-24	18	18	0%	-11	-11	33 DD-2110, DD-112	KD4-6620	PO-1080, 26-Feb-24	4	•
PO-1090	Procurement - DC07 Material for Box Structure	9-Mar-24 2	2-Apr-24	18	0% 18-Apr-24 9-May-24	18	18	0%	-30	-30	0 MS-2102, DD-212	KD4-3200			P0-1
Construction Works Preliminary Works															
Portion 18 & 19 (KI Portion 18 (KD4) -	ya) - working Deck (WD) and Pre-dnii Works Working Deck (WD) and Pre-dnii Works														
KD4-1020.D\ Portion 19 (KD4)	Portion 18 (WD) - Pre-drill (5no; 6d/no, 1wf)	4-Dec-23 1	10-Jan-24	30	100% 9-Dec-23 A 18-Mar-24	30	31	25%	-5	-55	19 S9-1080.DVP01,	KD4-1030.DVP01			
KD4-1030.D\	Portion 19 (WD) - Pre-drill (4no; 6d/no, 1wf)	11-Jan-24 7	7-Feb-24	24	100% 17-Nov-23 11-Mar-24	24	25	25%	44	-25	19 KD4-1020.DVP01	KD4-1040.DVP01			
KD4-1040.D\ Portion 3.8-12/KD	Portion 19 (WD) - Prepare and Submit Report	8-Feb-24 1	17-Feb-24	6	0% 12-Mar-24 18-Mar-24	6	6	0%	-25	-25	19 KD4-1030.DVP01	KD4-6620, KD4-3	KD4-1040.DVP01, 12-Mar-24		
Portion 3 (KD4) - T	raffic Deck (TD5)	20.00	DE Ner CO	40	100% 2.0-+02.4 0.5 + 0.5	6		259/	0	64	0 KD4 4000 00 10	KD4 1000 DV/D04		R Ech 24	
KD4-1050.D\ KD4-1060.D\	Portion 3 (TD5) - Road Setback at KU Kd. and KH Kd. Portion 3 (TD5) - Footing / Abutment for Traffic Deck	3-Uct-23 2 4-Dec-23 3	20-1NOV-23 3-Jan-24	46 24	100% 3-UCt-23 A 8-Feb-24 100% 9-Feb-24 11-Mar-24	0 24	1 24	∠5% 0%	-55	-61 -55	0 KD4-1000, S9-10 0 KD4-1050.DVP01	KD4-1060.DVP01 KD4-1070.DVP01		0-F60-24	
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	ctual Work Project Base	Data Date: 8-	Feb-24	000								YL/202	1/04		30-1
F	Remaining Work	Project End: 2	o Dec 2 26-Apr 2	022 19							Three M	onths Rollin	ig Programme		15-
	ritical Remaining Work ♦ ♦ Project Base	Page 3 of 6	-0-Api-2											·	15-5



			S	Site Formation	on and	Infrastru	cture V	Vorks for	Yuen	Long South	First Pha	ase De	evelopment – Contrac	et 2		
ivity ID	Activity Name	BL Project BL Project Start Finish	BL Project Duration	Schedule % Start Fin Complete	hish Dura	tion Remaining Duration	Activity % V Complete Proje	Variance - BL Var ect Start Date Project F	riance - BL Tota Finish Date	I Float Predecessors	Successors	67	January	February	25 02	2024 March
KD4-1070.D\	Portion 3 (TD5) - Decking for Traffic Deck	4-Jan-24 2-Mar-24	48	62.5% 12-Mar-24 29	-Apr-24 3	8 38	0%	-55	-45	0 KD4-1060.DVP01	KD4-6620	0/	14 21 20 1	11 10	23 03	
Portion 3 (KD4) -1	Taffic Deck (TD6)	27 Nev 22 2 Dec 22	6	100% 8 log 24 4 12	lan 24 (100%	22	22	S0 1090 DV/D01	KD4 1000 DVD01		13 Jan 24 A			
KD4-1000.D\ KD4-1090.D\	Portion 3 (TD6) - Footing / Abutment for Traffic Deck	4-Dec-23 3-Jan-24	24	100% 0-5an-24 A 15	-Feb-24 2	4 4	20%	-33	-35	20 KD4-1080.DVP01	KD4-1030.DVP01		-			
KD4-1100.D\	Portion 3 (TD6) - Decking for Traffic Deck	4-Jan-24 2-Mar-24	48	62.5% 12-Mar-24 5-	Apr-24 3	8 38	0%	-55	-25	20 KD4-1090.DVP01	KD4-6620			►		
Portion 3 (KD4) -1	raffic Deck (TD9)	11- Jan 24 7-Eeb-24	24	100% 28 Dec. 23 8	Eeb-24 2	4 1	36%	11	-1	1 KD4-1110 DVP01	KD4-1130 DV/P01			8.Feb.24		
KD4-1120.D\ KD4-1130.D\	Portion 3 (TD9) - Decking / Abdanenic for Traffic Deck	8-Feb-24 11-Apr-24	48	0% 9-Feb-24 12	-Apr-24 2	8 48	0%	-1	-1	1 KD4-1120.DVP01	KD4-1130.DVP01 KD4-3200. CB-01	-	KD4-1130.DVP01, 9-Feb-24	► 01 60-24		
Portion 12 (KD4)	Traffic Deck (TD 10)						0001							0.5 1.04		
KD4-1150.D\	Portion 12 (TD10) - Footing / Abutment for Traffic Deck	11-Jan-24 7-Feb-24 8-Feb-24 11-Apr-24	24	100% 6-Dec-23 A 8-	Feb-24 2	4 1 8 48	66%	28	-1	2 KD4-1140.DVP01 2 KD4-1150 DVP01	KD4-1160.DVP01		KD4-1160 DVP01 8-Eeb-24	8 8-Feb-24		
Portion 19 - Concre	te Block Platform	0-1 eu-24 11-Api-24	40	076 047 60-24	-Api-24 4	0 40	078	U	U	2 04-1130.07701	KD4-3200, CB-01		100-1100.01101,0100-24			
CB-0190.B02	Removal of Deck CB05 Portion 19	15-Apr-24 30-Apr-24	14	0% 13-Apr-24 29	-Apr-24 1	4 14	0%	1	1	1 CB-0130.B02, MS	SC-1230			-		
Portion 18 (KD4) -	10 D C C C C C C C C C C C C C C C C C C															
Portion 18 (KD4) Portion 18 (KD4)	Kiu Hing Road - Piling															
KD4-6020	Portion 18 (BC04/DC06) - Trial pit / trench for DC06	4-Dec-23 3-Jan-24	24	100% 9-Feb-24 11	-Mar-24 2	4 24	0%	-55	-55	0 KD4-1080.DVP01	KD4-1090.DVP01					11-Mar-24
Portion 19 (KD4) - Portion 19 (KD4)	3C04 and DC07 Kiu Hing Road															
Portion 19 (KD4) KD4-1210	- Piling Portion 19 (BC04/DC07) - Trial pit / trench for DC07	11-Jan-24 7-Feb-24	24	100% 8-Feb-24 9-	Mar-24 2	4 24	0%	-24	-24	26 S9-1080.DVP01.	KD4-3200, CB-01	-24	~	•		9-Mar-24
Section 9 [Portions 3, 12, 12A, 12B,12C, 13, 18 & 19] - KU Rd. and KH Rd.		2.1	10070 01 00 21			0,0			20 00 1000.0 11 01,	1.01 0200, 00 01					
Design Temp. Working Foot	bridge FB01, FB02, FB03 and FB04															
DD-S9-1090.A(Design - Review and Approval for FB01,FB02,FB03,FB04 Temp. Footbridge	23-Sep-23 6-Jan-24	85	100% 23-Sep-23 29	-Feb-24 1	8 16	25%	0	-43	34 DD-S9-1080.A01	S9-1005.DVP01,				29-Feb-24	
DD-S9-1030	Design - Review and Approval of BC04 ELS	25-Nov-23 15-Dec-23	18	100% 22-Aug-23 8-	Feb-24 1	8 1	25%	79	-44	23 DD-S9-1020	S9-1500.DVP01	•		8-Feb-24		
ELSUU			(0		5 L A L						P.P. 00 (050 M0					
DD-S9-1040	Design - Preparation and Submission of UU ELS (Portion 3, 12, 18 & 19)	25-Nov-23 8-Dec-23 9-Dec-23 2-lan-24	12	100% 8-Feb-24 24	-Feb-24 1 Mar-24 1	2 12 8 18	0%	-61	-61	89 DD-S9-1020	DD-S9-1050, MS- S0-1600 S0-1720	_	[24-FeD-24	16-Mar-24
Road Lighting Syste		5-Dec-25 2-Jall-24	10	100 % 20-1-60-24	-ividi-24 i	0 10	078	-01	-01	131 00-35-1040	35-1030, 35-1720					10-1001-24
DD-S9-1060	Design - Preparation and Submission of Road Lighting System	25-Nov-23 8-Dec-23	12	100% 8-Feb-24 24	-Feb-24 1	2 12	0%	-61	-61	113 CD-1010, DD-S9	DD-S9-1070, Sub	_			24-Feb-24	
DD-S9-1070 Method Statement	Design - Review and Approval of Road Lighting System	9-Dec-23 2-Jan-24	18	100% 26-Feb-24 16	-Mar-24 1	8 18	0%	-61	-61	161 DD-S9-1060	S9-1700, S9-6860			-		16-Mar-24
Temp. Working Plat	omeLSEC04	05 N 00 0 D 00	40	400% OF N. OS 43	51.04		05%	0		0 00 4000	110 00 1000 110			47.5-1.04		
MS-S9-1020 MS-S9-1000	MS - Preparation and Submission for BC04 ELS MS - Preparation and Submission for BC04 Box Structure	25-Nov-23 8-Dec-23 25-Nov-23 8-Dec-23	12	100% 25-Nov-2: 1/ 100% 8-Eeb-24 24	-Feb-24 1	2 6	25%	-61	-55	36 DD-S9-1020	MS-S9-1030, MS- MS-S9-1010	_		17-FeD-24	24-Feb-24	
MS-S9-1000	MS - Review and Approval of BC04 ELS	9-Dec-23 2-Jan-24	12	100% 19-Feb-24 9-	Mar-24 1	8 18	0%	-55	-55	0 MS-S9-1020	S9-1500.DVP01	-			24105 24	9-Mar-24
MS-S9-1010	MS - Review and Approval for BC04 Box Structure	9-Dec-23 2-Jan-24	18	100% 26-Feb-24 16	-Mar-24 1	8 18	0%	-61	-61	36 MS-S9-1000	S9-1270, S9-1510			-	-	
ELSUU MS-S9-10/0	MS - Dreparation and Submission for IIII (Portion 3, 12, 18, 8, 10) FLS	25-Nov-23 8-Dec-23	12	100% 8-Eeb-24 24	-Feb-2/ 1	2 12	0%	-61	-61	80 00-59-10/0	MS-SQ-1050 Sub			-	24-Feb-24	
MS-S9-1040 MS-S9-1050	MS - Review and Approval of UU (Portion 3, 12, 18 & 19) ELS	9-Dec-23 2-Jan-24	12	100% 26-Feb-24 16	-Mar-24 1	8 18	0%	-61	-61	89 MS-S9-1040	S9-1610	-			-	16-Mar-24
Subletting																
Sub-S9-1020 Construction Works	Subletting - UU ELS (Portion 3, 12, 18 & 19)	9-Dec-23 23-Jan-24	36	100% 26-Feb-24 11	-Apr-24 3	6 36	0%	-61	-61	113 DD-S9-1040, DD-	S9-1690, S9-4/50					
Preliminary Works											_					
S9-1100	Tree Survey, Felling and preservation for Portion 3, 12 & 13	7-Apr-23 25-Nov-23	190	100% 7-Apr-23 A 8-	Feb-24 2	4 1	50%	0	-61	11 S9-1000, S9-102	S9-5110, S9-5210	<u> </u>		8-F.eb-24		
Portion 12B - Dem	alition Dartion 12R - Building demolition, removal and Site clearance	17. Jap.24 15. Mar.24	48	30.58% 15 Jan 24 18	lan-24 /	8 0	100%	2	46	MS-S9-1110 DV/F	\$9,1610	5. Jap.24 A				18. Jan-24 A
Portion 3, 12 & 13	Ground Investigation (G)	17-Jd1P24 1J-Wd1-24	40	35.30% 13-3air24 10	-Jdir24 4	0	100 /6	2	40	WG-35-1110.DVF	33-1010	5-561F24 A				10-9dir24 A
Portion 3 & 12 - G \$9-1060	round Investigation (GI) Portion 3 (GI) - Ground Investigation along BC04 [After KD2B] (12no: 10d/no. 3wf)	6-Feb-24 26-Mar-24	40	5% 6-Dec-23 A 26	-Mar-24 4	0 38	2%	50	0	44 S9-1040 DVP01	\$9-1320					
S9-1040	Portion 12 (GI) - Ground Investigation along BC04 [After KD2B] (9no; 10d/no, 2wf)	12-Dec-23 5-Feb-24	45	100% 8-Feb-24 8-	Apr-24 4	5 45	0%	-47	-47	0 P-1260.DVP01, S	S9-4210				_	
Portion 13 - Grou	d Investigation (GI)	11 km 04 10 Mm 04	50	40% 0.5-6.04 43	Arr 04 5	0 50	0%	04	04	20 00 4050 00 404	00 5440 .00 5046	24				
Portion 3, 12 & 13	Portion 13 (G) - Ground Investigation along BC06 & BC07 [After KD2C] (1000; 100/10, 2W) Working Deck (WD) and Pre-drill Works	11-Jan-24 12-Mar-24	50	40% 0-F60-24 13	-Apr-24 o	0 00	0%	-24	-24	-38 59-1050, 59-1041	59-0110, 59-021t	-24				
Portion 3 & 12 - W	orking Deck (WD) and Pre-drillWorks	4-Dec-23 9-Dec-23	6	100% 8-Eeb-24 17	-Eeb-24 (0%	-54	-54	27 S9-1000 DVP01	\$9-1110 D\/P01			17.Eeb-24		
S9-1110.DVF	Portion 3 (WD) - Pre-drill (10no; 6d/no, 2wf)	11-Dec-23 19-Jan-24	32	100% 19-Feb-24 26	-Mar-24 3	2 32	0%	-54	-54	27 S9-1040.DVP01,	S9-1120.DVP01	_		₽	_	
S9-1120.DVF	Portion 12 (WD) - Pre-drill (11no; 6d/no, 2wf)	20-Dec-23 1-Feb-24	35	100% 28-Feb-24 12	-Apr-24 3	5 35	0%	-54	-54	27 S9-1110.DVP01	S9-1130.DVP01				···· l+	
S9-1130.DVF	Portion 3 & 12 (WD) - Prepare and Submit Report	2-Feb-24 8-Feb-24	6	83.33% 13-Apr-24 19	-Apr-24 6	6	0%	-54	-54	27 S9-1120.DVP01	S9-4220, S9-1320		S9-1130.DVP01, 13-Apr-24	H		
S9-1150.DVF	ng Deck (WD) and Pre-drillWorks Portion 13 (WD) - Plant Mobilization for Pre-drill	13-Dec-23 19-Dec-23	6	100% 8-Feb-24 17	-Feb-24 6	6	0%	-46	-46	-30 S9-1140.DVP01	S9-1160.DVP01			17-Feb-24		
S9-1160.DVF	Portion 13 (WD) - Pre-drill (10no; 6d/no, 2wf)	20-Dec-23 26-Jan-24	30	100% 19-Feb-24 23	-Mar-24 3	0 30	0%	-46	-46	-30 S9-1040.DVP01,	S9-1170.DVP01			<u>له الم</u>		23-Ma
S9-1170.DVF	Portion 13 (WD) - Prepare and Submit Report	27-Jan-24 2-Feb-24	6	100% 25-Mar-24 3-	Apr-24 6	6	0%	-46	-46	-30 S9-1160.DVP01	S9-5110, S9-5210	S9-1	1170.DVP01, 25-Mar-24			L -
Portion 3 & 13 - Tra Portion 13 - Traffic	ffic Deck Deck (TD11)															
S9-1210.DVF	Portion 13 (TD11) - Road Setback at WNTT Rd. and KH Rd.	25-Nov-23 2-Dec-23	7	100% 8-Feb-24 19	-Feb-24	7	0%	-61	-61	-27 S9-1080.DVP01,	S9-1220.DVP01	_		19-Feb-24	1	
S9-1220.DVF	Portion 13 (TD11) - Footing / Abutment for Traffic Deck	4-Dec-23 3-Jan-24	24	100% 20-Feb-24 18	-Mar-24 2	4 24 9 39	0%	-61	-61	-27 S9-1210.DVP01	S9-1230.DVP01					18-Mar-24
Box Culvert BC04 a	nd Decking	4-Jd11-24 2-Wid1-24	40	02.376 13-Widi-24 1-	way-24 J	0 30	078	-01	-51	-21 33-1220.DVF01	35-3110, 35-3130					
Portion 3 - BC04, D Portion 3 - Piling V	C02A & Temp. FB01 (CHB 55 - CHB 95) /orks DC02A															
S9-1005.DVF	Portion 3 (BC04/DC02A) - Construction of BC04 and the temp. footbridge 01	8-Jan-24 29-Apr-24	90	30% 1-Mar-24 21	-Jun-24 9	0 90	0%	-43	-43	34 DD-S9-1090.A01	S9-1210				4 - [
S9-1210	Portion 3 (BC04/DC02A) - TTA 15m BC04 and footbridge DC02A	30-Apr-24 7-May-24	6	0% 22-Jun-24 28	-Jun-24 (6	0%	-43	-43	34 S9-1005.DVP01	S9-1230					
Portion 3 - Piling V	forks DC02B															
S9-1320 Portion 3 - BC04 at	Portion 3 (DC02B) - TTA DC02B	27-Mar-24 6-Apr-24	6	0% 20-Apr-24 26	-Apr-24 6	6 6	0%	-17	-17	27 P-1450, S9-1130.	S9-1350					S9-1320, 20-Apr-24
Portion 3 - Piling V	korks DC06B			01/ 00 + 01	Ans 24		00/		F 1	50 D 4450 00 1105	C0 1042 DV/CC1		00 4000 DUD04 00 -			
59-1000.DVF Portion 3 - BC04 (C	PORIOR 3 (DC00B) - 1 I A DC02B and DC06B HB150-CHB255)	9-FeD-24 19-Feb-24	6	u% 20-Apr-24 26	-Apr-24 (6	U%	-54	-54	ou P-1450, S9-1130.	39-1013.DVP01		59-1000.DVP01, 20-Apr-1	*		
S9-1510	Portion 3 (BC04) - Construct BC04, stage 1	24-Feb-24 10-Apr-24	36	0% 4-May-24 17	-Jun-24 3	6 36	0%	-55	-55	0 S9-1500.DVP01,	S9-1520, S9-1610			S9-1510, 4-May-24		
S9-5780.B02	Portion 3 (BC04) - Removal of Formworks and Backfilling	11-Apr-24 30-Apr-24	17	0% 18-Jun-24 8-	Jul-24 1	7 17	0%	-55	-55	0 S9-1510	S9-1610					
Portion 12 - BC04, Portion 12 - Temp	Footbridge FB03															
S9-4210	Portion 12 (BC04/FB03) - TTA Decking DC07A & DC07C	6-Feb-24 15-Feb-24	6	33.33% 9-Apr-24 15	-Apr-24 6	6 6	0%	-47	-47	0 S9-1040, P-1450	S9-4213.DVP01		S9-4210, 9-Apr-24 =			
S9-4510	Portion 12 (BC04) - ELS BC04, stage 1 (CHB 1005-1070, 1 wf)	2-Mar-24 8-Mar-24	6	0% 3-May-24 9-	May-24 6	6 6	0%	-48	-48	6 S9-1500.DVP01	S9-4540			S9-4510, 3	3-May-24	-
S9-4540	Portion 12 (BC04) - Construct BC04, stage 1 (CHB 1005-1070, 1 wf)	9-Mar-24 24-Apr-24	36	0% 10-May-24 22	-Jun-24 3	6 36	0%	-48	-48	6 S9-4510	S9-4550				S9-4540, 10-May-24	4
Portion 13 - BC06, S9-5210	BCU/ and CO9 (CHC 373 - CHC 385) Portion 13 (BC06/BC07/DC09) - TTA BC06, BC07 & DC09 (pre. beam x 7 nos.)	13-Mar-24 19-Mar-24	6	0% 15-Apr-24 20	-Apr-24	6	0%	-24	-24	-38 S9-1100, S9-107	S9-5220		>		S9-5210. 1	5-Apr-24
Section 11 [Portions 16 and 16A] - KH Rd. and Wong Ngai Tun Tsuen Road		Ű			Ĵ		.1								-
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F	Remaining Work	Project End: 06 Apr	2022							Three M	onths Rolli	ng Pro	gramme	ŀ	15-Jan-24	202312 MPU
	Critical Remaining Work \diamond Project Base	Page 4 of 6										-	-	-	15-Feb-24	202401 MPU
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S9-4510, 3-Ma Si	ay-24	4					
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tivity ID	Activity Name	BL Project Start	BL Project Finish	BL Project Duration	Schedule % Start Complete	Finish	Duration	Remaining Duration	Activity % Complete	Variance - BL Project Start Date Pr	Variance - BL To oject Finish Date	otal Float Predecessors	Successors	January	February	18 2
Design	1			1						I	I					
DD-S11-1020.[Design - Preparation and Submission for ELS for BC06 and BC07 for Portion 16	25-Nov-23	8-Dec-23	12	100% 8-Feb-24	24-Feb-24	12	12	0%	-61	-61	-17 DD-S11-1000.DV	DD-S11-1030.DV			24-Fe
DD-S11-1030.[Design - Review and Approval of ELS for BC06 and BC07 for Portion 16	9-Dec-23	2-Jan-24	18	100% 26-Feb-24	16-Mar-24	18	18	0%	-61	-61	1 DD-S11-1020.DV	S11-2010			-
DD-S11-1070.[Design - Review and Approval of Traffic Deck Design	7-Sep-23	25-Nov-23	66	100% 7-Sep-23 /	A 8-Feb-24	18	1	25%	0	-61	-18 DD-S11-1060.DV	MS-S11-1000.DV		8-Feb-24	
Decking	Design - Dranaration and Submission of Decking Process Ream			0	0% 8-Eeb-24	24-Eeb-24	12	12	0%			-17 DD-S11-1010 DV	DD-8000 C02 SI	DD-8080-C02. 8 Feb.	24	24-Fe
DD-8090.C02	Design - Review and Approval of Decking Precast Beam			0	0% 26-Feb-24	16-Mar-24	12	12	0%			1 DD-8080.C02	PO-S11-1020.DV		DD-8090.C02,	, 26-Feb-24
Method Statement				· · · · · ·												
MS-S11-1045.[MS - Preparation and Submission of Precast Beam Installation for Decking	9-Dec-23	22-Dec-23	12	100% 26-Feb-24	9-Mar-24	12	12	0%	-61	-61	61 MS-S11-1025.DV	MS-S11-1055.DV			-
MS-S11-1055.[MS - Review and Approval of Precast Beam Installation for Decking	23-Dec-23	16-Jan-24	18	100% 11-Mar-24	3-Apr-24	18	18	0%	-61	-61	61 MS-S11-1045.DV	S11-2020			
MS-S11-1025.[MS - Preparation and Submission of ELS for BC06 and BC07 for Portion 16	25-Nov-23	8-Dec-23	12	100% 8-Feb-24	24-Feb-24	12	12	0%	-61	-61	1 MS-S11-1005.DV	MS-S11-1035.DV	•		24-Fe
MS-S11-1035.[MS - Review and Approval of ELS for BC06 and BC07 for Portion 16	9-Dec-23	2-Jan-24	18	100% 26-Feb-24	16-Mar-24	18	18	0%	-61	-61	1 MS-S11-1025.DV	S11-2010			
MS-S11-1040.[MS - Preparation and Submission of Piling	9-Dec-23	22-Dec-23	12	100% 8-Feb-24	24-Feb-24	12	12	0%	-49	-49	1 MS-S9-1020.DVF	MS-S11-1050.DV			24-Fe
MS-S11-1050.[MS - Review and Approval of Piling	23-Dec-23	16-Jan-24	18	100% 26-Feb-24	16-Mar-24	18	18	0%	-49	-49	1 MS-S11-1040.DV	S11-2010			-
Subletting SL-S11-1020.D	Subletting - ELS for BC06 and BC07 for Portion 16	9-Dec-23	23-Jan-24	36	100% 26-Feb-24	11-Apr-24	36	36	0%	-61	-61	-17 DD-S11-1020.DV	S11-2010			~
SL-S11-1060.D	Subletting - Precast Beam for Decking DC10	23-Dec-23	6-Feb-24	36	100% 26-Feb-24	11-Apr-24	36	36	0%	-49	-49	-17 DD-8080.C02	PO-S11-1020.DV		-	
Procurement PO-S11-1010 D	Procurement - Material for Precast Beam for Decking DC10	23-Dec-23	6-Feb-24	36	100% 26-Feb-24	11-Anr-24	36	36	0%	-49	-49	-17 DD-8080 C02	PO-S11-1020 DV			-
PO-S11-1020.D	Procurement - Fabrication of the precast beams -DC10	7-Feb-24	10-Apr-24	48	2.08% 12-Apr-24	8-Jun-24	48	48	0%	-49	-49	-17 SL-S11-1010.DVI	S11-2020, PO-S1	PO-S11-1020.DVP01, 12-Apr-24	4	
Construction Works Preliminary Works																
Portion 16 - Tree	Portion 16 - Tree Survey Falling and preservation	7 Apr 22	22 Dec 22	212	100% 7-Apr 22 A	7.Mar. 94	24	22	50%	٥	50	12 CD-1020 AD 124	S11-10/0 DV/D04			
Portion 16 - Ground	d hvestigation (Gi)	7-Apt-23	22-000-23	213	100 /0 / 1-Api-23 P	v / -wiai -24	24	22	JU%	U	-09	-12 OD-1020, AD-130	011-1040.DVP01			
S9-1050	Portion 16 (GI) - Ground Investigation along BC06 & BC07 [After KD2C] (3no; 10d/no, 1 wf)) 9-Aug-23	10-Jan-24	127	100% 9-Aug-23	A 16-Mar-24	50	30	33.33%	0	-54	-38 S11-1030.DVP01	S9-1070			
S11-1040.DVF	Portion 16 (WD) - Erection of Working Deck WD	3-Oct-23	12-Dec-23	60	100% 3-Oct-23 A	9-Feb-24	18	1	25%	0	-48	-13 MS-S11-1030.DV	S11-1050.DVP01		9-Eep-24	
S11-1050.DVF	Portion 16 (WD) - Plant Mobilization for Pre-drill	13-Dec-23	19-Dec-23	6	100% 14-Feb-24	20-Feb-24	6	6	0%	-48	-48	-13 S11-1040.DVP01	S11-1060.DVP01	_		20-Feb-24
S11-1060.DVF	Portion 16 (WD) - Pre-dnll (5no; 6d/no, 1wt) Portion 16 (WD) - Prenare and Submit Report	20-Dec-23 27lan-24	26-Jan-24 2-Feb-24	30	100% 21-Feb-24 100% 27-Mar-24	26-Mar-24 6-Anr-24	30	30	0%	-48 -48	-48 -48	-13 S11-1030.DVP01 -13 S11-1060 DVP01	S11-10/0.DVP01 S11-2010	S11-1070.DVP01. 27-Mar-24		
Portion 16 - Traffic	Deck (TD14)	2. 00.121	210021		10070 21 1101 21	074721	Ū	Ū	0.0		10	10 011 1000.011 01	0112010			
S11-1080.DVF	Portion 16 (TD14) - Road Setback at WNTT Rd. and KH Rd.	20-Dec-23	28-Dec-23	6	100% 8-Feb-24	17-Feb-24	6	6	0%	-40	-40	-23 S11-1030.DVP01	S11-1090.DVP01			7-Feb-24
S11-1030.DVF	Portion 16 (TD14) - Decking for Traffic Deck	23-Dac-23 27-Jan-24	27-Feb-24	24	41.67% 18-Mar-24	18-Apr-24	24	24	0%	-40	-40	-23 S11-1090.DVP01	S11-2010	S11-1100.DVP01, 18-Mar-24		
Box Culvert BC06, Portion 16/16A - BC	EC07 and Decking 206 and BC07 (40m, CHC 395 to CHC 435)			<u> </u>			· ·									
S11-4040.C01	Portion 16,16A (BC06/BC07) - Road Setback (CH.400- CH.420)			0	0% 8-Feb-24	17-Feb-24	6	6	0%			-9 S11-1080.DVP01	S11-4050.C01	S11-4040.C01, 8-Feb-	24	7-Feb-24
S11-4050.C01	Portion 16, 16A (BC06/BC07) - ELS and Excavation to FEL (CH.400- CH.420) Region 14) Slip Rood S2			0	0% 19-Feb-24	28-Mar-24	34	34	0%			-9 S11-4040.C01	S11-4060.C01, S'	S1	11-4050.C01, 19-Feb-24	
Design																
DD-S4-1010.DV DD-S4-1030 DV	Design - Submission of ELS of Box Structure Design - Submission of Construction of Box Structure	20-Nov-23 25-Nov-23	5-Dec-23	14	100% 20-Nov-2: 100% 8-Feb-24	8-Feb-24 23-Feb-24	12	1	90%	-61	-53	-27 S4-1000 45 S4-1000	DD-S4-1020.DVP	_	8-FeD-24	23-Feb-
DD-S4-1020.DV	Design - Approval of ELS of Box Structure	6-Dec-23	28-Dec-23	18	100% 9-Feb-24	4-Mar-24	18	18	0%	-53	-53	-15 DD-S4-1010.DVF	S4-2070.DVP01	-		
DD-S4-1040.DV	Design - Approval of Construction of Box Structure	8-Dec-23	30-Dec-23	18	100% 24-Feb-24	15-Mar-24	18	18	0%	-61	-61	45 DD-S4-1030.DVF	S4-1090.DVP02,			L >
S4-1040.DVP02	MS - Submission of ELS of Box Structure	29-Dec-23	12-Jan-24	12	100% 9-Feb-24	26-Feb-24	12	12	0%	-35	-35	-27 DD-S4-1010.DVF	S4-1060.DVP02			26
S4-1060.DVP02	MS - Approval of ELS of Box Structure	13-Jan-24	2-Feb-24	18	100% 27-Feb-24	18-Mar-24	18	18	0%	-35	-35	-27 S4-1040.DVP02	S4-2070.DVP01	Feb-24		-
S4-1090.DVP02 S4-1100.DVP02	MS - Submission of Construction of Box Structure MS - Approval of Construction of Box Structure	2-Jan-24 16-Jan-24	15-Jan-24 5-Feb-24	12	100% 16-Mar-24 100% 3-Apr-24	2-Apr-24 24-Apr-24	12	12	0%	-61	-61	45 DD-S4-1040.DVF 45 S4-1090.DVP02	S4-1100.DVP02 S4-2020	P02. 3-Apr-24	.	
Subletting																
S4-1080.DVP02 TTA Scheme/XP	Subletting for Box Structure	6-Feb-24	21-Mar-24	36	5.56% 9-Dec-23 /	A 26-Jan-24	36	0	100%	47	44	DD-S4-1030.DVF	PR-S4-1020			
S12-1000.RP.B	TTA - Scheme Review and Approval	25-Nov-23	2-Jan-24	30	100% 25-Nov-23	5-Mar-24	30	20	0%	0	-51	42 S4-1020	S12-1010.RP.B01			
S12-1010.RP.B	TTA - Scheme TMLG Coordination/Meeting/Approval	3-Jan-24	16-Feb-24	36	86.11% 6-Mar-24	20-Apr-24	36	36	0%	-51	-51	42 S12-1000.RP.B01	S12-1020.RP.B01		PP P01 22 Apr 24	
Construction Works	I H - Roduwork Aurise (NA)	17-160-24	23-160-24	0	0/6 22-Api-24	21-Api-24	0	0	0.10	-51	-51	42 312-1010.RP.B0	34-2020	012-1020		
Site Formation/Fill R S4-2050	Portion 14 (SF) - Excavation on slope with Temporary access and haul road formation	16-Oct-23	11-Dec-23	48	100% 16-Oct-23	8-Feb-24	48	1	100%	0	-48	-17 S4-2010	S4-2060, S4-2070		8-Feb-24	
Box Structure and E	sackdrop Manhole	20. Jap 24	20 Eab 24	24	66.67% 10 Mar 24	10 Apr 24	24	24	09/	47	47	27 C4 2050 DD C4	C4 2110 DD D01	0 DV/001 10 Mor 24		
S4-2070.DVP01	1 Excavation works Box Structure	20-Jail-24 21-Feb-24	13-Apr-24	42	0% 20-Apr-24	11-Jun-24	42	42	0%	-47	-47	-27 S4-2050, PR-34-	S4-2110.RP.B01	0.00001, 100ma1-24	S4-2110.RP.B01, 20-Apr-24	
KD5 Section 10	Portions 10, 10A, 10B, 10C, &10D] - Box Culvert BC01															
Design DD-1590	Design: Approval of ELS Design including ICE	9-Sep-24	30-Sep-24	18	0% 9-Jan-24 A	A 29-Jan-24	18	0	100%	198	198	DD-1580	KD5-BC1-1030, N			
Method Statement	Method Statement of Box Construction Approval including CLA	17 Oct 94	6-Nov-24	10	0% 2 lon 24 /	8-Eah-24	19	1	0%	222	210	188 MS-K5-1100	KD5_BC1_2010			
Subletting	monios orationioni, or box occistration Approval including CIA	17-Utt-24	0-1407-24	10	0 /0 J-Jd11-24 F	. 0-1'60-24	U	1	0.76	200	219	100 110-10-1100	100-001-2010			
Sub-K5-1050	Subletting - ELS & structure for BC01	17-Oct-24	27-Nov-24	36	0% 24-Oct-23	8-Feb-24	36	1	25%	291	237	188 KD5-2080, MS-K	KD5-BC1-2010			
PO-K5-1050	Procurement - ELS & structure for BC01	2-Oct-24	23-Oct-24	18	0% 24-Oct-23	8-Feb-24	18	1	25%	279	207	188 KD5-2080, DD-18	KD5-BC1-2010			
Construction Works Box Culvert BC01																
2nd Dry Season 2 Road set back	3/24															
KD5-1010	Road set back and reinstatement - Kiu Hing road	7-Sep-23	15-Dec-23	83	100% 7-Sep-23 /	A 8-Feb-24	18	1	80%	0	-44	-46 AW-K5-1000	KD1-RW1-1000, ł		8-Feb-24	
KD5-BC-109(Erection of Deck CB09 Portion 10			0	0% 15-Jan-24	23-Jan-24	21	0	100%			KD5-BC-1020.DV	KD5-BC1-1010	5-Jan-24 A 23-Jan-24 A	_	
KD5-BC1-10 ⁷	Piling Plant Mobilization to Nullah BC01	29-Feb-24	8-Mar-24	8	0% 30-Jan-24	1-Feb-24 A	8	0	100%	23	28	SC-1210, KD5-B(KD5-BC1-1030	KD5-BC1-1010, 30-Jan-24 A		
KD5-BC1-10:	Socket H - BC01 48 nos (at nullah) (3d/nr, 2 rigs) - at nullah Portions 10, 10A, 10B, 10C, 810D1 - Decking DC01 & Noise Enclosure	9-Mar-24	20-Jun-24	82	0% 1-Feb-24 /	A 27-Apr-24	82	61	2%	29	43	-47 KD5-BC1-1010, ł	SC-1230, KD5-BC	KD5-BC1-1030, 1-Feb-24 A		
Design		40.11	04 N=- 00	40	100% 4 5 1 011	1 00 E-L 04	40	10	0.01	00	74	0.00.4552	DD 1040 D1/001			
DD-1616.DVP01	Design - Submission of Deck CB08	10-Nov-23 25-Nov-23	15-Dec-23	13	100% 1-Feb-24 / 100% 23-Feb-24	14-Mar-24	12	10	0%	-oo -71	-/1 -71	12 DD-1615.DVP01	DD-1610.DVP01, DD-1640.DVP01			►
DD-S10-1090.B	Design - DDA Design for noise enclosure / noise barrier - S690 - AD	26-Sep-23	6-Jan-24	82	100% 26-Sep-23	23-Mar-24	36	36	0%	1	-63	111 DD-S10-1090.DV	DD-S10-1200.B02		-	
DD-1640.DVP01	Design - Submission of ELS & structure for DC01	16-Dec-23	2-Jan-24	12	100% 15-Mar-24	28-Mar-24	12	12	0%	-71	-71	209 DD-1616.DVP01	DD-1650.DVP01,			
UU-1650.DVP01	Design - Approval of ELS & structure for DC01	3-Jan-24	23-Jan-24	18	100% 2-Apr-24	23-Apr-24	18	18	0%	-71	-71	209 DD-1640.DVP01	PO-S10-1030.DV			
	Actual Work	Data Date: S	8-Feh-24	L									VI /000	104		
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		Project End	: 26-Apr-	-29								Three M	Ionths Rolli	ng Programme		15-
	רתוכמו Remaining vvork ♦ Project Base	Page 5 of 6	•													15-

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15-Feb-24 202	401 MF	PU U					

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ivity ID	Activity Name	BL Project Start	BL Project Finish	BL Project Duration	Schedule % Start Complete	Finish	Duration	Remaining Act Duration Co	tivity % mplete	Variance - BL Project Start Date	Variance - BL 1 Project Finish Date	otal Float Predecessors	Successors	January	February	
DD-1660.DVP01	Design - Submission of Precast Beam Installation for Decking DC01	24-Jan-24	6-Feb-24	12	100% 24-Apr-24	8-May-24	12	12	0%	-71	-71	209 DD-1650.DVP01	DD-1670.DVP01	DD-1660.DVP01, 24-Apr-24	11 18	25
DD-S10-1200.B	Design - DDA Approval for noise enclosure / noise barrier - S690 - AD	8-Jan-24	21-Feb-24	36	75% 25-Mar-24	10-May-24	36	36	0%	-63	-63	111 DD-S10-1090.B02	2 DD-S10-1020		<u> </u>	
DD-1670.DVP01	Design - Approval of Precast Beam Installation for Decking DC01	7-Feb-24	1-Mar-24	18	5.56% 9-May-24	30-May-24	18	18	0%	-71	-71	209 DD-1660.DVP01	MS-KD5-1160.DV	DD-1670.DVP01, 9-May-24 =		
Method Statement	MS. Diling Works for Dation 10	25 Nov 22	8 Dog 22	12	100% 25 Nov 23	8 Ech 24	12	1	25%	0	50	210 CD 1020	MS KD5 1100 DV		8-Eah-24	
MS-KD5-1100.L	MS - Annroval of MS for Polition Vorks for Portion 10	9-Dec-23	2-Jan-24	12	100% 2J=N0v=2c	4-Mar-24	12	18	23%	-50	-50	210 CD-1020	S10-DC1-1020 D	-	-	
MS-KD5-1120.E	MS - Method Statement of Deck CB08	13-Nov-23	25-Nov-23	11	100% 23-Feb-24	7-Mar-24	12	12	0%	-82	-83	1 DD-1615.DVP01	MS-KD5-1130.DV	-		*
MS-KD5-1130.E	MS - Approval of Method Statement of Deck CB08	25-Nov-23	15-Dec-23	18	100% 7-Mar-24	27-Mar-24	18	18	0%	-82	-82	1 MS-KD5-1120.D\	SC-1230, TTA-KE			
MS-KD5-1140.E	MS - Method statement for ELS & structure for DC01	3-Jan-24	16-Jan-24	12	100% 2-Apr-24	16-Apr-24	12	12	0%	-71	-71	224 DD-1640.DVP01	MS-KD5-1150.DV			
MS-KD5-1150.E	MS - Approval of ELS & structure for DC01	17-Jan-24	6-Feb-24	18	100% 17-Apr-24	8-May-24	18	18	0%	-71	-71	224 MS-KD5-1140.D\	KD5-DC1-1020.D	P01, 17-Apr-24		
MS-KD5-1160.E	MS - Precast Beam Installation for Decking DC01	2-Mar-24	15-Mar-24	12	0% 31-May-24	14-Jun-24	12	12	0%	-71	-71	209 DD-1670.DVP01	MS-KD5-1170.DV	-	MS-KD5-1160.DV	P01, 31-May-2
Subletting	MS - Approval MS for Precast Beam installation for Decking DC01	10-IVIar-24	TU-Apr-24	10	0% 15-Jun-24	0-JUI-24	10	10	0%	-/1	-/ 1	209 MS-KD5-1160.DV	SUD-NO-1090.DVF			1010-1
Sub-K5-1051.D\	Subletting - Deck CB08	3-Aug-23	18-Sep-23	40	100% 23-Feb-24	9-Apr-24	36	36	0%	-166	-162	0 DD-1615.DVP01	SC-1230, TTA-KE			-
Sub-K5-1080.D\	Subletting - ELS & structure for DC01	17-Jan-24	1-Mar-24	36	52.78% 17-Apr-24	30-May-24	36	36	0%	-71	-71	399 MS-KD5-1140.D\	KD5-DC1-1020	P01, 17-Apr-24		
Procurement General																
PO-S10-1020.[Procurement - Deck CB08	14-Aug-23	18-Sep-23	31	100% 23-Feb-24	9-Apr-24	36	36	0%	-157	-162	0 DD-1615.DVP01	SC-1230, TTA-KE			-
PO-S10-1030.[Procurement - ELS & structure for DC01	24-Jan-24	16-Feb-24	18	72.22% 24-Apr-24	16-May-24	18	18	0%	-71	-71	218 DD-1650.DVP01	KD5-DC1-1020.D	S10-1030.DVP01, 24-Apr-24		
DD-S10-1020	Procurement - S690 Noise Barrier	22-Feb-24	7-May-24	60	0% 11-May-24	23-Jul-24	60	60	0%	-63	-63	111 DD-S10-1090.DV	Pre-1040		DD-S10-1020, 11-May-24	
TTA Scheme/XP																
TTA-KD5-1020.	TTA Implementation - After TD02	2-Feb-24		0	100% 2-Apr-24		0	0	0%	-45	-45	447 KD1-KU-1030, KI	KD5-DC1-1020	TTA-KD5-1020.DVP01 💊		
Construction Works	I IA Implementation - After ID1a completed	17-Jan-24		0	100% 10-Apr-24		0	0	0%	-65	-65	18 PO-S10-1020.DV	SC-1230	15-1030.DVP01 💊		
UU Diversion		0.5.11 00			10001 11 0.00					10						
AW-K5-2010 Road Set Back	UU diversion planter wall demotion near Shap Pat Heung Road	25-Nov-23	22-Dec-23	24	100% 11-Dec-23	8-Mar-24	24	23	5%	-13	-60	23 AW-K5-1010	KD5-DC1-1010, S			
KD5-1000	Road set back and reinstatement - Kung Um Road near La Grove	7-Sep-23	4-Dec-23	73	100% 7-Sep-23 /	A 29-Feb-24	18	16	80%	0	-69	30 AW-K5-1010	S10-DC1-7000.D\			
Temporary Works	374											·				
KD5-BC-1070	Erection of Deck CB08 Portion 10			0	0% 28-Mar-24	29-Apr-24	24	24	0%			1 DD-1616.DVP01,	S10-DC1-5020.D\		4	
Decking DC01					,							,				
2nd Dry Season 2	3/24															
Kiu Hing Road KD5-DC1-1(Socket H - DC01 Bay 1 KH Side 13 nos (at nullah) (3d/nr. 1 rigs) - WF1	10-Jan-24	27-Feb-24	39	64.1% 9-Nov-24	24-Dec-24	39	39	0%	-247	-247	13 S10-DC1-1030.D	S10-DC1-1160.D)	4		
S10-DC1-11	Pile load test - DC01 Bay 1	24-Feb-24	22-Mar-24	24	0% 19-Feb-25	18-Mar-25	24	24	0%	-292	-292	34 KD5-DC1-1010, F	S10-DC1-1190.D	S10-	DC1-1160.DVP01, 19-Feb-	25
Decking DC01 Bay	/2			· · ·							^		<u> </u>			
Kiu Hing Road																
S10-DC1-20	Obtain contour for DC01 Bay 2	29-Dec-23	19-Jan-24	18	100% 13-Dec-23	8-Feb-24	18	1	100%	12	-17	45 S10-DC1-2010.D	KD5-DC1-2010, S		8-Feb-24	
S10-DC1-21	Site formation - DC01 B2	20-Jan-24	9-Feb-24	18	88.89% 9-Feb-24	4-Mar-24	18	18	0%	-17	-17	45 S10-DC1-2010.D	KD5-DC1-2010, S	150.DVP01, 9-Feb-24	1	
2nd Dry Season 2	3/24															
S10-DC1-30	Predrill for DC01 Bay 3 4nrs (3d/nr, 1rios) - dry season 2023 - WF2	20-Dec-23	28-Dec-23	6	100% 20-Dec-23	14-Feb-24	6	3	0%	0	-37	0 S10-DC1-3000.D	S10-DC1-3030.D		14-Feb-24	
S10-DC1-30	Obtain contour for DC01 Bay 3	29-Dec-23	19-Jan-24	18	100% 15-Feb-24	6-Mar-24	18	18	0%	-37	-37	91 S10-DC1-3010.D	KD5-DC1-3010.D		+	
Decking DC01 Bay	/4										_					
Predrill																
S10-DC1-40	Predrill Plant Mobilization for DC01 Bay 4	29-Dec-23	19-Jan-24	18	100% 15-Feb-24	6-Mar-24	18	18	0%	-37	-37	0 S10-DC1-3010.D	S10-DC1-4010.D\		-	
S10-DC1-40	Predrill DC01 Bay 4 7nrs (3d/nr, 1rigs) - dry season 2023 - WF3	20-Jan-24	20-Feb-24	24	66.67% 7-Mar-24	8-Apr-24	24	24	0%	-37	-37	0 S10-DC1-4000.D	S10-DC1-4030.D	010.DVP01, 7-Mar-24	1 4030 D\/ P01 0 Apr 24	
2nd Wet Season 2		21-Fe0-24	12-10101-24	10	0% 9-Api-24	29-Api-24	10	10	0%	-3/	-51	0 S10-DC1-4010.D	KD3-DC1-4010, K	310-00	14030.DVP01, 3-Api-24 -	
S10-DC1-404	Reinstatement after Predrill works DC01 Bay 4	13-Mar-24	13-Apr-24	24	0% 30-Apr-24	29-May-24	24	24	0%	-37	-37	0 S10-DC1-4030.D	S10-DC1-4050.RF			S10-DC1
Decking DC01 Bay 2nd Dry Season 2	7 5 3324															
Kiu Hing Road	Vertical Optima Dia 200 Unite (45 and 1) (Obtain Optima	40. Jag 04	20 100 24	40	400% 40 4m 24	20 Apr 24	40	40	0%	74	74	0 010 001 5010 0		M		
S10-DC1-50	Vertical Coring Dia. 700 Hole (15 nos.) / Obtain Contour Piling Plant Mohilization to Nullah DC01 Bay 5	10-Jan-24	30-Jan-24	18	100% 10-Apr-24 58 33% 15-Apr-25	30-Apr-24	18	18	0%	-/1	-/1	0 S10-DC1-5010.D	KD5-DC1-5010, S	S10-DC1-5020 DVP01_15-Apr-25		
KD5-DC1-5(Socket H - DC01 Bay 5 KH Side 15 nos (at nullah) (3d/nr, 1 rigs)	17-Feb-24	17-Apr-24	48	0% 3-May-25	30-Jun-25	48	48	0%	-356	-356	0 S10-DC1-5030.D	KD5-DC1-5010.D	KD5-DC1	-\$010, 3-May-25	
Decking DC01 Bay	/6															
2nd Dry Season 2	X/24															
S10-DC1-60	Predrill for DC01 Bay 6 6nrs (3d/nr, 1rigs)	10-Jan-24	30-Jan-24	18	100% 30-Nov-23	18-Dec-23	18	0	100%	32	34	S10-DC1-6000.D	S10-DC1-6030.D\	18 Dec 23 A	+	
S10-DC1-60	Vertical Coring Dia. 700 Hole (13 nos.) / Obtain Contour	31-Jan-24	23-Feb-24	18	38.89% 10-Apr-24	30-Apr-24	18	18	0%	-53	-53	0 S10-DC1-6010.D	S10-DC1-6040.RF	S10-DC1-6030.DVP01, 10-Apr-24		
S10-DC1-60	Pling Plant Mobilization to Nullah DCU1 Bay 6 - WF4	24-Feb-24	8-Mar-24	12	0% 6-Jan-25	18-Jan-25	12	12	0%	-257	-257	1/ S10-DC1-6030.D	KD5-DC1-6010, S	S1	u-DC1-6020.DVP01, 6-Jan-	10 KD5 DC1 4
Decking DC01 Bay	סטגאפרדי - ביסט ד באיז ט הרה סוגעפ דס חוטיג (אנ דועוואוזון (סט(חוד, ד דוקוג)) דער הייד ביסט ד באיז ט הרה סוגעפ דס חוטיג (אנ דועוואוזון (סט(חוד, ד דוקוג))	9-IVI81-24	2-111ay-24	42	0% 20-Jan-25	C2-16WI-20	42	42	U%	-207	-20/	23 310-DC1-0020.D	KD3-DC1-0100, K		+	NDJ-DG1-0
2nd Dry Season 2	3/24															
S10-DC1-70	Predrill Plant Mobilization for DC01 Bay 7	10-Jan-24	30-Jan-24	18	100% 23-Nov-23	29-Nov-23	18	0	100%	38	50	KD5-1000, PO-K	S10-DC1-7010.D\		4	
S10-DC1-70	Predrill for DC01 Bay 7 3nrs (3d/nr, 1rigs)	31-Jan-24	23-Feb-24	18	38.89% 30-Nov-23	18-Dec-23	18	0	100%	50	52	S10-DC1-7000.D	S10-DC1-7030.D\			- 18-Dec-2
S10-DC1-70	Vertical Coring Dia. 700 Hole (8 nos.) / Obtain Contour	24-Feb-24	15-Mar-24	18	0% 10-Apr-24	30-Apr-24	18	18	0%	-35	-35	0 S10-DC1-7010.D	KD5-DC1-7010, S		-DC1-7030.DVP01, 10-Apr-	24
S10-DC1-70	Piling Plant Mobilization to Nullah DC01 Bay 7 - WF4	16-Mar-24	22-Mar-24	6	0% 6-Jan-25	11-Jan-25	6	6	0%	-239	-239	17 S10-DC1-7030.D	KD5-DC1-7010	-		
KD5-DC1-7(Socket H - DCU1 Bay 7 KH Side 8 nos (at nullah) (3d/nr, 1 rigs)	23-Mar-24	24-Apr-24	24	0% 13-Jan-25	12-Feb-25	24	24	0%	-239	-239	17 S10-DC1-7030.D	KD5-DC1-7100, S			
Construction Works	Toos mean and protection or eacy, see pursuant to G.o. and F.o. offic. 20														<u> </u>	<u></u>
S13-1010	Protection and preservation of existing Tree	26-Apr-23	3-Mar-28	1440	16.46% 26-Apr-23	3-Mar-28	1550	1203 22	2.39%	0	0	6 CD-1020	S13-1020.DVP01			

Actual Work

Remaining Work

Critical Remaining Work 🔶

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Project Base...

Project Base...

Milestone

Data Date: 8-Feb-24 Project Start: 8 Dec 2022 Project End: 26-Apr-29 Page 6 of 6

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Date	Revision	Checked	Approved
lov-23	RP.B02 - Accepted (3-Jan-24)		
lan-24	202312 MPU		
eb-24	202401 MPU		



3-month Rolling Construction Programme of Contract 3

Data Date: 08-Feb-24

Contract No. YL/2022/01 Site Formation and Infrastructure Works for Yuen Long South First Phase Develop

Activity ID	Activity Name	Original	Remaining	Farly Start	Farly Finish	2024
	Autity Renie	Dur	Dur	Lany otart	Lany Finish	Feb Mar 14 15
Site Formatic	on and Infrastructure Works for Yuen Long Sc	2975.0	1643.0	28-Dec-22 A		
Access Date		0.0	0.0	08-Feb-24	08-Feb-24	▼ Access Date
ACD10040.10	Portion 1 (remaining)	0.0	0.0	08-Feb-24*		◆ Portion 1 (remaining)
ACD10260.10	Portion 1C (remaining)	0.0	0.0	08-Feb-24*		◆ Portion 1C (remaining)
ACD10640.60	Portion 11A (remaining)	0.0	0.0	08-Feb-24*		◆ Portion 11A (remaining)
ACD10680.30	Portion 13A (remaining)	0.0	0.0	08-Feb-24*		Portion 13A (remaining)
ACD10700.20	Portion 14A (remaining)	0.0	0.0	08-Feb-24*		◆ Portion 14A (remaining)
ACD10720.40	Portion 15A (remaining)	0.0	0.0	08-Feb-24*		◆ Portion 15A (remaining)
ACD10740	Portion 8A	0.0	0.0	08-Feb-24*		Portion 8A
ACD10760	Portion 8B	0.0	0.0	08-Feb-24*		Portion 8B
ACD10780	Portion 8C	0.0	0.0	08-Feb-24*		Portion 8C
ACD10800	Portion 8D	0.0	0.0	08-Feb-24*		Portion 8D
ACD10820	Portion 8E	0.0	0.0	08-Feb-24*		Portion 8E
Contractual C	Completion of Key Date and Section of the Works	0.0	0.0	08-Feb-24	08-Feb-24	▼ Contractual Completion of Key Date and Section of the Works
Contractual Co	ompletion of Key Date	0.0	0.0	08-Feb-24	08-Feb-24	▼ Contractual Completion of Key Date
KEY10020	KD1B-Complete GI works for drillhole YLS3-BH68~123(total 24 nos) for	0.0	0.0		08-Feb-24*	◆ KD1B-Complete GI works for drillhole YLS3-BH68~123(total 24 nos) for slip road from Yuen Long Highway westbound to LH I
Planned Com	blip road from Yuen Long Highway westbound to LH R.	1799.0	1643.0	13-Feb-23 A	07-Aug-28	
Planned Comp	letion of Key Dates	0.0	0.0	08-Feb-24	08-Feb-24	▼ Planned Completion of Key Dates
KEY10550	KD1B-Complete GI works for drillhole YLS3-BH68~123(total 24 nos) for	0.0	0.0		08-Feb-24	◆ KD1B-Complete GI works for drillhole YLS3-BH68~123(total 24 nos) for slip road from Yuen Long Highway westbound to LH
Planned Comp	slip road from Yuen Long Highway westbound to LH R.	1575.0	1464.0	28-Mar-23 A	10-Feb-28	
LOE11160	KD4-Complete all necessary works to facilitate laying of CLP cables from	585.0	469.0	22-Sep-23 A	21-May-25	
LOE11180	TYST to LH Road via footbath and cvcle track KD5-Complete all necessary works for opening of road connecting	768.0	813.0	23-Sep-23 A	30-Apr-26	
LOE11200	existing YL Highway westbound to existing LH and SH Road KD6-Complete all necessary works for opening of road connecting	800.0	820.0	22-Aug-23 A	07-May-26	
LOE11220	existing LH and SH Road to existing YL Highway westbound KD7-Complete all necessary works for opening of road connecting YL	1242.0	1170.0	06-Sep-23 A	22-Apr-27	
LOE11240	Highwav eastbound to existing LT Road northbound KD8-Complete all necessary works for opening of road connecting LT	1008.0	895.0	28-Mar-23 A	21-Jul-26	
LOE11280	Road southbound to YL highway eastbound KD10-Complete all necessary works for opening of road connecting	1545.0	1464.0	06-Sep-23 A	10-Feb-28	
Planned Comn	existing YL Highway eastbound to LH Road	1799.0	1643.0	13-Feb-23 A	07-Aua-28	
LOE11340	Section 1-Completion of all works including piling works within Portions	1643.0	1643.0	08-Feb-24	07-Aug-28	
LOE11360	1.1A.1B.1C.1D.1E.2.3.4A.5A.5B.6A and 6B Section 2-Completion of all works within Portions 10 and 10A of the Site	492.0	397.0	04-Aug-23 A	10-Mar-25	
LOE11380	Section 3-Completion of all works within Portions 8A 9A 14 and 14A of	920.0	797.0	01-Sep-23 A	14-Apr-26	
LOE11400	the Site Section 4-Completion of all works within Portions 8E 15 and 15A of the	916.0	755.0	07-Jul-23 A	03-Mar-26	
LOE11420	Site Section 5-Completion of all works within Portions 16, 16A, 16B, 16C, and	914.0	636.0	13-Feb-23 A	04-Nov-25	
LOE11440	16D of the Site Section 6-Completion of all works within Portions 8C 8D 11 11A of the	1142.0	1087.0	14-Aug-23 A	29-Jan-27	
LOE11460	Site and the works at TYST Road within Portion 1 Section 7-Completion of all works within Portions 8B 9B 13 and 13A of	662.0	521.0	05-Oct-23 A	12-Jul-25	
LOE11480	the Site Section & Completion of all works within Portions 12 and 12A of the Site	422.0	181.0	04-Sen-23 A	06-Aug-24	
LOE11500	Section 9-Completion of all works within Portions 5C 7 7A 7B 7C and	916.0	748.0	28-Apr-23 A	24-Feb-26	
LOE11560	7D of the Site Section 12-Comprises all preservation and protection of existing trees	1799.0	1643.0	26-Feb-23 A	07-Aug-28	
LOE11580	Section 12 Comprises all of the landscape softworks	1799.0	1643.0	26-Feb-23 A	07-Aug-28	
Duelineire		925.0	156.0	28-Dec-22 A	12-lul-24	
Preliminaries,	, Constractor's Design, Method Statement Subm	247.0	25.0	28 Dec 22 A	12 Mar 04	Cenaral Submission
General Submi	ISSION	347.0	35.0	28-Dec-22 A	13-IVIAF-24	Submission of RIM Model (PS 1.116A)
GSS10240		60.0	13.0	28-Dec-22 A	20-Feb-24	
GSS10320	Submission or details or proposed off-site precast yard (PS 1.118)	30.0	30.0	Uŏ-Feb-24	13-Mar-24	
Contractor's D	esign Submission and Approval	299.0	112.0	16-Jul-23 A	29-May-24	
Contractor's Pe	rmanent Works Design	299.0	112.0	16-Jul-23 A	29-May-24	

中國路橋工程有限責任公司

CHINA ROAD AND BRIDGE CORPORATION

Actual Work

Critical Activity

Non-Critical Activity

Milestone

Summary

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土木工程拓展署 Civil Engineering and Development Department



ment - Contract 3								
Apr 16	May 17							
rard (PS 1 118)								

Three Month Rolling Programme (Feb 2024 - May 2024)

Data Date: 08-Feb-24 (sheet 1 of 11) Data Date: 08-Feb-24

Contract No. YL/2022/01 Site Formation and Infrastructure Works for Yuen Long South First Phase Develop

tivity ID	Activity Name	Original	Remaining	Early Start	Early Finish		2024
		Dur	Dur				Feb Mar 14 15
Design for the R	load Lighting System	42.0	42.0	18-Apr-24	29-May-24		
PRE10040	Prepare and submit design for the road lighting system	42.0	42.0	18-Apr-24	29-May-24		
Cost Savings De	esign (CSD)	277.0	86.0	16-Jul-23 A	03-May-24		
CSD-001 - Nulla	h Decking	14.0	0.0	16-Jan-24 A	08-Feb-24		▼ CSD-001 - Nullah Decking
PRE10420.98	Review and Acceptance for Geotechnical Assessment Report	14.0	0.0	16-Jan-24 A	08-Feb-24	_	Review and Acceptance for Geotechnical Assessment Report
CSD-002 - Cant	iliever Footpath	157.0	28.0	06-Sep-23 A	06-Mar-24		CSD-002 - Cantiliever Footpath
DRE10400.50		30.0	7.0	06 Son 23 A	14 Eeb 24		Incornorate and resubmit CSD DD
FILE 10400.30		50.0	7.0	00-3ep-23 A	14-1 60-24	_	
PRE10400.70	Review and Acceptance	21.0	21.0	15-Feb-24	06-Mar-24		Review and Acceptance
PRE10400.95	Review and Acceptance for Geotechnical Assessment Report	14.0	1.0	07-Nov-23 A	08-Feb-24		Review and Acceptance for Geotechnical Assessment Report
CSD-003 - Bridg	ge Decking	277.0	86.0	16-Jul-23 A	03-May-24		
Bridge C & F		273.0	86.0	16-Jul-23 A	03-May-24		
PRE10200.10	Prepare & Submit CSD DDA Report for Deck of Bridge C & F	84.0	14.0	16-Jul-23 A	21-Feb-24		Prepare & Submit CSD DDA Report for Deck of Bridge C & F
PRE10200.20	Review and Comments	21.0	21.0	22-Feb-24	13-Mar-24	_	Review and Comments
PRE10200 30	Incorporate and resubmit CSD DD	30.0	30.0	14-Mar-24	12_Apr-24	_	
FRE 10200.00		00.0	00.0	14-10101-24	12-Api-24	_	
PRE10200.40	Review and Acceptance	21.0	21.0	13-Apr-24	03-May-24		
Bridge B, D, E &	kG	60.0	30.0	29-Jan-24 A	08-Mar-24		▼ Bridge B, D, E & G
PRE10380.70	Review and Acceptance	60.0	30.0	29-Jan-24 A	08-Mar-24		Review and Acceptance
MajorTemproa	ry Design	228.0	71.0	09-Aug-23 A	30-Apr-24		
Drainage Impac	t Assessment (DIA)	21.0	6.0	01-Feb-24 A	14-Feb-24		Drainage Impact Assessment (DIA)
PRE11860	Review and accept DIA of Box Culvert BC02. Bridge B and Bridge D	21.0	6.0	01-Feb-24 A	14-Feb-24		Review and accept DIA of Box Culvert BC02, Bridge B and Bridge D
ELS Decign for		85.0	27.0	02 Dec 23 A	00 Mar 24		FLS Design for Box Culvert BC02
ELS Design for		00.0	21.0	02-Dec-23A			Denotes and submit ELC Design for construction of Day Out of DC00
PRE11720	Prepare and submit ELS Design for construction of Box Culvert BC02	21.0	6.0	02-Dec-23 A	14-Feb-24	_	Prepare and submit ELS Design of construction of box Cuivert BC02
PRE11780	Review and accept ELS Design of Box Culvert BC02	21.0	21.0	15-Feb-24	09-Mar-24		Review and accept ELS Design of Box Culvert BC02
ELS Design for	Construction of Bridge Foundation	42.0	42.0	08-Feb-24	27-Mar-24		▼ ELS Design for 0
PRE10100	Prepare and submit ELS Design for construction of bridge foundation	21.0	21.0	08-Feb-24	02-Mar-24		Prepare and submit ELS Design for construction of bridge foundation
PRE10110	Review and accept ELS Design for construction of bridge foundation	21.0	21.0	04-Mar-24	27-Mar-24	_	Review and acc
ELS Design for	Construction of Noise Barrier Foundation	228.0	71.0	09-Aug-23 A	30-Apr-24		
PRF10120	Prepare and submit FLS Design for construction of noise barrier	42.0	15.0	09-Aug-23 A	24-Feb-24		Prepare and submit ELS Design for construction of noise barrier foundation
DDE10122	foundation	21.0	21.0	26 Eab 24	20 Mar 24	_	Review and discuss ELS Design
FILE 10122	foundation	21.0	21.0	20-1 60-24	20-11/12/-24		
PRE10125	Resubmit ELS Design for construction of noise barrier foundation	21.0	21.0	21-Mar-24	13-Apr-24		
PRE10130	Review and accept ELS Design for construction of noise barrier foundation	14.0	14.0	15-Apr-24	30-Apr-24		
ELS Design for	for Construction of Nullah Decking Pile Cap	138.0	33.0	11-Nov-23 A	16-Mar-24		▼ ELS Design for for Construction of Nullah
PRE11570	Prepare and resubmit ELS Design for for Construction of Nullah Decking	12.0	12.0	11-Nov-23 A	21-Feb-24		Prepare and resubmit ELS Design for for Construction of Nullah Decking Pile Cap
PRE11600	Pile Cap Review and accept ELS Design for Construction of Nullah Decking Pile	21.0	21.0	22-Feb-24	16-Mar-24	_	Review and accept ELS Design for Cons
Design of Temp	Cap orary Piling Platform for Nullah Decking ND2 South End	80.0	15.0	03-Oct-23 A	24-Feb-24		Design of Temporary Piling Platform for Nullah Decking ND2 South End
PRE11650	Result in the sign of Temporary Piling Platform for Nullah Decking ND2	14.0	1.0	03-Oct-23 A	08-Eeb-24		Resubmit Design of Temporary Piling Platform for Nullah Decking ND2 South End
	South End	14.0	1.0	00-00-207			Paview and accent El S Design of Temporary Diling Platform for Nullah Decking ND2 So
PRE11660	Review and accept ELS Design of Temporary Pilling Platform for Nullan Decking ND2 South End	14.0	14.0	09-Feb-24	24-Feb-24		
Method State	nent Submission and Approval for Major Construction	372.0	92.0	07-Aug-23 A	24-May-24		
Method Statem	ent for Construction of Box Culvert BC02	125.0	20.0	13-Dec-23 A	01-Mar-24		Method Statement for Construction of Box Culvert BC02
MSS10920	Resubmit method statement of Box Culvert BC02	14.0	6.0	13-Dec-23 A	14-Feb-24		Resubmit method statement of Box Culvert BC02
MSS10940	Accept method statement of Box Culvert BC02	14.0	14.0	15-Feb-24	01-Mar-24	-	Accept method statement of Box Culvert BC02
Method Statem	ent Submission and Approval for Construction of Retaining Wa	303.0	23.0	07-Aug-23 A	05-Mar-24		Method Statement Submission and Approval for Construction of R
MSS10620	Prepare and submit method statement for construction of retaining wall	21.0	20	07-Aug-23 A	09-Feb-24		Prepare and submit method statement for construction of retaining wall RW37
MSS10620	RW37 RW37	21.0	2.0	10 Eab 24	05 Mar 24		Review discuss and annoval for mathod statement for construction
10030	review, uscuss and approval for method statement for construction of retaining wall RW37	21.0	21.0	iu-reb-24	uo-iviar-24		
Method Statem	ent Submission and Approval for bridge A and Slip Road	185.0	80.0	11-Sep-23 A	10-May-24		





中國路德工程有限責任公司 CHINA ROAD AND BRIDGE CORPORATION

Actual Work Non-Critical Activity Critical Activity

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Milestone

Summary

Three Month R

oment - Contract 3	
Apr 46	May
10	17
	Cost Savings Desig
	CSD-003 - Bridge D
	Bridge C & F
	5
Incorporate and resubmit CSD DD	
	Review and Accept
	MajorTemproan/ Design
	Major remproary Design
postruction of Bridge Foundation	
instruction of bridge roundation	
t ELS Design for construction of bridge foundation	
	ELS Design for Construction
or construction of noise barrier foundation	
Resubmit FLS Design for construction	of noise barrier foundation
	Review and accept ELS D
ecking Pile Cap	
iction of Nullah Decking Pile Cap	
a End	
TENG	
aining Wall RW37	
-	
or retaining wall RVV37	
	▼ Met
olling Programme (Feb 2024 - Ma	ay 2024)
Data Date: 08-Feb-24	- /
(sheet 2 of 11)	

		01 31	ег	Jinalio	in anu n	initiastructure works for ruen Long South rist Flase Deve	eiop
Activity ID	Activity Name	Original Dur	Remaining Dur	Early Start	Early Finish	2024 Feb Mar 14 15	
MSS10020	Prepare and submit method statement for bridge A and slip road	48.0	24.0	11-Sep-23 A	06-Mar-24	Prepare and submit method statement for bridge A and slip	ip road
MSS10022	Review and discuss method statement for bridge A and slip road	21.0	21.0	07-Mar-24	30-Mar-24	A Rev	eview and
MSS10025	Resubmit method statement for bridge A and slip road	21.0	21.0	01-Apr-24	24-Apr-24		
MSS10030	Accept method statement for bridge A and slip road	14.0	14.0	25-Apr-24	10-May-24	4	
Method Statem	ent for ELS Installation for Construction of Box Culvert BC01	14.0	0.0	05-Feb-24 A	05-Feb-24 A	A ▼ Method Statement for ELS Installation for Construction of Box Culvert BC01	
MSS10570	Accept method statement for ELS of Box Culvert BC01	14.0	0.0	05-Feb-24 A	05-Feb-24 A	A A Accept method statement for ELS of Box Culvert BC01	
Method Statem	ent Submission and Approval for Construction of Nullah Decki	42.0	42.0	08-Feb-24	27-Mar-24	t v v Method St	Statement
MSS10040	Prepare and submit method statement for construction of Nullah Decking	21.0	21.0	08-Feb-24	02-Mar-24	Prepare and submit method statement for construction of Nullah De	ecking
MSS10050	Accept method statement for construction of Nullah Decking	21.0	21.0	04-Mar-24	27-Mar-24	4 Accept me	ethod sta
Method statem	ent submission and approval for bridge B	84.0	84.0	08-Feb-24	15-May-24	1 · · · · · · · · · · · · · · · · · · ·	
MSS10100	Prepare and submit method statement for bridge B	42.0	42.0	08-Feb-24	27-Mar-24	1 Prepare al	and subm
MSS10102	Review and discuss submission for bridge B	21.0	21.0	28-Mar-24	20-Apr-24		
MSS10105	Resubmit submission for bridge B	21.0	21.0	22-Apr-24	15-May-24	4	
Method statem	ent submission and approval for construction of U-trough	35.0	35.0	08-Feb-24	19-Mar-24	1	ion and a
MSS10120	Prepare and submit method statement for construction of U-trough	14.0	14.0	08-Feb-24	23-Feb-24	Prepare and submit method statement for construction of U-trough	
MSS10470	Accept method statement for construction of U-trough	21.0	21.0	24-Feb-24	19-Mar-24	4 Accept method statement for	or constru
Method statem	ent submission and approval for drainage works	77.0	77.0	08-Feb-24	07-May-24	4 · · · · · · · · · · · · · · · · · · ·	
MSS10140	Prepare and submit method statement for drainage works	21.0	21.0	08-Feb-24	02-Mar-24	Prepare and submit method statement for drainage works	
MSS10142	Review and discuss submission for drainage works	21.0	21.0	04-Mar-24	27-Mar-24	t Review an	nd discus
MSS10145	Resubmit method statement for drainage works	21.0	21.0	28-Mar-24	20-Apr-24		
MSS10150	Accept method statement for drainage works	14.0	14.0	22-Apr-24	07-May-24	4	
Method statem	ent submission and approval for RTBM construction	21.0	14.0	04-Jan-24 A	23-Feb-24	Method statement submission and approval for RTBM construction	
MSS10170	Accept method statement for RTBM construction	21.0	14.0	04-Jan-24 A	23-Feb-24	Accept method statement for RTBM construction	
Method statem	ent submission and approval for waterworks	33.0	33.0	08-Feb-24	16-Mar-24	Method statement submission and	l approva
MSS10180	Prepare and submit method statement for waterworks	12.0	12.0	08-Feb-24	21-Feb-24	Prepare and submit method statement for waterworks	
MSS10188	Accept method statement for waterworks	21.0	21.0	22-Feb-24	16-Mar-24	4 Accept method statement for water	rworks
Method statem	ent submission and approval for construction of subway	30.0	30.0	08-Feb-24	13-Mar-24	↓ Method statement submission and approv	val for co
MSS10190	Prepare and submit method statement for construction of subway	12.0	12.0	08-Feb-24	21-Feb-24	Prepare and submit method statement for construction of subway	
MSS10198	Accept method statement for construction of subway	21.0	21.0	19-Feb-24	13-Mar-24	4 Accept method statement for construction	n of subw
Method statem	ent submission and approval for construction of noise barrier	45.0	45.0	22-Mar-24	13-May-24	4	
MSS10200	Prepare and submit method statement for construction of noise barrier	12.0	12.0	22-Mar-24	04-Apr-24		
MSS10202	Review and discuss method statement for construction of noise barrier	21.0	21.0	05-Apr-24	29-Apr-24		•
MSS10205	Resubmit method statement for construction of noise barrier	12.0	12.0	30-Apr-24	13-May-24	4	
Method statem	ent submission and approval for bridge D	77.0	77.0	08-Feb-24	07-Mav-24	4	
MSS10220	Prepare and submit method statement for bridge D	21.0	21.0	08-Feb-24	02-Mar-24	Prepare and submit method statement for bridge D	
MSS10222	Review and discuss method statement for bridge D	21.0	21.0	04-Mar-24	27-Mar-24	t Review ar	nd discus
MSS10225	Resubmit method statement for bridge D	21.0	21.0	28-Mar-24	20-Apr-24		
MSS10220	Accent method statement for bridge D	14.0	14.0	22-Apr-24	07-May-24		
Method eteter		35.0	35.0	08-Feb-24	19-Mar-24	Method statement submissio	ion and a
	eric submitission and approval for bridge F	14 0	14.0	08-Feb-24	23-Feb-24	Prepare and submit method statement for bridge F	
MSS10240	Accent method statement for bridge F	21.0	21.0	24_Eah 24	10_Mar 24	Accent method statement to	or bridge
Method 10200	record and an and an and the states of the s	21.0	21.0	27-1 CU-24	24-May 24		
	erit suomission and approval for bridge G	21.0	21.0	20-1 CD-24	27-1viay-24	Prenare and submit methr	od stater
MSS10200	Pouriou and discuss mathed atatempat for bridge C	21.0	21.0	20-FED-24	12 Apr 24		
MSS10202	Resubmit method statement for bridge C	21.0	21.0	2 1-1Vial-24	08. May 24		
10200	Nesabilit metriou statement IOI DiNUye G	21.0	∠1.U	1 0-74 µ1-24	00-111ay-24	*	





中國路橋工程有限責任公司 CHINA ROAD AND BRIDGE CORPORATION Actual Work
 Non-Critical Activity
 Critical Activity

Milestone

Summary

Three Month R

oment - Contract 3			
Apr		May	
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d discuss method statement for bridge A and s	slip road		
	Posubmit me	thad statement f	or bridge A
	Resubmitme		
			Acc
t Submission and Approval for Construction o	f Nullah Decki	ing	
atement for construction of Nullah Decking			
nit method statement for bridge B			
Review a	and discuss su	ubmission for brid	lge B
pproval for construction of U-trough			
uction of U-trough			
·· · · · · · ····			Mothod at
		•	vietrioù sta
ss submission for drainage works			
Resubm	it method state	ement for draina	ge works
			Accept me
al for waterworks			
nstruction of subway			
201			
Prepare and submit method statement for co	nstruction of n	oise barrier	
	Re	eview and discus	s method
	-		
			Method sta
ss method statement for bridge D			
Booubm	it mothod atot	amont for bridge	
Resubin	il metrou stat	ementior bridge	D
		,	Accept me
pproval for bridge F			
F			
ment for bridge G			
Review and discuss met	hod statemen	t for bridge C	
		LIOI DIIUGE G	
			Resubm
olling Programme (Feb 20	024 - Ma	ny 2024)	
Data Date: 08-Feb-24			
(sheet 3 of 11)			

Activity ID	Activity Name	Original Dur	Remaining Dur	Early Start	Early Finish		Feb	8024 Mar 15	
MSS10270	Accept method statement for bridge G	14.0	14.0	09-May-24	24-May-24		14	15	
Method statem	nent submission and approval for bridge E	63.0	63.0	08-Mar-24	20-May-24			•	
MSS10280	Prepare and submit method statement for bridge E	21.0	21.0	08-Mar-24	01-Apr-24				Prepa
MSS10282	Review and discuss method statement for bridge E	21.0	21.0	02-Apr-24	25-Apr-24	-			
MSS10285	Resubmit method statement for bridge E	21.0	21.0	26-Apr-24	20-May-24	-			
Method statem	nent submission and approval for construction of Cantilever Foc	63.0	63.0	07-Mar-24	18-May-24			·	
MSS10300	Prepare and submit method statement for construction of cantilever footnath	21.0	21.0	07-Mar-24	30-Mar-24				Prepare an
MSS10302	Review and discuss method statement for construction of cantilever footnath	21.0	21.0	01-Apr-24	24-Apr-24				
MSS10305	Resubmit method statement for construction of cantilever footpath	21.0	21.0	25-Apr-24	18-May-24				
Method statem	nent submission and approval for road pavement works	63.0	63.0	13-Mar-24	24-May-24			•	
MSS10320	Prepare and submit method statement for road pavement works	21.0	21.0	13-Mar-24	05-Apr-24				
MSS10322	Review and discuss method statement for road pavement works	21.0	21.0	06-Apr-24	30-Apr-24				
MSS10325	Resubmit method statement for road pavement works	21.0	21.0	01-May-24	24-May-24				
Method statem	ent submission and approval for slope works	77.0	77.0	08-Feb-24	07-May-24		v		
MSS10360	Prepare and submit method statement for slope works	21.0	21.0	08-Feb-24	02-Mar-24			Prepare and submit method statement for slope works	
MSS10362	Review and discuss method statement for slope works	21.0	21.0	04-Mar-24	27-Mar-24			Review	and discu
MSS10365	Resubmit method statement for slope works	21.0	21.0	28-Mar-24	20-Apr-24				
MSS10370	Accept method statement for slope works	14.0	14.0	22-Apr-24	07-May-24				
Method statem	nent submission and approval for construction of underpass	162.0	31.0	29-Sep-23 A	14-Mar-24			Method statement submission and a	pproval for
MSS10340	Prepare and submit method statement for construction of underpass	21.0	10.0	29-Sep-23 A	19-Feb-24	_	Prepare and submit	method statement for construction of underpass	
MSS10350	Accept method statement for construction of underpass	21.0	21.0	20-Feb-24	14-Mar-24			Accept method statement for constru	iction of un
Preliminaries		213.0	60.0	08-Aug-23 A	07-Apr-24				
PRE10230	Set up of the contract webpage	60.0	60.0	08-Feb-24	07-Apr-24				
PRE10270	Submission of Contamination Assessment Plan and Remediation Action Plan (PS 1.108B(v))	30.0	2.0	08-Aug-23 A	09-Feb-24		Submission of Contamination Assessment	Plan and Remediation Action Plan (PS 1.108B(y))	
Traffic Manag	yement	295.0	110.0	18-Nov-23 A	27-May-24		_		
PRE11880	Preparation, submission and approval of TTA scheme (TMLG No.4)	60.0	20.0	18-Nov-23 A	27-Feb-24		Р	reparation, submission and approval of TIA scheme (TMLG No.4)	
PRE11900	Preparation, submission and approval of TTA scheme (TMLG No.5)	90.0	90.0	28-Feb-24	27-May-24		-		
Precasting W	/orks	60.0	60.0	04-May-24	12-Jul-24				
PRE10340	Setup of off-site precast yard	60.0	60.0	04-May-24	12-Jul-24				
Subletting We	orks	742.0	60.0	25-May-23 A	17-Apr-24				
PRE11220	Bridge structure for bridges A~G	60.0	60.0	08-Feb-24	17-Apr-24				
PRE11225	R.C structure other than bridges	60.0	33.0	25-May-23 A	16-Mar-24		Matarwork	R.C structure other than bloges	
PRE11240	Waterwork	40.0	8.0	24-Jul-23 A	16-Feb-24	_	Waterwork	Slope work	
PRE11320	Stope works	40.0	40.0	08-Feb-24	25-Mar-24	_		Stope works	ite and na
PRE11345	Steel structure and panels for hoise barriers and hoise closures	40.0	40.0	08-FeD-24	25-Mar-24			Road works	ite anu pai
PRE11360	Road works	40.0	40.0	08-FeD-24	25-IVIAF-24				
PRE11400	E&IVI WORKS	022.0	260.0	06 Feb 22 A	17-Apr-24				
Section 1 of	the Works-Completion of All works Including Pili	932.0	200.0	00-FeD-23 A			Reportion Works		
Preparation V	Vorks	90.0	6.0	06-Feb-23 A	17-Feb-24				
SEC011020	Erection of noarding	90.0	6.0	23-Mar-23 A	17-Feb-24		Election of hoarding		
SEC011040	UU detection and trial pit	28.0	0.0	06-Feb-23 A	08-Feb-24			Trial Dile for Deshared U Dile	
Trial Pile for I	Prebored H-Pile	72.0	28.0	15-Dec-23 A	14-Mar-24			Trial Pile for pre-bored H piles and Loading Test (TD640.02.02)	
SECA1014	Inal mile for pre-bored m-piles and Loading Test (TP610-02,03)	48.0	16.0	15-Dec-23 A	29-FeD-24				
SECATUTO		12.0	140.0		14-IVIar-24				
Bridge A		227.0	112.0	00-Sep-23 A	20-Jun-24				
CEDD	土木工程拓展署 Civil Engineering and Development Department	百路格 A ROAE	高工 AND	程 有限 BRIDGE (責任公 CORPORAT		Actual Work Non-Critical Activity Critical Activity	 ♦ Milestone Three Mo Summary 	onth R

oment - Contract 3	
Apr	May
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e and submit method statement for bridge E	
Review an	d discuss method statemer
d submit method statement for construction of cantilever for	ootnath
Review and	discuss method statement f
Prepare and submit method statement for road paveme	nt works
	Review and discuss method
	Method sta
ss method statement for slope works	
Resubmit method sta	ement for slope works
	Accept me
construction of underpass	
derpass	
Preliminaries	
Set up of the contract webpage	
	+
Subletting Works	
Bridge structure for bridges A	~G
5 5	-
iels for noise barriers and noise closures	
E&M works	
	ary 2024)
oning Programme (Feb 2024 - Ma	ay 2024)
Data Date: 08-Feb-24	
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Data Date: 08-Feb-24

Contract No. YL/2022/01 Site Formation and Infrastructure Works for Yuen Long South First Phase Develop

ctivity ID	Activity Name	Original	Remaining Early Start	Early Finish	2024
Dronovetion W/		73.0	16.0 06-Sep-23.4	20-Eeb-24	14 Preparation Works
	orks	72.0	16.0 06 Sep 23 A	201 CD 24	Prenaration Works
	Construction of temporary and track and implementation of TTA	14.0	10.0 00-Sep-23 A	23-1 eb-24	
SECA10000		20.0	10.0 00-Sep-23 A	22-Feb-24	
SECA10020		30.0	10.0 12-Sep-23 A	29-Feb-24	Additional LIL I detection and trial hit (PMI No. 017 and 026)
SECA10025	Additional UU detection and trial pit (Pivil No. 017 and 026)	73.0	5.0 16-Oct-23 A	16-FeD-24	
Utility Diversio		218.0	112.0 27-Oct-23 A	28-Jun-24	
SECA10040	Installation of sheetpile	22.0	22.0 17-Feb-24	13-Mar-24	Installation of sheetpile
SECA10060	Excavation for diversion of gas main	15.0	15.0 14-Mar-24	03-Apr-24	
SECA10080	Diversion of gas main	70.0	70.0 05-Apr-24	28-Jun-24	
SECA10085	CLP Trench Excavation by CRBC	77.0	77.0 14-Mar-24	19-Jun-24	
SECA10090	CLP preparation works incl. budget approval and material procurement	218.0	89.0 27-Oct-23 A	31-May-24	
Pre-drilling Wo	orks	24.0	10.0 11-Nov-23 A	22-Feb-24	Pre-drilling Works
SECA10160	Pre-drilling works (11 nos, 1rig, 4day/rig/hole)	24.0	10.0 11-Nov-23 A	22-Feb-24	Pre-drilling works (11 nos, 1rig, 4day/rig/hole)
Bridge B		494.0	149.0 28-Mar-23 A	12-Aug-24	
Preparation Wo	orks	27.0	21.0 28-Mar-23 A	06-Mar-24	Preparation Works
SECB10000	Site clearance & tree felling works along Lam Yu Rd (affected by updated	27.0	21.0 28-Mar-23 A	06-Mar-24	Site clearance &tree felling works along Lam Yu Rd (affected by
Utility Diversio	site boundary with a letter dated 5 Feb 24)	265.0	149.0 05-Sep-23 A	12-Aug-24	
SECB10020	UU detection and trial pit (affected by updated site boundary with a letter	15.0	10.0 05-Sep-23 A	15-Mar-24	UU detection and trial pit (affected by updat
SECB10040	dated 5 Feb) Diversion of existing gas main near Piers B1 (affected by the updated site	60.0	60.0 20-Mar-24	04-Jun-24	
SECB10065	boundary NCE No. 016) CLP preparation works incl. budget approval and material procurement	218.0	89.0 27-Oct-23 A	31-May-24	
SECB10080	by others Diversion of CLP and HKT cables (affected by the updated site boundary	120.0	120.0 16-Mar-24	12-Aug-24	
Demolition Wo	NCE No. 016))	58.0	30.0 29-Jan-24 A	24-Apr-24	
SECB10120	Demolition of existing structure near Lam Yu Road	30.0	30.0 16-Mar-24	24-Apr-24	
SECB10140	Demolition of existing footbridge NF36	28.0	0.0 29-Jan-24 A	05-Feb-24 A	A Emplition of existing footbridge NF36
Pre-drilling Wo	arke	226.0	32.0 01-Nov-23 A	19-Mar-24	▼ Pre-drilling Works
SECB11020	Pre-drilling works for pier B2 (2pos 1rig 4day/rig/hole)	80	8.0 01-Mar-24	09-Mar-24	Pre-drilling works for pier B2 (2nos, 1rig, 4dav/rig/hole)
SECB11040	Pre-drilling works for pier B1 (2nos, 1rig, 1day/rig/hole)	8.0	8.0 11-Mar-24	10-Mar-24	Pre-drilling works for pier B1 (2nor
SECB11040	Pro drilling works for pior B3(4 pos) in the dry season (4 pos 1 rig	16.0	16.0 22 Jon 24.4	20 Eob 24	Pre-drilling works for pier B3(4 nos) in the dry season (4 nos 1 rig 4 day/rig/h
SECB11100	4 day/rig/hole) (revised to 3 nos)	8.0	8.0 01 Nov 22 A	20 Eab 24	Pre-drilling works at nortal B4/2 nos) (2nos 1rig. 4dav/rig/hole)
SECETITIO	Pre-unining works at portal b4(2 nos) (2nos, mg, 40ay/ng/nole)	500.0	0.0 01-N0V-23 A	20-1 eb-24	
Bridge D	-	520.0	121.0 23-Sep-23 A	07-Jun-24	
Demolition Wo		32.0	20.0 14-Oct-23 A	05-Mar-24	Demolition of ovicting buildings (1665m2) and pairs barriet
SECD10000	Demolition of existing buildings (1655m2) and noise barrier	32.0	20.0 14-Oct-23 A	05-Mar-24	
Land Contamir	nation Works	86.0	31.0 23-Sep-23 A	09-Mar-24	
SECD10040		15.0	6.0 23-Sep-23 A	17-Feb-24	
SECD10055	Land decontamination assessment approval by EPD	14.0	14.0 18-Feb-24	02-Mar-24	
SECD10060	Land decontamination works (10150m3)	6.0	6.0 04-Mar-24	09-Mar-24	Land decontamination works (10150m3)
Utility Protection	on / Diversion	75.0	75.0 06-Mar-24	07-Jun-24	
SECD10180	Trial Pit to locate UU	15.0	15.0 06-Mar-24	22-Mar-24	Trial Pit to locate UU
SECD10200	Utility Protection, Shifting and/or diversion	60.0	60.0 23-Mar-24	07-Jun-24	
Pre-drilling Wo	orks and Piling Work	93.0	10.0 23-Dec-23 A	22-Feb-24	✓ Pre-drilling Works and Piling Work
Construction of	f Bored Piles for Pier D5, Abutment D2, Piers D2 & D3	20.0	10.0 15-Jan-24 A	22-Feb-24	Construction of Bored Piles for Pier D5, Abutment D2, Piers D2 & D3
SECD11120	Pre-drilling works (4 nos) for Piers D2 & D3	20.0	10.0 15-Jan-24 A	22-Feb-24	Pre-drilling works (4 nos) for Piers D2 & D3
Construction of	f Bored Piles for Piers D1, D4 and Abutment D1	10.0	10.0 23-Dec-23 A	22-Feb-24	Construction of Bored Piles for Piers D1, D4 and Abutment D1
SECD11260	Pre-drilling works (4 nos) for Piers D1 & D4	10.0	10.0 23-Dec-23 A	22-Feb-24	Pre-drilling works (4 nos) for Piers D1 & D4
Bridge F&G		287.0	183.0 08-Jun-23 A	08-Aug-24	
CEDD	土木工程拓展署 Civil Engineering and Development Department	国 西谷 有 A ROAI	倉工程有限 D AND BRIDGE (責任·2	▲ Actual Work ◆ Milestone Three Month ▲ Non-Critical Activity ✓ Summary ATION Critical Activity ✓ Critical Activity

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16	17							
cavation for diversion of gas main								
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bdated site boundary with a letter dated 5 Feb 24)								
site boundary with a letter dated 5 Feb)								
Demolition V	Vorks							
	Foviating attracture poor Lon							
Demonuorio	existing structure near Lan							
ing, 4day/ng/hole)								
) (revised to 3 nos)								
Kolling Programme (Feb 2024 - Ma	ay 2024)							
Data Date: 08-Feb-24								
(sheet 5 of 11)								

Data Date: 0	Data Date: 08-Feb-24 Contract No. YL/2022/01 Site Formation and Infrastructure Works for Yuen Long South First Phase Develop							
Activity ID	Activity Name	Original Dur	Remaining Dur	Early Start	Early Finish	Eeb Mar 14 15		
Land Contami	ination Works	0.0	0.0	08-Feb-24	08-Feb-24	4 ▼ Land Contamination Works		
SECFG1060	Environmental ground investigation (N.A)	0.0	0.0	08-Feb-24	08-Feb-24	I Environmental ground investigation (N.A)		
SECFG1080	Land decontamination works (4836 m3)(N.A)	0.0	0.0	08-Feb-24	08-Feb-24	4 I Land decontamination works (4836 m3)(N.A)		
Cycle Track C	T02 and Footpath	218.0	89.0	27-Oct-23 A	31-May-24	4		
Utilities Works	Along Cycle Track CT02 and Footpath	218.0	89.0	27-Oct-23 A	31-May-24	4		
SEC9505	CLP preparation works incl. budget approval, material procurement &	218.0	89.0	27-Oct-23 A	31-May-24	4		
Bridge F	existing concrete breaking by others	172.0	183.0	08-Jun-23 A	08-Aug-24	4		
Pre-drilling Wo	rks	32.0	24.0	08-Jun-23 A	09-Mar-24	4 Pre-drilling Works		
SECF10020	Pre-drilling works for abutment FG1(8 nos) (revised to 12 nos) / 2 rigs	32.0	24.0	08-Jun-23 A	09-Mar-24	4 Pre-drilling works for abutment FG1(8 nos) (revised to	io 12 nc	
Piling Works		172.0	183.0	08-Jan-24 A	08-Aug-24	4		
SECF10058	Design Verification by AECOM	14.0	7.0	08-Jan-24 A	14-Feb-24	4 Design Verification by AECOM		
SECF10060	Installation of bored piles for abutment F2(4 nos)	28.0	28.0	22-Mar-24	27-Apr-24	4		
SECF10080	Installation of bored piles for pier F1 and F2(4 nos)	28.0	28.0	19-Feb-24	21-Mar-24	4 Installation of bored piles	for pier	
SECF10100	Installation of bored piles for abutment FG1 (12 nos)	84.0	84.0	29-Apr-24	08-Aug-24	4		
Pilecan	······································	26.0	26.0	29-Apr-24	30-May-24			
SECE10120	Installation of cheatrile, excavation, nilehead treatment and construction	26.0	26.0	20-Apr-24	30-May-24			
Dida 0	of pile cap for Abutment F2	120.0	41.0	04 Jon 24 A	10 Mar 24	Bridge G		
Bridge G		120.0	41.0	04 Jan 04 A	10-Mar 04	Construction of Abutment G1	- Pior (
Construction o	f Abutment G1 - Pier G3	120.0	41.0	04-Jan-24 A	19-Mar-24			
Pre-drilling Wo		32.0	32.0	04-Jan-24 A	19-Mar-24	Pre-uning works	to Diar	
SECG10100	Pre-drilling works for Pier G1 to Pier G3 (6 nos)	32.0	32.0	04-Jan-24 A	19-Mar-24		to Pier	
Piling Works		49.0	41.0	31-Jan-24 A	19-Mar-24			
SECG10115	Set-up + Load Testing	30.0	20.0	31-Jan-24 A	05-Mar-24	1 Set-up + Load lesting		
SECG10118	Design Verification by AECOM	14.0	14.0	06-Mar-24	19-Mar-24	1 Design Ventication by AECON	Л	
Nullah Decki	ng ND1	225.0	180.0	16-Nov-23 A	17-Sep-24	4 ·		
Pre-drilling an	d Piling Works	225.0	180.0	16-Nov-23 A	17-Sep-24	▲		
SECND1000	Pre-drilling works (28nos)-4 rigs (per one/4 days) (revised to 17 nos / 4 rigs)	32.0	30.0	16-Nov-23 A	16-Mar-24	Pre-drilling works (28nos)-4 rigs (per of the second	one/4 o	
SECND1020	Installation of pre-bored H-piles (132 nos)-4rigs	150.0	150.0	18-Mar-24	17-Sep-24	4		
Cantilever Fo	ootpath	150.0	140.0	15-Nov-23 A	01-Aug-24	4		
Bay 8 to Bay 3	11	150.0	140.0	15-Nov-23 A	01-Aug-24	1		
SECFP1140	Pre-drilling works (144 nos) (4 days/per one)-4 rigs (revised to 15 nos)	150.0	140.0	15-Nov-23 A	01-Aug-24	4		
Subway M an	nd Subway N	636.4	260.0	18-Jul-23 A	24-Oct-24			
Design Accep	tance, Procurement, Manufacturing and Delivery	464.4	260.0	18-Jul-23 A	24-Oct-24			
Subway M - RT	BM Design and Statutory Approval	16.0	28.0	12-Jan-24 A	06-Mar-24	Subway M - RTBM Design and Statutory Approval		
SECNM0170	Design Vetting and Statutory Approval (2nd Round)	14.0	14.0	12-Jan-24 A	21-Feb-24	4 Design Vetting and Statutory Approval (2nd Round)		
SECNM0190	Review and Acceptance	14.0	14.0	22-Feb-24	06-Mar-24	4 Review and Acceptance		
Procurement, M	Anufacturing and Delivery	411.0	260.0	25-Aug-23 A	24-Oct-24			
SECNM0210	Procurement of RTBM	75.0	61.0	25-Aug-23 A	08-Apr-24	1 · · · · · · · · · · · · · · · · · · ·		
SECNM0230	Manufacturing and Delivery RTBM and Associated Equipment	180.0	180.0	09-Apr-24	05-Oct-24	4		
SECNM0270	Manufacturing and Delivery of Subway Precast Segments	260.0	260.0	08-Feb-24	24-Oct-24	4		
Design and Ap	proval Launching Shaft ELS	60.0	7.0	18-Jul-23 A	14-Feb-24	4 Design and Approval Launching Shaft ELS		
SECNM0310	Review and Approval	60.0	7.0	18-Jul-23 A	14-Feb-24	4 Review and Approval		
Subway M		149.0	149.0	06-Mar-24	01-Aua-24	4		
Construction	f Launching Shaft	91.0	91.0	06-Mar-24	27-Jun-24	4 · · · · · · · · · · · · · · · · · · ·		
SECNM1002	Installation of pipe piles and sheet pile wall	28.0	28.0	06-Mar-24	11-Apr-24			
SECNM1002	Installation of dewatering well recharge well and observation well	12.0	12.0	06-Δnr-24	19-Δnr-24			
OLCINIVI 1003	n istanduori oi devratering weil, reorarge weil ditu UDSEIVdüUri Well	12.0	12.0	00-Apr-24	1 <i>3-1</i> 4			

中國路橋工程有限責任公司 CHINA ROAD AND BRIDGE CORPORATION Actual Work

Critical Activity

Non-Critical Activity Summary

♦ ♦ Milestone





nase Development - Contract 3				
J24	Apr 16	May 17		
FG1(8 nos) (revise	ed to 12 nos) / 2 rigs			
	Install	ation of bored piles for abuti		
taliation of bored pi	les for pier F I and F2(4 nos)			
3				
iction of Abutment (G1 - Pier G3			
ing vvorks ing works for Pier (G1 to Pier G3 (6 nos)			
/orks				
Verification by AEC	ОМ			
rks (28nos)-4 rigs (j	per one/4 days) (revised to 17 nos / 4 rigs)			
tory Approval				
	Procurement of RTBM			
	Installation of pipe piles and sheet pile wall	well, recharge well and ob		
Three Month Rolling Programme (Feb 2024 - May 2024) Data Date: 08-Feb-24				
	(Sheet 0 01 11)			

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Excavation works
0
x existing UU diversion/protection (

Critical Activity

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CHINA ROAD AND BRIDGE CORPORATION

CEDD Civil Engineering and Development Department

oment - Contract 3							
Apr		May					
16	Dime	17 Ding test					
	Pump						
		:					
	•						
		Trial Pit to locate ex					
Semi-Enclosure N	oise Barrier SE01						
	· _ · · · · _ ·						
Foundation of Ser	ni-Enclosure Noise Barrier SE(U 1					
Pre-drilling works	24 nos-2rigs) (revised to 23 no	s / 2 rigs)					
Installa	tion of sheetpile (143m*2)						
	Excava	tion works					
_							
_							
	(Construction of base slab (5					
Install	heetpile along original site bou	indary (affected by the upda					
		Execution works					
		Excavation Works					
C01							
Installation of sheetpile	@BC01						
	Excavation and installation of la	ateral support @BC01					
	Placir	ng of 600m thick arade 200					
		Installation of shootnil					
	_						
alling Due	ma (Eak 2024 N	av 2024)					
aung Program	me (гер 2024 - M	ay 2024)					
oning i rogram		• /					
Data Date: 08-F	eb-24	•					
Data Date: 08-F	eb-24	• •					
uy ID	Activity Name	Dur	Dur	Lany out	Lany Finon		Feb Mar 14 15
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Section 2 of	the Works-Completion of all works within Portion	292.0	170.0	27-Sep-23 A	26-Jul-24		
Preparation \	Vorks	115.0	14.0	27-Sep-23 A	27-Feb-24		Preparation Works
SEC021000	Site clearance	14.0	7.0	27-Sep-23 A	19-Feb-24		Site clearance
SEC021020	Erection of hoarding	14.0	14.0	08-Feb-24	27-Feb-24		Erection of hoarding
SEC021040	Tree felling works	14.0	7.0	27-Sep-23 A	19-Feb-24		Tree felling works
Demolition W	/orks	85.0	30.0	03-Oct-23 A	25-Mar-24		✓ Demolition Wo
SEC021060	Demolition of existing structure (4292m2)	85.0	30.0	03-Oct-23 A	25-Mar-24		Demolition of
Land Decont	amination Works	87.0	87.0	08-Feb-24	04-May-24		Y
SEC021205	Land decontamination assessment approval by EPD	21.0	21.0	08-Feb-24	28-Feb-24		Land decontamination assessment approval by EPD
SEC021220	Land decontamination works (40533 m3)	45.0	45.0	08-Mar-24	04-May-24		
Box Culvert I	BC01(CH0 to CH88.7095)	120.0	120.0	29-Feb-24	26-Jul-24		T
SEC021250	Installation of sheetpile(90m*2) @BC01	25.0	25.0	29-Feb-24	28-Mar-24		Installa
SEC021270	Excavation and installation of lateral support @BC01	68.0	68.0	06-May-24	26-Jul-24		
Fresh Water	and Flushing Water Works	14.0	14.0	06-May-24	22-May-24		
SEC021350	Abandonment of the fresh water and flushing water in Portion 10 and Portion 10A	14.0	14.0	06-May-24	22-May-24		
Utilities		7.0	7.0	06-May-24	13-May-24		
SEC021360	Utilities detection and trial pit	7.0	7.0	06-May-24	13-May-24		
Section 3 of	the Works-Completion of All works within Portion	331.0	171.0	11-Aug-23 A	27-Jul-24		
Preparation \	Vorks	35.0	35.0	08-Feb-24	22-Mar-24		▼ Preparation Works
SEC031007	Site clearance at Portion 14 and Portion 14A (remaining)	14.0	14.0	08-Feb-24	27-Feb-24		Site clearance at Portion 14 and Portion 14A (remaining)
SEC031008	Tree felling works at Portion 14 and Portion 14A (remaining)	21.0	21.0	28-Feb-24	22-Mar-24		Tree felling works at
SEC031010	Disconnect power supply at Portion 14 and Portion 14A	21.0	21.0	28-Feb-24	22-Mar-24		Disconnect power su
SEC101030	Site clearance at Portion 8A	7.0	7.0	08-Feb-24	19-Feb-24		Site clearance at Portion 8A
SEC101035	Tree felling works at at Portion 8A	14.0	14.0	20-Feb-24	06-Mar-24	-	Tree felling works at at Portion 8A
SEC101037	Disconnect power supply at at Portion 8A	21.0	21.0	20-Feb-24	14-Mar-24	-	Disconnect power supply at at Portion
Demolition W	lorks	177.0	136.0	18-Oct-23 A	27-Jul-24		
SEC031082	Demolition of existing structure in Portion 14 and Portion 14A (remaining)	125.0	65.0	18-Oct-23 A	02-May-24		
SEC91660	(affected bv late site handover) Demolition of existing structure in Portion 8A (3535 m2)	71.0	71.0	03-May-24	27-Jul-24	-	
and Decont	amination Works	109.0	147.0	11-Aug-23 A	03-Jul-24		
SEC031100	Environmental ground investigation	30.0	30.0	- 11-Aug-23 A	16-Mar-24		Environmental ground investigation
SEC031105	Land decontamination assessment approval by EPD in Portion 9A	21.0	21.0	17-Mar-24	06-Apr-24		
SEC031108	Land decontamination assessment approval by EPD in Portion 8A	21.0	21.0	17-Mar-24	06-Apr-24		
SEC031112	Land decontamination assessment approval by EPD in Portion 14 and	21.0	21.0	17-Mar-24	06-Apr-24	-	
SEC031120	Portion 14A Land decontamination works in Portion 14 and Portion 14A	50.0	50.0	03-May-24	03-Jul-24		
SEC031130	Land decontamination works in Portion 9A	7.0	7.0	08-Apr-24	15-Apr-24	-	
Rox Culvert I	BC01/CH164 to CH254)	20.0	20.0	30-Jan-24 A	05-Mar-24		■ Box Culvert BC01(CH164 to CH254)
SEC031160	Installation of sheetbile @BC01	20.0	20.0	30-Jan-24 A	05-Mar-24		Installation of sheetpile @BC01
Frach Water	and Elushing Water Works	20.0	20.0	03-May-24	27-Mav-24		
SEC031300	Abandonment of the fresh water and flushing water	20.0	20.0	03-May-24	27-May-24		
		7.0	70	28-Feb-24	06-Mar-24		Vtilities
SEC031320	Utilities detection and trial pit	7.0	7.0	28-Feb-24	06-Mar-24		Utilities detection and trial bit
		376.0	181.0	07_1uL23 A	06-Aug-24		
ection 4 of	the works-Completion of All works within Portion	004.0	101.0		00-Aug-24		Deser-
Preparation	Norks	201.0	40.0	07-Jul-23 A	28-Mar-24		Site dearance (EW/ No 005)
SEC041000	Site clearance (EW No.005)	14.0	5.0	07-Jul-23 A	16-Feb-24		
5EC041020	I ree telling works	14.0	14.0	17-⊢eb-24	04-Mar-24		I ree leiling works

CHINA ROAD AND BRIDGE CORPORATION

Critical Activity

CEDD Civil Engineering and Development Department ~~



oment - Contract 3	
Apr	May
16	17
tructure (4000	
	✓ Land Decontamir
	Land decontamin
eetpile(90m*2) @BC01	
4 and Portion 14A (remaining) ortion 14 and Portion 14A	
	Demolition of eviction
 Land decontamination assessment approval by EPD Land decontamination assessment approval by EPD Land decontamination assessment approval by EPD 	in Portion 9A in Portion 8A in Portion 14 and Portion 14
Land decontamination works in F	ortion 9A
rks	
olling Programme (Feb 2024 - M Data Date: 08-Feb-24 (sheet 8 of 11)	ay 2024)

		Dur	Dur			Feb	Mar 15	Ŧ
SEC041040	Disconnect power supply	21.0	21.0	05-Mar-24	28-Mar-24		Disc	onne
emolition W	/orks	150.0	65.0	18-Oct-23 A	21-May-24			
EC041080	Demolition of existing structure (7513m2) (affected by late site handover)	150.0	65.0	18-Oct-23 A	21-May-24			+
and Deconta	amination Works	143.0	181.0	03-Oct-23 A	06-Aug-24			-
EC041100	Environmental ground investigation	30.0	30.0	03-Oct-23 A	16-Mar-24		Environmental ground investigat	ation
EC041102	Land decontamination assessment approval by EPD	21.0	21.0	17-Mar-24	06-Apr-24			-
EC041120	Land decontamination works (28100 m3)	100.0	100.0	08-Apr-24	06-Aug-24			
tilities		7.0	7.0	05-Mar-24	12-Mar-24		Utilities	
EC041220	Utilities detection and trial bit	7.0	7.0	05-Mar-24	12-Mar-24		Utilities detection and trial pit	
ation E of	the Marke Completion of All Marke within Portion	400.0	114 0	07-Jul-23 A	31-May-24			
ection 5 of	the works-completion of All works within Portiol	407.0	01.0	07 14 00 4	00 Mar 04	Pro	paration Works	
reparation V	Vorks	187.0	21.0	07-JUI-23 A	06-Mar-24			
reparation W	orks for Portion 16A, 16B, 16C &16D	187.0	21.0	07-Jul-23 A	06-Mar-24	Pre		
SEC051100	Site Clearance for Portions (Affected by wooden poles and overhead cable)	18.0	8.0	07-Jul-23 A	20-Feb-24	Site Clearance for Portions (Affected	y wooden poles and overhead cable)	
SEC051120	Tree felling works for Portions (Affected by wooden poles and overhead cable)	21.0	21.0	18-Oct-23 A	06-Mar-24	Tree	telling works for Portions (Affected by wooden pol	iles a
EC051140	Erection of hoardings for Portions (Affected by wooden poles and overhead cable)	15.0	14.0	26-Jul-23 A	27-Feb-24	Erection of hoardings	or Portions (Affected by wooden poles and overhe	ead
SEC051160	Utilities detection and trial pit for Portions (Affected by wooden poles and protocol cable)	14.0	7.0	23-Oct-23 A	19-Feb-24	Utilities detection and trial pit for Portions	(Affected by wooden poles and overhead cable)	
emolition W	/orks	43.0	43.0	20-Feb-24	13-Apr-24	•		
EC053000	Demolition of existing footbridge(KD3)	30.0	30.0	20-Feb-24	25-Mar-24		Demolition (ofe
EC053020	Demolition of existing structure in Portion 16&16D(47 m2) (Affected by	21.0	21.0	16-Mar-24	13-Apr-24			-
nd Decont	wooden poles and overhead cable)	25.0	25.0	20-Mar-24	13-Apr-24		·	_
EC053040	Environmental ground investigation	3.0	3.0	20-Mar-24	22-Mar-24		Environmental grc	ound
=0.053045	Land decontamination assessment approval by EPD	14.0	14.0	23-Mar-24	05-Apr-24			
	Land decontamination works (1209 m2)	7.0	7.0	06 Apr 24	12 Apr 24			
EC053060	Land decontamination works (1206 ms)	7.0	7.0	00-Api-24	13-Api-24			
ox Culvert E	3C02	39.0	39.0	15-Apr-24	31-May-24			
EC054000	Temporary diversion of Power and existing drainage(KD3) @BC02 (Affected by wooden poles and overhead cable)	14.0	14.0	15-Apr-24	30-Apr-24			
EC054020	Demolition of existing channel(KD3) @BC02	25.0	25.0	02-May-24	31-May-24			
ction 6 of	the Works-Completion of All works within Portion	435.0	159.0	14-Aug-23 A	15-Jul-24			
eparation V	Vorks	199.0	74.0	14-Aug-23 A	13-May-24			÷
EC061000	Site clearance	14.0	14.0	14-Aug-23 A	27-Feb-24	Site clearance		
EC061020	Tree felling works	60.0	60.0	28-Feb-24	13-May-24			-
C061040	Erection of hoarding	45.0	45.0	28-Feb-24	24-Apr-24			-
molition W	larka	124.0	55.0	25-Sep-23 A	19-Apr-24			
=C061060	Demolition of existing structure (6229m2) (affected by late site bandover)	124.0	55.0	25-Sep-23 A	19-Apr-24			
		113.0	100.0	22-Sen-23 A	17-May-24			
and Deconta	amination works	20.0	20.0	22-3ep-23 A	17-iviay-24			
		30.0	30.0	22-Sep-23 A	20-Apr-24		on accomment (nort I for bondaries d - it-)	
EC061102	Land decontamination assessment (part I for handovered site) approval by EPD	21.0	21.0	08-⊢eb-24	28-Feb-24		an assessment (part i for nandovered site) approva	ai D)
EC061120	Land decontamination works (part I for handovered site)	34.0	34.0	29-Feb-24	12-Apr-24			
EC101800	Land decontamination assessment (part II for remaining site) approval by EPD	21.0	21.0	27-Apr-24	17-May-24			
ound Inves	stigation	10.0	0.0	25-Jan-24 A	07-Feb-24 A	Ground Investigation		
EC061155	Pre-drilling TYST Lift (1 no.)	10.0	0.0	25-Jan-24 A	07-Feb-24 A	Pre-drilling TYST Lift (1 no.)		
x Culvert E	BC01 from CH88.7 to CH164	204.0	122.0	22-Sep-23 A	11-Jul-24			-
EC061160	Installation of sheetpile @BC01	48.0	24.0	22-Sep-23 A	09-Mar-24		Installation of sheetpile @BC01	
EC061180	Excavation and installation of lateral support @BC01	98.0	98.0	11-Mar-24	11-Jul-24			-
v Culuare I	2C01 from CH254 to CH450	21.0	21.0	03-May-24	28-May-24			
	Implementation of TTA (temporary mod at Section 2) @PC01	21.0	21.0	03-May 24	28-May 24			
-0001290	implementation of the temporary toau at Section 3) (2001	21.0	21.0	03-1VIAY-24	20-11/1ay-24			

CHINA ROAD AND BRIDGE CORPORATION

Critical Activity





pment - (Contract 3	
	Apr 16	May 17
wer supply		
Land deconta	mination assessment approval by EPD	
verhead cable)		
	Demolition Works	
footbridge(KD3)		
	Demolition of existing structure in Port	ion 16&16D(47 m2) (Affecte
	Land Decontamination Works	
stigation		
Land decontam	Ination assessment approval by EPD	2)
		(5)
		Temporary diversion of Po
	Fraction of h	o ordin a
	Demolition Works	oarding
	Demolition of existing st	ructure (6229m2) (affected t
	J	· · · · ·
	Environ	mental ground investigation
	Land decontamination works (part I for h	andovered site)
		-
Dolling Dr.	mamma (Eab 1014 NA	av 2024)
NUTING Prog Data Dat	gramme (red 2024 - M te: 08-Feb-24	ay 2024)
(shee	et 9 of 11)	

Environmental ground investigation
Environmental ground investigation
Land decontam
Site clearance
Tree felling works
Preparation Works
Site clearance (EW No.005)
Tree felling works
Demolition Works
Demolition of existing structure in Portion 7&7A (142m2)
Demolition of existing structure in Portion 5C&7C (285m2)
Land Decontamination Works
Land decontamination assessment approval by EPD
Land decontamination works in Portion 7
Drainage Works
Excavation works
▼ Preparation
Construction
Trial Pile for Prebored H-Pile
Trial Pile for pre-bored H-piles and Loading Test
Design Review for Trial Pile
Pre-drillina works (15 nos / 4 rias) (Affe

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oment - Contract 3	
Apr	May
16	17
•	
	Implement
•	
on assessment approval by EPD	
Section 8 of the Works-Completion of All V	orks within Portions 12 and
Preparation Works	
Erection of hoarding	
Sewage Works	
Demoval of existing equipage	
Removal of existing sewage	
·	√ Wat
	Exc
	•
rks	
temporary carriageway to divert Long Hon Road/Shan Ha	Road (Affected by the site h
Demolition Works	
Demolition of existing bridg	je NF138
by the updated site boudary, NCE No. 014)	
alling Programma (Fab 2024 M	av 2024)
Coming 1 rogramme (red 2024 - Ma	ay 2024j
Data Date: 08-Feb-24	
(sheet 10 of 11)	

May 17
bilization and setup







Actual Work Milestone • Non-Critical Activity Summary Critical Activity

Three Month Rolling Programme (Feb 2024 - May 2024)

Data Date: 08-Feb-24 (sheet 11 of 11)



Appendix E

Monitoring Locations



HOT			
	LEGEND		
<u>SUL</u>	Boundary of N	YL/2021/03 (Co	ontract 1)
	Boundary of `	YL/2021/04 (Co	ontract 2)
	Roundary of)	(1 /2022/01 (Cc	ontract 3)
	Boundary of	12/2022/01 (60	milaci 3)
	Construction I Stations	Dust Monitoring	9
E PC			
APAST.			
ALL ANT			
1 CENK			
Nº - A			
J À			
AND			
L'ANG			
KSK (K)			
- J.L.	Project Title:		
	CEDD Service Contract Yuen Long South First	No. WD/07/202 t Phase Develop	2 oment -
	Environmental Team		
7347	Figure Title:		
A3 V	Location of C Monitoring Stations	Construction for YLS Fire	Dust t Phase
	Development	IOL TEO EILS	e i nase
NU ~	Drawn by:	Scale: 1:13,74	5on A3
50	Checked By:		
- A	Approved by:		Revision:
	rigure Number:		0



	_		
	LEGEND		
Si l'	Boundary of `	YL/2021/03 (Co	ontract 1)
	Boundary of	YL/2021/04 (Co	ontract 2)
	Boundary of N	(/2022/01 (Ca	ontract 3)
	Stations		ıg
	Construction Stations (Plar	Noise Monitori nned NSRs)	ng
FILES			
A.			
ATR			
	Project Title: CEDD Service Contract	No. WD/07/202	17
	Yuen Long South First	Phase Develop	oment -
\mathcal{S}	Figure Title:		
JYC I	Location of C	onstruction	Noise
Non	Monitoring Stations Development	for YLS Firs	t Phase
	Drawn by:	Scale: 1:13,74	5on A3
$\langle \rangle$	Checked By:		_
15	Approved by:		
	Figure Number:		Revision: 0



	Boundary of	YL/2021/03 (Contract 1)
	Boundary of `	YL/2021/04 (Contract 2)
	Boundary of `	YL/2022/01 (Contract 3)
	Water Quality Gradient Stati	Monitoring Impact / ions
	Water Quality	/ Monitoring Control
	Stations	
\$-5		
SAN S		
75 57		
JA		
ALK		
NE CAR		
A S	Project Title: CEDD Service Contract	No. WD/07/2022
	Yuen Long South First Environmental Team	t Phase Development -
212	Figure Title:	
H34	Location of Water	Quality Monitoring
North Contraction	Stations for Y Development	LS First Phase
	Drawn by:	Scale: 1:13,745on A3
SAP	Checked By:	
1 De	Approved by:	
	Figure Number:	Revision: 0



	_	
1155		
	Boundary of	(I/2021/03 (Contract 1)
		(1/2021/00 (Contract 1)
	Boundary of Y	/L/2021/04 (Contract 2)
	Boundary of Y	/L/2022/01 (Contract 3)
	Water Quality Gradient Stati	Monitoring Impact / ons
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- JASA	Project Title:	No. WD/07/2022
	Yuen Long South First	Phase Development -
$\langle () \rangle$	Environmental Team	
JYY .	Figure Title:	Quality Manitoring
	Stations for Contrac	t 1
	Checked By:	scale: 1:13,745 on A3
ZZ	Approved by:	
	Figure Number:	Revision: 0



	_	
10 11	LEGEND	
	Boundary of `	YL/2021/03 (Contract 1)
	Boundary of	YL/2021/04 (Contract 2)
	Boundary of)	(1/2022/01 (Contract 3)
	Water Quality	
	Gradient Stati	ions
	Water Quality Stations	Monitoring Control
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a for a for a		
2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		
L'LL		
	Project Title: CEDD Service Contract	No. WD/07/2022
	Yuen Long South First	t Phase Development -
$\langle \rangle \rangle$		
LYCY.	Location of Water	Quality Monitoring
	Stations for Contrac	t 2
	Drawn by:	Scale: 1:13.745 on A3
	Checked By:	1.20,7.000770
NE	Approved by:	
	Figure Number:	Revision: 0



	LEGEND	
	Boundary of `	YL/2021/03 (Contract 1)
~ II	Boundary of `	YL/2021/04 (Contract 2)
	Boundary of N	/L/2022/01 (Contract 3)
	Water Quality Gradient Stati	Monitoring Impact / ons
	Water Quality	Monitoring Control
	Stations	
AR		
12 KA		
	Project Title: CEDD Service Contract	No. WD/07/2022
	Yuen Long South First	Phase Development -
	Environmental Team	
7772	Figure Title:	
HZ-V	Location of Water Stations for Contrac	Quality Monitoring t 3
YOR		
	Drawn by:	Scale: 1:13,745on A3
	Checked By:	
NEN	Approved by:	
	Figure Number:	Revision:



Appendix F

Calibration Certificates



Appendix F1

Calibration Certificates for

Air Quality Monitoring Equipment

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



SUB-CONTRACTING REPORT

CONTACT	: MR BEN TAM	WORK ORDER	HK2311530
CLIENT	ACTION-UNITED ENVIRONMENTAL		
	SERVICES & CONSULTING		
ADDRESS	: RM A 20/F., GOLD KING IND BLDG, NO. 35-41	SUB-BATCH	: 1
	TAI LIN PAI ROAD, KWAI CHUNG, N.T.	DATE RECEIVED	: 23-MAR-2023
		DATE OF ISSUE	: 30-MAR-2023
PROJECT	:	NO. OF SAMPLES	: 1
		CLIENT ORDER	÷
ADDRESS PROJECT	 RM A 20/F., GOLD KING IND BLDG, NO. 35-41 TAI LIN PAI ROAD, KWAI CHUNG, N.T. 	SUB-BATCH DATE RECEIVED DATE OF ISSUE NO. OF SAMPLES CLIENT ORDER	: 1 : 23-MAR-2023 : 30-MAR-2023 : 1 :

General Comments

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in ambient condition. The result(s) related only to the • item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

- Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.
- Calibration was subcontracted to and analysed by Action United Environmental Services & Consulting.

Signatories

This document has been signed by those names that appear on this report and are the authorised signatories

Signatories	Position	
Richard Juny.		
Richard Fung	Managing Director	

This report supersedes any previous report(s) with the same work order number.

All pages of this report have been checked and approved for release.
ALS Technichem (HK) Pty_Ltd

Part of the ALS Laboratory Group

11/F. Chung Shun Knitting Centre 1 - 3 Wing Yip Street Kwai Chung N.T. Hong Kong Tel. +852 2610 1044 Fax. +852 2610 2021 www.alsglobal.com

WORK ORDER SUB-BATCH

CLIENT

PROJECT

: HK2311530

11/2311330

¹ 1 2 ACTION-UNITED ENVIRONMENTAL SERVICES & CONSULTING 2 ----



ALS Lab ID	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.
HK2311530-001	S/N: 3Y6502	AIR	23-Mar-2023	S/N: 3Y6502

Equipment Verification Report (TSP)

Equipment Calibrated:

Туре:	Laser Dust monitor
Manufacturer:	Sibata LD-3B
Serial No.	3Y6502
Equipment Ref:	EQ113

Standard Equipment:

Verification Date:

Standard Equipment:	Higher Volume Sampler (TSP)
Location & Location ID:	AUES office (calibration room)
Equipment Ref:	HVS 018 & HVS 019
Last Calibration Date:	27 February 2023 & 10 January 2023

Equipment Verification Results:

6 & 9 March 2023

Date	Hour	Time	Mean Temp °C	Mean Pressure (hPa)	Concentration in ug/m ³ (Standard Equipment)	Total Count (Calibrated Equipment)	Count/Minute (Total Count/min)
6-Mar-23	2hr01mins	09:35 ~ 11:36	20	1022.4	82.5	4537	37.6
6-Mar-23	2hr01mins	11:43 ~ 13:44	20	1022.4	29.5	2117	17.5
6-Mar-23	2hr11mins	13:45 ~ 15:56	20	1022.4	30.4	2306	17.6
9-Mar-23*	61mins	11:03 ~ 12:04	22.5	1017.7	144	4408	72.7
9-Mar-23*	61mins	12:06 ~ 13:07	22.5	1017.7	116	3761	61.5

(*) Suspended particle was added into calibration room of HVS019 for high concentration test.

Sensitivity Adjustment Scale Setting (Before Calibration) Sensitivity Adjustment Scale Setting (After Calibration) 655 (CPM)

Linear Regression of Y or X

Slope (K-factor): Correlation Coefficient (R)

<u>2.0108 (µg/m³)/CPM</u> 0.9939 20 March 2023



Remarks:

Date of Issue

1. **Strong** Correlation (R>0.8)

2. Factor 2.0108 (µg/m³)/CPM should be apply for TSP monitoring

*If R<0.5, repair or re-verification is required for the equipment

Operator :	Fai So	Signature :	Ja	Date :	20 March 2023
QC Reviewer :	Ben Tam	Signature : _	\$6	Date :	20 March 2023

TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

CONDITIONS Sea Level Pressure (hPa) 1024 Co Temperature (°C) 17.8 Co CALIBRATION ORIFICE Make-> TISCH Model-> 5025A Co Calibration Date-> 15-Dec-22 CALIBRATION	Pressure (mm Hg) 768 Temperature (K) 291 Qstd Slope -> 2.10977 Qstd Intercept -> -0.03782 Expiry Date-> 15-Dec-23		
Sea Level Pressure (hPa) 1024 Co Temperature (°C) 17.8 CALIBRATION ORIFICE Make-> TISCH Model-> 5025A Co Calibration Date-> 15-Dec-22 CALIBRATION	Orrected Pressure (mm Hg) Temperature (K) 768 291 Qstd Slope -> Qstd Intercept -> Expiry Date-> 2.10977 -0.03782 15-Dec-23		
CALIBRATION ORIFICE Make-> TISCH Model-> 5025A Calibration Date-> 15-Dec-22 CALIBRATION	Qstd Slope -> 2.10977 Qstd Intercept -> -0.03782 Expiry Date-> 15-Dec-23		
Make-> TISCH Model-> 5025A Calibration Date-> 15-Dec-22 CALIBRATION	Qstd Slope -> 2.10977 Qstd Intercept -> -0.03782 Expiry Date-> 15-Dec-23		
CALIBRATION	I INE A D		
	I INE A D		
PlateH20 (L)H2O (R)H20QstdIICNo.(in)(in)(m3/min)(chart)corrected	REGRESSION		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Slope = 32.9819 Intercept = 0.0741 Corr. coeff. = 0.9968		
Calculations : Particle Sector (H20(Pa/Pstd)(Tstd/Ta))-b] IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)] 60.00 Qstd = standard flow rate 50.00 IC = corrected chart respones 50.00 I = actual chart response 50.00 m = calibrator Qstd slope 60.00 b = calibrator Qstd slope 50.00 b = calibrator Qstd intercept 50.00 Ta = actual temperature during calibration (deg K) 50.00 Pstd = actual pressure during calibration (mm Hg) 50.00 For subsequent calculation of sampler flow: 10.00 1/m((I)[Sqrt(298/Tav)(Pav/760)]-b) 10.00 m = sampler slope 0.000 0.500 b = sampler intercept 0.000 0.500 I = chart response 50.00 50.00	LOW RATE CHART		

TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Location :Gold King Industrial Building, Kwai ChungLocation ID :Calibration Room(HVS 019)						Date of Calibration: 10-Jan-23 Next Calibration Date: 9-Apr-23			
						COND	ITIONS		
	Se	a Level I Temp	Pressure erature	(hPa) (°C)	1	018.8 18.2		Corrected Pressure (mm Hg) 764.1 Temperature (K) 291	
					CALI	BRATI	ON ORIFIC	CE	
Make-> TIS Model-> 502 Calibration Date-> 15-D					TIS 502 15-D	CH 25A ec-22		Qstd Slope -> 2.10977 Qstd Intercept -> -0.03782 Expiry Date-> 15-Dec-23	
					C	CALIB	RATION		
Plate	H20 (L) (in)	H2O (R) (in)	H20 (in)	Qstd (m3/min)	(ch	[art)	IC corrected	LINEAR REGRESSION	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				5 4 4 3 2	corrected 55 55.79 48 48.69 44 44.63 36 36.52 28 28.40		Slope = 31.4802 Intercept = 1.9499 Corr. coeff. = 0.9967		
Calculatio Qstd = 1/n IC = I[Sqr Qstd = sta: IC = corre I = actual m = calibra Ta = actua Pstd = actua For subse 1/m((I)[S] m = sampl b = sampl I = chart re	ns : n[Sqrt(H t(Pa/Psto ndard flo cted cha chart res ator Qsto ttor Qsto l temper ual press quent ca qrt(298/ er slope er interc esponse	20(Pa/Ps l)(Tstd/T ow rate rt respon ponse d slope intercep ature durin alculation Tav)(Pav	td)(Tstd a)] es t ting cali g calibr n of sam r/760)]-t	/Ta))-b] bration (de ation (mm ppler flow:))	g K) Hg)	60 50 00 00 01 01 00	0.00 0.00 0.00 0.00 0.00 0.000	FLOW RATE CHART	
Tav = dail Pav = dail	y averag y averag	e temper e pressur	ature e			<u> </u>			



RECALIBRATION

DUE DATE:

December 15, 2023

nmental Certificate of Calibration

			Calibration	Certificatio	on Informat	tion		
Cal. Date:	December	15, 2022	Roots	meter S/N:	438320	Ta:	295	°K
Operator:	Jim Tisch					Pa:	748.0	mm Hg 🔡
Calibration	Model #:	TE-5025A	Calil	brator S/N:	4064			
		Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔP	ΔН	1
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)	
	1	1	2	1	1.4430	3.2	2.00]
	2	3	4	1	1.0210	6.4	4.00]
	3	5	6	1	0.9170	7.9	5.00	
	4	7	8	1	0.8730	8.8	5.50]
	5	9	10	1	0.7210	12.8	8.00]
				Data Tabula	tion)'	1
	Vstd	Qstd	√∆H(<u>Pa</u> Pstd) <u>(Tstd</u>)		Qa	$\sqrt{\Delta H(Ta/Pa)}$	
	(m3)	(x-axis)	(y-ax	(is)	Va	(x-axis)	(y-axis)	
	0.9900	0.6861	1.41	01	0.9957	0.6900	0.8881	1
	0.9858	0.9655	1.99	43	0.9914	0.9711	1.2560	1
	0.9838	1.0728	2.2296		0.9894	1.0790	1.4042	1
	0.9826	1.1255	2.3385		0.9882	1.1320	1.4728	1
	0.9772	1.3554	2.8203		0.9829	1.3632	1.7762	1
		m=	2.109	977		m=	1.32110	1
	QSTD	b=	-0.03	782	QA	b=	-0.02382]
		r=	0.999	998		r=	0.99998]
				Calculatio	ns]
	Vstd=	ΔVol((Pa-ΔP)/Pstd)(Tstd/T	a)	Va=			
	Qstd=	Vstd/∆Time			Qa= Va/ΔTime			
			For subsequ	uent flow ra				
	Qstd=	1/m ((√ΔH	Pa <u>Tstd</u> Pstd Ta	-))-b)	Qa=	1/m ((√∆ł	H(Ta/Pa))-b)	
	Standard	Conditions						-
Tstd	: 298.15	°K				RECA	LIBRATION	
Pstd	: 760	mm Hg			110 55 1		,	
	1	Key		¥.	US EPA reco	ommends a	nnual recalibrati	on per 1998
∆H: calibrat	tor manome	ter reading (i	n H2O)		40 Code	ot Federal	Regulations Part	50 to 51,
ΔP: rootsm	eter manom	eter reading	(mm Hg)		Appendix	B to Part 50	, Reference Metl	hod for the
Ia: actual a	psolute tem	perature (°K)			Determina	tion of Susp	ended Particulat	e Matter in
ra: actual t	arometric p	ressure (mm	п <u>g)</u>		th	e Atmosphe	ere, 9.2.17, page	30
m. slope					<u> </u>			

Tisch Environmental, Inc. 145 South Miami Avenue Village of Cleves, OH 45002

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

ALS Technichem (HK) Pty Ltd

ALS Laboratory Group

ANALYTICAL CHEMISTRY & TESTING SERVICES



SUB-CONTRACTING REPORT

: MR BEN TAM	WORK ORDER	HK2311531
ACTION-UNITED ENVIRONMENTAL		
SERVICES & CONSULTING		
: RM A 20/F., GOLD KING IND BLDG, NO. 35-41	SUB-BATCH	: 1
TAI LIN PAI ROAD, KWAI CHUNG, N.T.	DATE RECEIVED	: 23-MAR-2023
	DATE OF ISSUE	: 30-MAR-2023
:	NO. OF SAMPLES	: 1
	CLIENT ORDER	÷
	 MR BEN TAM ACTION-UNITED ENVIRONMENTAL SERVICES & CONSULTING RM A 20/F., GOLD KING IND BLDG, NO. 35-41 TAI LIN PAI ROAD, KWAI CHUNG, N.T. 	 MR BEN TAM WORK ORDER ACTION-UNITED ENVIRONMENTAL SERVICES & CONSULTING RM A 20/F., GOLD KING IND BLDG, NO. 35-41 SUB-BATCH DATE RECEIVED DATE OF ISSUE RM A 20/F., GOLD KING IND BLDG, N.T.

General Comments

Sample(s) was/ were submitted by client. Sample(s) arrived laboratory in ambient condition. The result(s) related only to the • item(s) tested.

Sample information (Project name, Sample ID, Sampling date/time, etc.) is provided by client.

- Result(s) of sample(s) is/are reported on as received basis, unless otherwise specified.
- Calibration was subcontracted to and analysed by Action United Environmental Services & Consulting.

Signatories

This document has been signed by those names that appear on this report and are the authorised signatories

Signatories	Position	
Richard Juny.		
Richard Fung	Managing Director	

This report supersedes any previous report(s) with the same work order number.

All pages of this report have been checked and approved for release.
ALS Technichem (HK) Pty_Ltd

Part of the ALS Laboratory Group

11/F. Chung Shun Knitting Centre 1 - 3 Wing Yip Street Kwai Chung N.T. Hong Kong Tel. +852 2610 1044 Fax. +852 2610 2021 www.alsglobal.com

WORK ORDER SUB-BATCH

CLIENT

PROJECT

: HK2311531

: 1 : ACTION-UNITED ENVIRONMENTAL SERVICES & CONSULTING :



ALS Lab ID	Client's Sample ID	Sample Type	Sample Date	External Lab Report No.
HK2311531-001	S/N: 456658	AIR	23-Mar-2023	S/N: 456658

Equipment Verification Report (TSP)

Equipment Calibrated:

Туре:	Laser Dust monitor
Manufacturer:	Sibata LD-3B
Serial No.	456658
Equipment Ref:	EQ115

Standard Equipment:

Verification Date:

Standard Equipment:	Higher Volume Sampler (TSP)
Location & Location ID:	AUES office (calibration room)
Equipment Ref:	HVS 018 & HVS 019
Last Calibration Date:	27 February 2023 & 10 January 2023

Equipment Verification Results:

6 & 9 March 2023

Date	Hour	Time	Mean Temp °C	Mean Pressure (hPa)	Concentration in ug/m ³ (Standard Equipment)	Total Count (Calibrated Equipment)	Count/Minute (Total Count/min)
6-Mar-23	2hr01mins	09:35 ~ 11:36	20	1022.4	82.5	4485	37.2
6-Mar-23	2hr01mins	11:43 ~ 13:44	20	1022.4	29.5	2128	17.6
6-Mar-23	2hr11mins	13:45 ~ 15:56	20	1022.4	30.4	2267	17.3
9-Mar-23*	61mins	11:03 ~ 12:04	22.5	1017.7	144	4263	70.3
9-Mar-23*	61mins	12:06 ~ 13:07	22.5	1017.7	116	3667	59.9

(*) Suspended particle was added into calibration room of HVS019 for high concentration test.

Sensitivity Adjustment Scale Setting (Before Calibration) Sensitivity Adjustment Scale Setting (After Calibration) 702 (CPM)



Slope (K-factor): Correlation Coefficient (R)

Date of Issue

0.9944 20 March 2023

2.0937 (µg/m³)/CPM



Remarks:

1. **Strong** Correlation (R>0.8)

2. Factor 2.0937 (µg/m³)/CPM should be apply for TSP monitoring

*If R<0.5, repair or re-verification is required for the equipment

Operator :	Fai So	Signature :	Ja	Date :	20 March 2023
QC Reviewer :	Ben Tam	Signature : _		Date :	20 March 2023

TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

CONDITIONS Sea Level Pressure (hPa) 1024 Co Temperature (°C) 17.8 Co CALIBRATION ORIFICE Make-> TISCH Model-> 5025A Co Calibration Date-> 15-Dec-22 CALIBRATION	Pressure (mm Hg) 768 Temperature (K) 291 Qstd Slope -> 2.10977 Qstd Intercept -> -0.03782 Expiry Date-> 15-Dec-23
Sea Level Pressure (hPa) 1024 Co Temperature (°C) 17.8 CALIBRATION ORIFICE Make-> TISCH Model-> 5025A Co Calibration Date-> 15-Dec-22 CALIBRATION	Orrected Pressure (mm Hg) Temperature (K) 768 291 Qstd Slope -> Qstd Intercept -> Expiry Date-> 2.10977 -0.03782 15-Dec-23
CALIBRATION ORIFICE Make-> TISCH Model-> 5025A Calibration Date-> 15-Dec-22 CALIBRATION	Qstd Slope -> 2.10977 Qstd Intercept -> -0.03782 Expiry Date-> 15-Dec-23
Make-> TISCH Model-> 5025A Calibration Date-> 15-Dec-22 CALIBRATION	Qstd Slope -> 2.10977 Qstd Intercept -> -0.03782 Expiry Date-> 15-Dec-23
CALIBRATION	I INE A D
	I INE A D
PlateH20 (L)H2O (R)H20QstdIICNo.(in)(in)(m3/min)(chart)corrected	REGRESSION
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Slope = 32.9819 Intercept = 0.0741 Corr. coeff. = 0.9968
Calculations : Particle Sector (H20(Pa/Pstd)(Tstd/Ta))-b] IC = I[Sqrt(Pa/Pstd)(Tstd/Ta)] 60.00 Qstd = standard flow rate 50.00 IC = corrected chart respones 50.00 I = actual chart response 50.00 m = calibrator Qstd slope 60.00 b = calibrator Qstd slope 50.00 b = calibrator Qstd intercept 50.00 Ta = actual temperature during calibration (deg K) 50.00 Pstd = actual pressure during calibration (mm Hg) 50.00 For subsequent calculation of sampler flow: 10.00 1/m((I)[Sqrt(298/Tav)(Pav/760)]-b) 10.00 m = sampler slope 0.000 0.500 b = sampler intercept 0.000 0.500 I = chart response 50.00 50.00	LOW RATE CHART

TSP SAMPLER CALIBRATION CALCULATION SPREADSHEET

Location :Gold King Industrial Building, KwaLocation ID :Calibration Room(HVS 019)					ng, Kv))	wai Cł	nung	Date of Calibration: 10-Jan-23 Next Calibration Date: 9-Apr-23
						COND	ITIONS	
	Se	a Level I Temp	Pressure erature	(hPa) (°C)	1	018.8 18.2		Corrected Pressure (mm Hg) 764.1 Temperature (K) 291
					CALI	BRATI	ON ORIFIC	CE
Make-> TIS Model-> 50 Calibration Date-> 15-D						CH 25A ec-22		Qstd Slope -> 2.10977 Qstd Intercept -> -0.03782 Expiry Date-> 15-Dec-23
					C	CALIB	RATION	
Plate	H20 (L) (in)	H2O (R) (in)	H20 (in)	Qstd (m3/min)	(ch	[art)	IC corrected	LINEAR REGRESSION
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					5 4 4 3 2	5 8 4 6 8	55.79 48.69 44.63 36.52 28.40	Slope = 31.4802 Intercept = 1.9499 Corr. coeff. = 0.9967
Calculatio Qstd = 1/n IC = I[Sqr Qstd = sta: IC = corre I = actual m = calibra Ta = actua Pstd = actua For subse 1/m((I)[S] m = sampl b = sampl I = chart re	ns : n[Sqrt(H t(Pa/Psto ndard flo cted cha chart res ator Qsto ttor Qsto l temper ual press quent ca qrt(298/ er slope er interc esponse	20(Pa/Ps l)(Tstd/T ow rate rt respon ponse d slope intercep ature durin alculation Tav)(Pav	td)(Tstd a)] es t ting cali g calibr n of sam r/760)]-t	/Ta))-b] bration (de ation (mm ppler flow:))	g K) Hg)	60 50 00 00 01 01 00	0.00 0.00 0.00 0.00 0.00 0.000	FLOW RATE CHART
Tav = dail Pav = dail	y averag y averag	e temper e pressur	ature e			<u> </u>		



RECALIBRATION

DUE DATE:

December 15, 2023

nmental Certificate of Calibration

			Calibration	Certificatio	on Informat	tion			
Cal. Date:	December	15, 2022	Roots	meter S/N:	438320	Ta:	295	°K	
Operator:	Jim Tisch	Tisch				Pa:	748.0	mm Hg 🔡	
Calibration	Model #:	TE-5025A	Calil	brator S/N:	4064				
		Vol. Init	Vol. Final	ΔVol.	ΔTime	ΔP	ΔН	1	
	Run	(m3)	(m3)	(m3)	(min)	(mm Hg)	(in H2O)		
	1	1	2	1	1.4430	3.2	2.00]	
	2	3	4	1	1.0210	6.4	4.00]	
	3	5	6	1	0.9170	7.9	5.00		
	4	7	8	1	0.8730	8.8	5.50]	
	5	9	10	1	0.7210	12.8	8.00]	
				Data Tabula	tion)'	1	
	Vstd	Qstd	√∆H(<u>Pa</u> Pstd) <u>(Tstd</u>)		Qa	$\sqrt{\Delta H(Ta/Pa)}$		
	(m3)	(x-axis)	(y-ax	(is)	Va	(x-axis)	(y-axis)		
	0.9900	0.6861	1.41	01	0.9957	0.6900	0.8881	1	
	0.9858	0.9655	1.99	43	0.9914	0.9711	1.2560	1	
	0.9838	1.0728	2.22	96	0.9894	1.0790	1.4042	1	
	0.9826	1.1255	2.33	85	0.9882	1.1320	1.4728	1	
	0.9772	1.3554	2.82	03	0.9829	1.3632	1.7762	1	
		m=	2.109	977		m=	1.32110	1	
	QSTD	b=	-0.03	782	QA	b=	-0.02382]	
		r=	0.999	998		r=	0.99998]	
				Calculatio	ns]	
	Vstd=	ΔVol((Pa-ΔP)/Pstd)(Tstd/T	a)	Va= ΔVol((Pa-ΔP)/Pa)				
	Qstd=	Vstd/∆Time			Qa=	Va/∆Time			
			For subsequ	uent flow ra	te calculatio	ns:			
	Qstd=	1/m ((√ΔH	Pa <u>Tstd</u> Pstd Ta	-))-b)	Qa=	1/m ((√∆ł	H(Ta/Pa))-b)		
	Standard	Conditions						-	
Tstd	: 298.15	°K				RECA	LIBRATION		
Pstd	: 760	mm Hg			110 55 1		,		
	1	Key		¥.	US EPA reco	ommends a	nnual recalibrati	on per 1998	
∆H: calibrat	tor manome	ter reading (i	n H2O)		40 Code	ot Federal	Regulations Part	50 to 51,	
ΔP: rootsm	eter manom	eter reading	(mm Hg)		Appendix	B to Part 50	, Reference Metl	hod for the	
Ia: actual a	psolute tem	perature (°K)			Determina	tion of Susp	ended Particulat	e Matter in	
ra: actual t	arometric p	ressure (mm	п <u>g)</u>		th	e Atmosphe	ere, 9.2.17, page	30	
m. slope					<u> </u>				

Tisch Environmental, Inc. 145 South Miami Avenue Village of Cleves, OH 45002

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



Appendix F2

Calibration Certificates for

Noise Monitoring Equipment



Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C231628 證書編號

ITEM TESTED / 送檢」	百百	(Job No. / 序引編號:IC23-0436)	Date of Receipt / 收件日期: 28 February 2023
Description / 儀器名稱	:	Sound Level Meter (EQ020)	
Manufacturer / 製造商	:	Rion	
Model No. / 型號	:	NL-52A	n
Serial No. / 編號	:	00620665	
Supplied By / 委託者	:	Action-United Environmental Services a	nd Consulting
		Unit A, 20/F., Gold King Industrial Build	ding,
		35-41 Tai Lin Pai Road, Kwai Chung, N	.Т.

TEST CONDITIONS / 測試條件

Temperature / 溫度 : (23 ± 2)°C Line Voltage / 電壓 : --- Relative Humidity / 相對濕度 : (50±25)%

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 21 March 2023

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.

The results do not exceed specified limits.

These limits refer to manufacturer's published tolerances as requested by the customer.

The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Agilent Technologies / Keysight Technologies
- Fluke Everett Service Center, USA

Tested By 測試	K C Lee Engineer		
Certified By 核證	: Chun thu C H C Chan Engineer	Date of Issue 簽發日期	:

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。

21 March 2023



Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.: C231628 證書編號

- 1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- 2. Self-calibration was performed before the test.
- 3. The results presented are the mean of 3 measurements at each calibration point.
- 4. Test equipment :

Equipment ID	Description	Certificate No.
CL280	40 MHz Arbitrary Waveform Generator	C230306
CL281	Multifunction Acoustic Calibrator	AV210017

- 5. Test procedure : MA101N.
- 6. Results :
- 6.1 Sound Pressure Level
- 6.1.1 Reference Sound Pressure Level

UUT Setting				Applied Value		UUT	IEC 61672
Range	Function	Frequency	Time	Level	Freq.	Reading	Class 1 Limit
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)	(dB)
30 - 130	L _A	A	Fast	94.00	1	94.1	± 1.1

6.1.2 Linearity

	UU	Γ Setting	Applie	d Value	UUT	
Range	Function	Frequency	Time	Level	Freq.	Reading
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)
30 - 130	L _A	А	Fast	94.00	1	94.1 (Ref.)
				104.00		104.1
				114.00		114.1

IEC 61672 Class 1 Limit : \pm 0.6 dB per 10 dB step and \pm 1.1 dB for overall different.

6.2 Time Weighting

UUT Setting				Applied Value		UUT	IEC 61672
Range	Function	Frequency	Time	Level	Freq.	Reading	Class 1 Limit
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)	(dB)
30 - 130	L _A	А	Fast	94.00	1	94.1	Ref.
			Slow			94.1	± 0.3

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.



Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C231628 證書編號

6.3 Frequency Weighting

6.3.1 A-Weighting

UUT Setting				Applied Value		UUT	- IEC 61672
Range	Function	Frequency	Time	Level	Freq.	Reading	Class 1 Limit
(dB)		Weighting	Weighting	(dB)		(dB)	(dB)
30 - 130	L _A	A	Fast	94.00	63 Hz	67.8	-26.2 ± 1.5
					125 Hz	77.9	-16.1 ± 1.5
					250 Hz	85.4	-8.6 ± 1.4
					500 Hz	90.9	-3.2 ± 1.4
					1 kHz	94.1	Ref.
					2 kHz	95.3	$+1.2 \pm 1.6$
					4 kHz	95.1	$+1.0\pm1.6$
					8 kHz	93.1	-1.1 (+2.1 ; -3.1)
					16 kHz	86.1	-6.6 (+3.5 ; -17.0)

6.3.2 C-Weighting

UUT Setting				Applied Value		UUT	IEC 61672
Range	Function	Frequency	Time	Level	Freq.	Reading	Class 1 Limit
(dB)		Weighting	Weighting	(dB)		(dB)	(dB)
30 - 130	L _C	С	Fast	94.00	63 Hz	93.3	$\textbf{-0.8} \pm 1.5$
					125 Hz	93.9	-0.2 ± 1.5
					250 Hz	94.1	0.0 ± 1.4
					500 Hz	94.1	0.0 ± 1.4
					1 kHz	94.1	Ref.
					2 kHz	93.9	-0.2 ± 1.6
					4 kHz	93.3	$\textbf{-0.8} \pm 1.6$
					8 kHz	91.2	-3.0 (+2.1 ; -3.1)
					16 kHz	84.2	-8.5 (+3.5 ; -17.0)

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Certificate of Calibration 校正證書

Certificate No. : C231628 證書編號

Remarks : - UUT Microphone Model No. : UC-59 & S/N : 21625

- Mfr's Limit : IEC 61672 Class 1

- Uncertainties of Applied Value :	94 dB : 63 Hz - 125 Hz	$\pm 0.35 \text{ dB}$
	250 Hz - 500 Hz	$\pm 0.30 \text{ dB}$
	1 kHz	$\pm 0.20 \text{ dB}$
	2 kHz - 4 kHz	$\pm 0.35 \text{ dB}$
	8 kHz	$\pm 0.45 \text{ dB}$
	16 kHz	$\pm 0.70 \text{ dB}$
	104 dB : 1 kHz	$\pm 0.10 \text{ dB} \text{ (Ref. 94 dB)}$
	114 dB : 1 kHz	$\pm 0.10 \text{ dB} \text{ (Ref. 94 dB)}$

- The uncertainties are for a confidence probability of not less than 95 %.

Note :

Only the original copy or the laboratory's certified true copy is valid.

The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.



Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C231629 證書編號

ITEM TESTED / 送檢項目		(Job No. / 序引編號:IC23-0436)	Date of Receipt / 收件日期: 28 February 2023
Description / 儀器名稱	:	Sound Level Meter (EQ021)	- · · · ·
Manufacturer / 製造商	:	Rion	
Model No. / 型號	:	NL-52A	·
Serial No. / 編號	:	00620666	
Supplied By / 委託者	:	Action-United Environmental Services as	nd Consulting
		Unit A, 20/F., Gold King Industrial Build	ding,
		35-41 Tai Lin Pai Road, Kwai Chung, N.	.T.

TEST CONDITIONS / 測試條件

Temperature / 溫度 : (23 ± 2)°C Line Voltage / 電壓 : ---

Relative Humidity / 相對濕度 : (50±25)%

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 21 March 2023

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.

The results do not exceed specified limits.

These limits refer to manufacturer's published tolerances as requested by the customer.

The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory

- Agilent Technologies / Keysight Technologies

- Fluke Everett Service Center, USA

Tested By 測試	K C Lee Engineer	
Certified By	H C Chan	Dat
核證	Engineer	簽

Date of Issue 簽發日期 :

21 March 2023

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。

Sun Creation Engineering Limited - Calibration & Testing Laboratory c/o 4/F, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong 輝創工程有限公司 - 校正及檢測實驗所

c/o 香港新界屯門興安里一號四樓

Tel/電話: (852) 2927 2606 F	Fax/傳真: (852)	2744 8986
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Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C231629 證書編號

- 1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- 2. Self-calibration was performed before the test.
- 3. The results presented are the mean of 3 measurements at each calibration point.
- 4. Test equipment :

- 5. Test procedure : MA101N.
- 6. Results :
- 6.1 Sound Pressure Level
- 6.1.1 Reference Sound Pressure Level

UUT Setting				Applied Value		UUT	IEC 61672
Range	Function	Frequency	Time	Level	Freq.	Reading	Class 1 Limit
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)	(dB)
30 - 130	L _A	A	Fast	94.00	1	94.0	±11

6.1.2 Linearity

	UU	Γ Setting	Applie	d Value	UUT	
Range	Function	Frequency	Time	Level	Freq.	Reading
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)
30 - 130	L _A	А	Fast	94.00	1	94.0 (Ref.)
				104.00		104.0
				114.00		114.0

IEC 61672 Class 1 Limit : \pm 0.6 dB per 10 dB step and \pm 1.1 dB for overall different.

6.2 Time Weighting

		Applied Value		UUT	IEC 61672		
Range	Function	Frequency	Time	Level	Freq.	Reading	Class 1 Limit
(ub)		Weighting	Weighting	(dB)	(kHz)	(dB)	(dB)
30 - 130	L _A	А	Fast	94.00	1	94.0	Ref.
			Slow			94.0	± 0.3

本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。

c/o 4/F, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong

c/o 香港新界屯門興安里一號四樓

Tel/電話: (852) 2927 2606 Fax/傳真: (852) 2744 8986

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior

Sun Creation Engineering Limited - Calibration & Testing Laboratory

輝創工程有限公司 - 校正及檢測實驗所



輝創工程有限公司 Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C231629 證書編號

6.3 Frequency Weighting

6.3.1 A-Weighting

	UUT	Setting		Applied Value		UUT	IEC 61672
Range	Function	Frequency	Time	Level	Freq.	Reading	Class 1 Limit
(dB)		Weighting	Weighting	(dB)		(dB)	(dB)
30 - 130	L _A	А	Fast	94.00	63 Hz	67.8	-26.2 ± 1.5
					125 Hz	77.8	-16.1 ± 1.5
					250 Hz	85.3	-8.6 ± 1.4
					500 Hz	90.8	-3.2 ± 1.4
					1 kHz	94.0	Ref.
					2 kHz	95.2	$+1.2 \pm 1.6$
					4 kHz	95.0	$+1.0 \pm 1.6$
					8 kHz	93.0	-1.1 (+2.1 ; -3.1)
					16 kHz	86.1	-6.6 (+3.5 ; -17.0)

6.3.2 C-Weighting

	UUT	Setting		Applied Value		UUT	IEC 61672
Range	Function	Frequency	Time	Level	Freq.	Reading	Class 1 Limit
(dB)		Weighting	Weighting	(dB)		(dB)	(dB)
30 - 130	L _C	С	Fast	94.00	63 Hz	93.2	-0.8 ± 1.5
					125 Hz	93.8	-0.2 ± 1.5
					250 Hz	94.0	0.0 ± 1.4
					500 Hz	94.0	0.0 ± 1.4
					1 kHz	94.0	Ref.
					2 kHz	93.9	-0.2 ± 1.6
					4 kHz	93.2	-0.8 ± 1.6
					8 kHz	91.1	-3.0 (+2.1 ; -3.1)
					16 kHz	84.1	-8.5 (+3.5 ; -17.0)

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Certificate of Calibration 校正證書

Certificate No. : C231629 證書編號

Remarks : - UUT Microphone Model No. : UC-59 & S/N : 21627

- Mfr's Limit : IEC 61672 Class 1

			~
- Uncertainties of Applied Value :	94 dB	: 63 Hz - 125 Hz	$\pm 0.35 \text{ dB}$
		250 Hz - 500 Hz	$\pm 0.30 \text{ dB}$
		1 kHz	$\pm 0.20 \text{ dB}$
		2 kHz - 4 kHz	$\pm 0.35 \text{ dB}$
		8 kHz	$\pm 0.45 \text{ dB}$
		16 kHz	$\pm 0.70 \text{ dB}$
	104 dB :	1 kHz	$\pm 0.10 \text{ dB}$ (Ref. 94 dB)
	114 dB :	1 kHz	: ± 0.10 dB (Ref. 94 dB)

- The uncertainties are for a confidence probability of not less than 95 %.

Note :

Only the original copy or the laboratory's certified true copy is valid.

The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

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Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C231631 證書編號

ITEM TESTED / 送檢項目		(Job No. / 序引編號:IC23-0436)	Date of Receipt / 收件日期:	28 February 2023				
Description / 儀器名稱	:	Sound Level Meter (EQ067)						
Manufacturer / 製造商	:	Rion						
Model No. / 型號	:	NL-31	-					
Serial No. / 編號	:	00410221						
Supplied By / 委託者	:	Action-United Environmental Services a	nd Consulting					
		Unit A, 20/F., Gold King Industrial Building,						
		35-41 Tai Lin Pai Road, Kwai Chung, N.T.						
TEST CONDITIONS / 測試條件								

Temperature / 溫度 : $(23 \pm 2)^{\circ}$ C Line Voltage / 電壓 : ---

e Voltage / 電壓 : ----

Relative Humidity / 相對濕度 : (50±25)%

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 21 March 2023

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.

The results do not exceed specified limits.

These limits refer to manufacturer's published tolerances as requested by the customer.

The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Agilent Technologies / Keysight Technologies
- Fluke Everett Service Center, USA

Tested By 測試	:	K C Lee Engineer			
Certified By 核證	:	Chun Uhn Ch H C Chan Engineer	Date of Issue 簽發日期	:	21 March 2023

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

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Sun Creation Engineering Limited – Calibration & Testing Laboratory c/o 4/F, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong 輝創工程有限公司 - 校正及檢測實驗所

輝創工程有限公司 - 校正及檢測實驗所 c/o 香港新界屯門興安里一號四樓

c/o 香港新界电门興安里一號四樓 Tel/電話: (852) 2927 2606 Fax/傳

Fax/傳真: (852) 2744 8986 E-mail/電郵: callab@suncreation.com Website/網址: www.suncreation.com



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Certificate of Calibration 校正證書

Certificate No. : C231631 證書編號

- 1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours, and switched on to warm up for over 10 minutes before the commencement of the test.
- 2. Self-calibration was performed before the test.
- 3. The results presented are the mean of 3 measurements at each calibration point.
- 4. Test equipment :

Equipment ID CL280 CL281

Description 40 MHz Arbitrary Waveform Generator Multifunction Acoustic Calibrator

Certificate No. C230360 AV210017

- 5. Test procedure : MA101N.
- 6. Results :
- 6.1 Sound Pressure Level
- 6.1.1 Reference Sound Pressure Level

	UU	JT Setting		Applied	Value	UUT	IEC 61672 Class 1
Range	Mode	Frequency	Time	Level	Freq.	Reading	Limit
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)	(dB)
30 - 120	L _A	А	Fast	94.00	1	93.6	± 1.1

6.1.2 Linearity

	UU	JT Setting		Applied	Value	UUT
Range	Mode	Frequency	Time	ne Level Freq.		Reading
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)
30 - 120	L _A	Α	Fast	94.00	1	93.6 (Ref.)
				104.00		103.6
				114.00		113.6

IEC 61672 Class 1 Limit : \pm 0.6 dB per 10 dB step and \pm 1.1 dB for overall different.

6.2 Time Weighting

	UU	T Setting		Applied	l Value	UUT	IEC 61672 Class 1
Range	Mode	Frequency	Time	Level	Freq.	Reading	Limit
(dB)		Weighting	Weighting	(dB)	(kHz)	(dB)	(dB)
30 - 120	L _A	A	Fast	94.00	1	93.6	Ref.
			Slow			93.6	± 0.3

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory. 本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。


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Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C231631 證書編號

6.3 Frequency Weighting

6.3.1 A-Weighting

	, UU'	Γ Setting		Applied Value		UUT	IEC 61672 Class 1
Range	Mode	Frequency	Time	Level	Freq.	Reading	Limit
(dB)		Weighting	Weighting	(dB)	_	(dB)	(dB)
30 - 120	LA	A	Fast	94.00	63 Hz	67.3	-26.2 ± 1.5
					125 Hz	77.4	-16.1 ± 1.5
					250 Hz	84.9	-8.6 ± 1.4
					500 Hz	90.3	-3.2 ± 1.4
					1 kHz	93.6	Ref.
					2 kHz	94.8	$+1.2 \pm 1.6$
	<u>s.</u>				4 kHz	94.7	$+1.0\pm1.6$
					8 kHz	92.6	-1.1 (+2.1 ; -3.1)
					16 kHz	87.2	-6.6 (+3.5 ; -17.0)

6.3.2 C-Weighting

UUT Setting			Appl	ied Value	UUT	IEC 61672 Class 1	
Range	Mode	Frequency	Time	Level	Freq.	Reading	Limit
(dB)		Weighting	Weighting	(dB)		(dB)	(dB)
30 - 120	L _C	C	Fast	94.00	63 Hz	92.6	-0.8 ± 1.5
	C				125 Hz	93.3	-0.2 ± 1.5
					250 Hz	93.5	0.0 ± 1.4
					500 Hz	93.6	0.0 ± 1.4
9					1 kHz	93.6	Ref.
					2 kHz	93.5	-0.2 ± 1.6
					4 kHz	92.9	-0.8 ± 1.6
					8 kHz	90.7	-3.0 (+2.1 ; -3.1)
					16 kHz	85.3	-8.5 (+3.5 ; -17.0)

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.

written approval of this laboratory. 本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本質驗所書面批准。



Certificate of Calibration 校正證書

Certificate No. : C231631 證書編號

Remarks : - UUT Microphone Model No. : UC-53A & S/N : 322551

- Mfr's Limit : IEC 61672 Class 1			
- Uncertainties of Applied Value : 94 d	.B : 63 Hz - 125 Hz 250 Hz - 500 Hz 1 kHz 2 kHz - 4 kHz 8 kHz	: : : :	$\begin{array}{c} \pm \ 0.35 \ dB \\ \pm \ 0.30 \ dB \\ \pm \ 0.20 \ dB \\ \pm \ 0.35 \ dB \\ \pm \ 0.35 \ dB \\ \pm \ 0.45 \ dB \end{array}$
	16 kHz	3	$\pm 0.70 \ dB$
104	dB : 1 kHz	:	\pm 0.10 dB (Ref. 94 dB)
114	dB : 1 kHz	:	\pm 0.10 dB (Ref. 94 dB)

- The uncertainties are for a confidence probability of not less than 95 %.

Note :

Only the original copy or the laboratory's certified true copy is valid.

The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory. 本證書所載校正用之測試器材均可溯源至國際標準。局部複印本證書需先獲本實驗所書面批准。



輝創工程有限公司

Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

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Certificate No. : C235367 證書編號

ITEM TESTED / 送檢功	頁目	(Job No. / 序引編號:IC23-1813)	Date of Receipt / 收件日期: 31 August 202	23
Description / 儀器名稱	:	Sound Level Calibrator (EQ085)		
Manufacturer / 製造商	:	Rion		
Model No. / 型號	:	NC-73		
Serial No. / 編號	:	10655561		
Supplied By / 委託者	:	Action-United Environmental Services and	l Consulting	
Ur		Unit A, 20/F., Gold King Industrial Building,		
		35-41 Tai Lin Pai Road, Kwai Chung, N.T.		

TEST CONDITIONS / 測試條件

Temperature / 溫度 : (23 ± 2)°C Line Voltage / 電壓 : --- Relative Humidity / 相對濕度 : (50±25)%

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 13 September 2023

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.

The results do not exceed specified limits.

These limits refer to manufacturer's published or user's specified tolerances as requested by the customer. The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Hottinger Brüel & Kjær Calibration Laboratory, Denmark
- Agilent Technologies / Keysight Technologies
- Fluke Everett Service Center, USA

Tested By 測試	:	K C Lee Engineer			
Certified By 核證	:	K K Wong Engineer	Date of Issue 簽發日期	:	17 September 2023

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.



Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C235367 證書編號

- 1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours before the commencement of the test.
- 2. The results presented are the mean of 3 measurements at each calibration point.
- 3. Test equipment :

Equipment ID CL130 CL281 TST150A Description Universal Counter Multifunction Acoustic Calibrator Measuring Amplifier

<u>Certificate No.</u> C233799 CDK2302738 C221750

- 4. Test procedure : MA100N.
- 5. Results :
- 5.1 Sound Level Accuracy

UUT	Measured Value	Mfr's Spec.	Uncertainty of Measured Value
Nominal Value	(dB)	(dB)	(dB)
94 dB, 1 kHz	94.00	± 0.5	± 0.20

5.2 Frequency Accuracy

UUT Nominal Value	Measured Value	User's	Uncertainty of Measured Value
(kHz)	(kHz)	Spec.	(Hz)
1	0.951	1 kHz ± 6 %	± 1

Remarks : - The user's specified acceptance criteria (user's spec.) is a customer pre-defined operating tolerance of the UUT, suitable for one's own intended use.

- The uncertainties are for a confidence probability of not less than 95 %.

Note :

Only the original copy or the laboratory's certified true copy is valid.

The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.



輝創工程有限公司

Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C231627 證書編號

ITEM TESTED / 送檢項目		(Job No. / 序引編號:IC23-0436)	Date of Receipt / 收件日期: 28 February 2023	
Description / 儀器名稱	:	Sound Calibrator (EQ089)		
Manufacturer / 製造商	:	Rion		
Model No. / 型號	:	NC-75	~	
Serial No. / 編號	:	34680623		
Supplied By / 委託者	:	Action-United Environmental Services a	nd Consulting	
		Unit A, 20/F., Gold King Industrial Building,		
		35-41 Tai Lin Pai Road, Kwai Chung, N	.Т.	

TEST CONDITIONS / 測試條件

Temperature / 溫度 : (23 ± 2)°C Line Voltage / 電壓 : --- Relative Humidity / 相對濕度 : (50±25)%

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 21 March 2023

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.

The results do not exceed specified limits.

These limits refer to manufacturer's published tolerances as requested by the customer.

The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Agilent Technologies / Keysight Technologies
- Fluke Everett Service Center, USA

Tested By 測試	K C Lee Engineer			
Certified By 核證	: <u> </u>	Date of Issue 簽發日期	:	21 March 2023

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.



Certificate of Calibration 校正證書

Certificate No. : C231627 證書編號

- 1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours before the commencement of the test.
- 2. The results presented are the mean of 3 measurements at each calibration point.
- 3. Test equipment :

Equipment ID CL130 CL281 TST150A Description Universal Counter Multifunction Acoustic Calibrator Measuring Amplifier <u>Certificate No.</u> C223647 AV210017 C221750

- 4. Test procedure : MA100N.
- 5. Results :
- 5.1 Sound Level Accuracy

UUT	Measured Value	Mfr's Limit	Uncertainty of Measured Value
Nominal Value	(dB)	(dB)	(dB)
94 dB, 1 kHz	94.1	± 0.25	± 0.2

5.2 Frequency Accuracy

UUT Nominal Value	Measured Value	Mfr's	Uncertainty of Measured Value
(kHz)	(kHz)	Limit	(Hz)
1	1.000 0	$1~kHz\pm0.1~\%$	± 0.1

Remark : The uncertainties are for a confidence probability of not less than 95 %.

Note :

Only the original copy or the laboratory's certified true copy is valid.

The values given in this Certificate only relate to the values measured at the time of the test and any uncertainties quoted will not include allowance for the equipment long term drift, variations with environment changes, vibration and shock during transportation, overloading, mis-handling, or the capability of any other laboratory to repeat the measurement. Sun Creation Engineering Limited shall not be liable for any loss or damage resulting from the use of the equipment.

The test equipment used for calibration is traceable to the National Standards as specified in this certificate. This certificate shall not be reproduced except in full, without the prior written approval of this laboratory.



Appendix F3

Calibration Certificates for

Water Quality Monitoring Equipment



ALS Technichem (HK) Pty Ltd 11/F., Chung Shun Knitting Centre, 1 - 3 Wing Yip Street, Kwai Chung, N.T., Hong Kong **T:** +852 2610 1044 **F:** +852 2610 2021 www.alsglobal.com

HK2400952

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION

CONTACT: CLIENT: ADDRESS: MR BEN TAM ACTION-UNITED ENVIRONMENTAL SERVICES & RM A 20/F., GOLD KING IND BLDG, NO. 35-41 TAI LIN PAI ROAD, KWAI CHUNG, N.T.

	11112 100702
SUB-BATCH:	0
LABORATORY:	HONG KONG
DATE RECEIVED:	05-Jan-2024
DATE OF ISSUE:	16-Jan-2024

WORK ORDER:

GENERAL COMMENTS

The performance of the equipment stated in this report is checked with independent reference material and results compared against a calibrated secondary source.

The "Tolerance Limit" quoted is the acceptance criteria applicable for similar equipment used by the laboratory or quoted from relevant international standards.

The "Next Calibration Date" is recommended according to best practice principle as practised by the laboratory or quoted from relevant international standards.

The validity of equipment/ meter performance only applies to the result(s) stated in the report.

This report superseded any previous report(s) with same work order number.

EQUIPMENT INFORMATION

Equipment information (Brand name, Model No., Serial No. and Equipment No.) is provided by client.				
Equipment Type:	Multifunctional Meter			
Service Nature:	Performance Check			
Scope:	Conductivity, Dissolved Oxygen, pH Value, Turbidity, Salinity and Temperature			
Brand Name/ Model No.: Serial No./ Equipment No.: Date of Calibration:	[YSI]/ [Professional DSS] [20J101862/ 15H103928]/ [EQW018] 16-January-2024			

Ms. Lin Wai Yu, Iris Assistant Manager - Inorganics

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REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION



WORK ORDER:	HK2400952				
SUB-BATCH: DATE OF ISSUE: CLIENT:	0 16-Jan-2024 ACTION-UNITED ENVIRONMEN	TAL SERVICES & CONSULTING			
Equipment Type:	Multifunctional Meter				
Brand Name/ Model No.:	[YSI]/ [Professional DSS]				
Serial No./ Equipment No.:	[20J101862/ 15H103928]/ [EQW018]				
Date of Calibration:	16-January-2024	Date of Next Calibration:	16-April-2024		

PARAMETERS:

Conductivity

Method Ref: APHA (23rd edition), 2510B

Expected Reading (µS/cm)	Displayed Reading (µS/cm)	Tolerance (%)
146.9	158.1	+7.6
6667	6822	+2.3
12890	13460	+4.4
58670	57182	-2.5
	Tolerance Limit (%)	±10.0

Dissolved Oxygen

Method Ref: APHA (23rd edition), 4500O: G

Expected Reading (mg/L)	Displayed Reading (mg/L)	Tolerance (mg/L)
2.76	2.90	+0.14
4.46	4.56	+0.10
7.61	7.66	+0.05
	Tolerance Limit (mg/L)	±0.20

pH Value

Method Ref: APHA (23rd edition), 4500H: B

• •		
Expected Reading (pH unit)	Displayed Reading (pH unit)	Tolerance (pH unit)
4.0	3.87	-0.13
7.0	6.99	-0.01
10.0	9.98	-0.02
	Tolerance Limit (pH unit)	±0.20

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Ms. Lin Wai Yu, Iris Assistant Manager - Inorganics

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION



WORK ORDER:	HK2400952				
SUB-BATCH: DATE OF ISSUE: CLIENT:	0 16-Jan-2024 ACTION-UNITED ENVIRONMEN	TAL SERVICES & CONSULTING			
Equipment Type:	Multifunctional Meter				
Brand Name/ Model No.: Serial No./ Equipment No.:	[YSI]/ [Professional DSS]				
	[20J101862/ 15H103928]/ [EQW	/018]			
Date of Calibration:	16-January-2024	Date of Next Calibration:	16-April-2024		

PARAMETERS:

Turbidity

Method Ref: APHA (23rd edition), 2130B

Expected Reading (NTU)	Displayed Reading (NTU)	Tolerance (%)
0	0.28	
4	4.25	+6.3
40	36.66	-8.4
80	80.26	+0.3
400	360.97	-9.8
800	743.73	-7.0
	Tolerance Limit (%)	±10.0

Salinity

Method Ref: APHA (23rd edition), 2520B

Expected Reading (ppt)	Displayed Reading (ppt)	Tolerance (%)
0	0.01	
10	10.91	+9.1
20	21.62	+8.1
30	31.98	+6.6
	Tolerance Limit (%)	±10.0

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Ms. Lin Wai Yu, Iris Assistant Manager - Inorganics

REPORT OF EQUIPMENT PERFORMANCE CHECK/CALIBRATION



SUB-BATCH: DATE OF ISSUE:0 16-Jan-2024 ACTION-UNITED ENVIRONMENTAL SERVICES & CONSULTINGEquipment Type: Brand Name/ Model No.: Serial No./ Equipment No.:Multifunctional Meter [YSI]/ [Professional DSS]Equipment No.: Date of Calibration:16-January-2024Date of Next Calibration:16-April-2024	WORK ORDER:	HK2400952		
Equipment Type:Multifunctional MeterBrand Name/[YSI]/ [Professional DSS]Model No.:[YSI]/ [Professional DSS]Serial No./[20J101862/15H103928]/ [EQW018]Equipment No.:[20J101862/15H103928]/ [EQW018]Date of Calibration:16-January-2024Date of Next Calibration:	SUB-BATCH: DATE OF ISSUE: CLIENT:	0 16-Jan-2024 ACTION-UNITED ENVIRONMEN	TAL SERVICES & CONSULTING	
Brand Name/ Model No.:[YSI]/ [Professional DSS]Serial No./ Equipment No.:[20J101862/15H103928]/ [EQW018]Date of Calibration:16-January-2024Date of Next Calibration:16-April-202416-April-2024	Equipment Type:	Multifunctional Meter		
Serial No./ Equipment No.:[20J101862/15H103928]/ [EQW018]Date of Calibration:16-January-2024Date of Next Calibration:16-April-2024	Brand Name/ Model No.:	[YSI]/ [Professional DSS]		
Date of Calibration:16-January-2024Date of Next Calibration:16-April-2024	Serial No./ Equipment No.:	[20J101862/ 15H103928]/ [EQW	/018]	
	Date of Calibration:	16-January-2024	Date of Next Calibration:	16-April-2024

PARAMETERS:

Temperature

Method Ref: Section 6 of International Accreditation New Zealand Technical Guide No. 3 Second edition March 2008: Working Thermometer Calibration Procedure.

······································								
Expected Reading (°C)	Displayed Reading (°C)	Tolerance (°C)						
10.0	8.9	-1.1						
23.0	22.5	-0.5						
40.0	38.6	-1.4						
	Tolerance Limit (°C)	±2.0						

Remark: "Displayed Reading" presents the figures shown on item under calibration / checking regardless of equipment precision or significant figures.

Ms. Lin Wai Yu, Iris Assistant Manager - Inorganics



Appendix G

Meteorological Data

CEDD Service Contract No. WD/07/2022 Yuen Long South First Phase Development – Environmental Team Monthly Environmental Monitoring & Audit Report – February 2024



Date				Wetland Park Station			
		Weather	Total Rainfall (mm)	Mean Air Temperature (°C)	Wind Speed (km/h)	Mean Relative Humidity (%)	Wind Direction
1-Feb-24	Thu	Warm in the afternoon. Light winds.	0.2	24.3	3.5	85.5	E/NE
2-Feb-24	Fri	Sunny periods. Coastal fog patches in the morning.	Trace	24.5	4	83.7	W/NW
3-Feb-24	Sat	occasionally fresh with one or two light rain patches later.	Trace	22.3	5	84	E/NE
4-Feb-24	Sun	Moderate northeasterly winds.	Trace	22.9	3.7	87.5	NE
5-Feb-24	Mon	Mainly cloudy with one or two rain patches and coastal fog.	Trace	22.1	3.5	85	E/NE
6-Feb-24	Tue	Mainly cloudy with one or two rain patches tonight	0.6	22.6	6.2	78.5	E/NE
7-Feb-24	Wed	Cloudy with a few rain patches.	Trace	17.6	4.5	92.5	NW
8-Feb-24	Thu	It will be cold. Cloudy with a few rain patches.	2.2	12.2	5.5	87	N/NE
9-Feb-24	Fri	Mainly cloudy with one or two light rain patches.	0.6	13.1	5	80	N/NE
10-Feb-24	Sat	It will be cold.Moderate north to northeasterly winds.	0.5	16.9	5	70	N/NE
11-Feb-24	Sun	It will be cold. Cloudy with a few rain patches.	It will be cold. Cloudy with a few rain 0		4	59	N/NE
12-Feb-24	Mon	Rather warm during the day. Light winds.	Rather warm during the day. Light 0		5	69.5	E/NE
13-Feb-24	Tue	Light to moderate easterly winds.	0	20.7	5	77	E/NE
14-Feb-24	Wed	Mainly fine. Warm during the day.	0	22	4	77.5	W/NW
15-Feb-24	Thu	Light to moderate easterly winds.	0	23.4	5	75	W
16-Feb-24	Fri	Mainly fine. Warm during the day.	Trace	21.5	6	78	E/NE
17-Feb-24	Sat	Light to moderate southeasterly winds.	Trace	22.7	6.2	79	E/NE
18-Feb-24	Sun	Sunny intervals in the afternoon.	0	25.9	8.7	74	S/SE
19-Feb-24	Mon	Mainly cloudy. Foggy in the morning and at night.	0	24.5	7	86.2	S/SE
20-Feb-24	Tue	Sunny periods. Warm during the day.	0	27.6	10.7	77.5	S/SE
21-Feb-24	Wed	Coastal fog and one or two light rain patches at night.	0	26.4	8.5	80	S/SE
22-Feb-24	Thu	Foggy with one or two rain patches in the morning and at night.	0	26.5	6.2	78.5	S/SE
23-Feb-24	Fri	Slightly cooler and mainly cloudy with one or two light rain patches.	Trace	21.9	5	79.7	NE
24-Feb-24	Sat	Light to moderate east to southeasterly winds.	Trace	19.4	6	69.5	N
25-Feb-24	Sun	Mainly cloudy. Bright periods in the afternoon.	0	17.1	5	66	E/NE
26-Feb-24	Mon	Cool with one or two light rain patches tonight.	Trace	19.6	6	67.5	E/NE
27-Feb-24	Tue	Mainly cloudy. Sunny intervals in the afternoon.	Trace	18.4	4	63.5	N/NE
28-Feb-24	Wed	Mainly cloudy. Moderate to fresh easterly winds.	Trace	19.7	3.7	74.5	W/NW
29-Feb-24	Thu	Mainly cloudy. Bright periods in the afternoon.	Trace	19.1	6	88	W/NW



Appendix H

Event and Action Plan



Event			Action		
Event	ET		IEC	ER	Contractor
Action level exceedance for one sample	 Identify investigate the of exceedance and remedial measure Inform IEC and 1 Repeat measure confirm finding; Increase m frequency to dail 	source, 1. causes of propose res; 2. ER; ement to conitoring	 Check monitoring data submitted by ET; Check Contractor's working method 	1. Notify Contractor.	 Rectify any unacceptable practice; Amend working methods if appropriate.
Action level exceedance for two or more consecutive samples	 Identify source; Inform IEC and I Advise the ER effectiveness proposed measures; Repeat measure confirm findings Increase m frequency to dail Discuss with I Contractor on actions required; If exceedance c arrange meetir IEC and ER; If exceedance cease a 	ER; on the of the 2. remedial ments to ; onitoring ly; EC and remedial continues, ng with stops, additional	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ET on the effectiveness of the proposed remedial measures; Supervise Implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; Ensure remedial measures properly implemented. 	 Submit proposals for remedial to ER within 3 working days of notification; Implement the agreed proposals; Amend proposal if appropriate.
Limit level exceedance for one sample	 Identify investigate the of exceedance and remedial measure Inform ER, C and EPD; Repeat measure confirm finding; Increase m frequency to dail Assess effective Contractor's actions and ke EPD and ER inf the results. 	source, 1. causes of propose es; 2. contractor ement to onitoring ly; 4 eness of remedial eep IEC, cormed of 5	 Check monitoring data submitted by ET; Check Contractor's working method; Discuss with ET and Contractor on possible remedial measures; Advise the ER on the effectiveness of the proposed remedial measures; Supervise implementation of remedial measures. 	 Confirm receipt of notification of failure in writing; Notify Contractor; Ensure remedial measures properly implemented. 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals; Amend proposal if appropriate.
Limit level exceedance for two or more consecutive samples	 Notify IEC, Contractor and E Identify source; Repeat measure confirm findings Increase m frequency to dail Carry out ana Contractor's procedures to dail 	ER, 1. EPD; ement to ;; 2 onitoring ly; lysis of working letermine	 Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractor's remedial actions whenever necessary to assure their effectiveness and 	 Confirm receipt of notification of failure in writing; Notify Contractor; In consultation with the IEC, agree with the 	 Take immediate action to avoid further exceedance; Submit proposals for remedial actions to IEC within 3 working days of notification; Implement the agreed proposals;

Event / Action Plan for Air Quality

CEDD Service Contract No. WD/07/2022 Yuen Long South First Phase Development – Environmental Team Monthly Environmental Monitoring & Audit Report – February 2024



Event		Action		
Event	ЕТ	IEC	ER	Contractor
	possible mitigation to be implemented;	advise the ER accordingly;	Contractor on the remedial	5 Resubmit proposals if problem still not
	6. Arrange meeting with IEC and ER to discuss the remedial actions to be taken;	3. Supervise the implementation of remedial measures.	measures to be implemented;4. Ensure remedial	under control; 6 Stop the relevant portion of works as determined by the
	7. Assess effectiveness of Contractor's remedial actions and keep IEC,		measures properly implemented;	ER until the exceedance is abated.
	EPD and ER informed of the results;		5. If exceedance continues,	
	 If exceedance stops, cease additional monitoring. 		consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.	

Notes:

ET - Environmental Team

IEC -- Independent Environmental Checker

ER – Engineer's Representative





Fyont				Action							
Event		ET		IEC		ER	Contractor				
Action	1.	Notify the IEC, ER and	1.	Review the	1.	Confirm receipt of	1.	Submit noise			
Level		Contractor;		monitoring data		notification of		mitigation			
Exceedance	2.	Carry out investigation;		submitted by the ET;		failure in writing;		proposals to the			
	3.	Report the results of	2.	Review the	2.	Notify the		ER and IEC and			
		investigation to the IEC, ER		construction methods		Contractor;		copy to the ET;			
		and Contractor;		and proposed	3.	Require the	2.	Implement noise			
	4.	Discuss with the Contractor		remedial measures by		Contractor to		mitigation			
		and formulate remedial		the Contractor, and		propose remedial		proposals.			
		measures;		advise the ET and ER		measures for the					
	5.	Increase monitoring		if the proposed		analyzed noise					
		frequency to check		remedial measures		problem;					
		mitigation effectiveness.		would be sufficient;	4.	Ensure remedial					
			3.	Supervise the		measures are					
				implementation of		properly					
				remedial measures.		implemented.					
Limit	1.	Identify sources.	1.	Discuss amongst the	1	Confirm receipt of	1	Take immediate			
Level	2.	Inform IEC, ER, EPD and		ER, ET and		notification of		action to avoid			
Exceedance		Contractor;		Contractor on the		exceedance in		further			
	3.	Repeat measurements to		potential remedial		writing;		exceedance;			
		confirm findings;		actions;	2	Notify the	2	Submit proposals			
	4.	Increase the monitoring	2.	Review the		Contractor.		for remedial			
		frequency;		Contractor's	3	Require the		action to the ER			
	5.	Carry out analysis of the		remedial action		Contractor to		and IEC and copy			
		Contractor's working		whenever necessary		propose remedial		to the ET within 3			
		procedures with the ER and		to assure their		measures for the		working days of			
		Contractor to determine		effectiveness and		analyzed noise		notification;			
		possible mitigations to be		advise the ER		problems;	3	Implement the			
		implemented;		accordingly;	4	Ensure remedial		agreed proposals;			
	6.	Inform IEC, ER, EPD and	3.	Supervise the		measures are	4	Resubmit			
		Contractor the causes and		implementation of		properly		proposals if			
		actions taken for the		remedial measures.	_	implemented;		problems still not			
		exceedances;			5	If exceedance		under control; stop			
	7.	Assess the effectiveness of				continues,		the relevant			
		the Contractor's remedial				consider what		portion of works			
		action with the ER and keep				portion of work is		as determined by			
		the IEC informed of the				responsible and		the ER until the			
		results;				instruct the		exceedance is			
	8.	If exceedance stops, cease				Contractor to stop		abated.			
		additional monitoring.				that portion of					
						works until the					
					1	exceedance is					
						abated.					

Event / Action Plan for Construction Noise

Notes:

ET - Environmental Team

IEC - Independent Environmental Checker

ER – Engineer's Representative

Fyent		Action	
Event	ET	IEC ER	Contractor
Action level	1. Repeat in-situ	1. Discuss with ET, 1. Discuss with	1 1. Identify source(s) of
exceedance for	measurement on	ER and IEC, ET and	l impact;
one sampling	next day of	Contractor on the Contractor on the	2. Inform the ER and
day	exceedance to	implemented implemented	confirm notification of
	confirm findings;	mitigation mitigation	the non-compliance in
	2. Inform IEC,	measures; measures;	writing;
	Contractor and	2. Review 2. Make agreemen	t 3. Rectify unacceptable
	ER;	proposals on on the remedia	practice;
	3. Check monitoring	remedial measures to b	³ 4. Check all plant and
	data, all plant,	measures implemented;	equipment;
	equipment and	submitted by and	5. Consider changes of
	Contractor's	advise the FR implementation	working methods;
	working methods;	advise the EK implementation	6. Discuss with ER, ET
		2 Poviou and romadial	and IEC and purpose
	4. Discuss remedial	advise the ET measures	remedial measures to
	and Contractor	and FR on the	IEC and ER; and
	and FR	effectiveness of	7. Implement the agreed
	and ER.	the implemented	mitigation measures.
		mitigation	
		measures.	
Action level	1. Repeat in-situ	1. Discuss with ET. 1. Discuss with ET	. 1. Identify source(s) of
exceedance for	measurement on	Contractor and IEC and	impact;
more than one	next day of	ER on the Contractor on the	2. Inform the ER and
consecutive	exceedance to	implemented proposed	confirm notification of
sampling days	confirm findings;	mitigation mitigation	the non-compliance in
	2. Inform IEC,	measures; measures;	writing;
	contractor and ER;	2. Review the 2. Make agreement	t 3. Rectify unacceptable
	3. Check monitoring	proposed on the remedia	practice;
	data, all plant,	remedial measures to b	² 4. Check all plant and
	equipment and	measures implemented;	equipment and consider
	Contractor's	submitted by and	changes of working
	working methods;	advise the EP IFC	, methods;
	4. Discuss remedial	accordingly: and Contractor on the	5. Discuss with ET, IEC
	measures with IEC,	3 Review and effectiveness of	f and ER and submit
	contractor and ER;	advise the FT the implementer	proposal of remedial
	allu 5 Enner namedial	and ER on the remedial	measures to ER and
	5. Ensure remedial	effectiveness of measures.	lec within 3 working
	implemented	the implemented	6 Implement the agreed
	implemented.	mitigation	b. Implement the agreed
		measures.	mitigation measures
Limit level	1. Repeat	1. Discuss with 1. Discuss with ET	, 1. Identify source(s) of
exceedance for	measurement on	ET, Contractor IEC and	l impact;
one sampling	next day of	and ER on the Contractor on the	2. Inform the ER and
day	exceedance to	implemented implemented	confirm notification of
	confirm findings;	mitigation remedial	the non-compliance in
	2. Inform IEC,	measures; measures;	writing;
	contractor and ER;	2. Review the 2. Request	3. Rectify unacceptable
	3. Rectify	proposed Contractor to	practice;
	unacceptable	measures the weatting	4. Check all plant and
	practice;	submitted by methods:	equipment and consider
	4. Check monitoring	Contractor and 2 Males some second	changes of working
	data, all plant,	advise the ER on the remedia	methods;
	equipment and	accordingly: measures to h	5. Discuss with ET, IEC
	working methods:	and implemented	and EK and submit
	5 Consider -1	3. Review and and	proposal of additional
	5. Consider changes	ulu ulu	mugation measures to

Event / Action Plan for Water Quality

Ford Business International Ltd.

CEDD Service Contract No. WD/07/2022 Yuen Long South First Phase Development – Environmental Team Monthly Environmental Monitoring & Audit Report – February 2024



Evont		A							
Event	ET	IEC	ER	Contractor					
	of working methods; 6. Discuss mitigation measures with IEC, ER and Contractor; and 7. Ensure the agreed remedial measures are implemented	advise the ET and ER on the effectiveness of the implemented mitigation measures.	4. Discuss with ET, IEC and Contractor on the effectiveness of the implemented remedial measures.	ER and IEC within 3 working days of notification; and6. Implement the agreed remedial measures.					
Limit level exceedance for more than one consecutive sampling days	 Inform IEC, contractor and ER; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, ER and Contractor; Ensure mitigation measures are implemented; and Increase the monitoring frequency to daily until no exceedance of Limit Level for two consecutive days. 	 Discuss with ET, Contractor and ER on the implemented mitigation measures; Review the proposed remedial measures submitted by Contractor and advise the ER accordingly; and Review and advise the ET and ER on the effectiveness of the implemented mitigation measures. 	 Discuss with ET, IEC and Contractor on the implemented remedial measures; Request Contractor to critically review the working methods; Make agreement on the remedial measures to be implemented; Discuss with ET and IEC on the effectiveness of the implemented mitigation measures; and Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the dredging activities until no exceedance of Limit level. 	 Identify source(s) of impact; Inform the ER and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment and consider changes of working methods; Discuss with ET, IEC and ER and submit proposal of additional mitigation measures to ER and IEC within 3 working days of notification; and Implement the agreed remedial measures. As directed by the ER, to slow down or stop all or part of the dredging activities until no exceedance of Limit level. 					

Notes:

ET - Environmental Team

IEC -- Independent Environmental Checker

ER – Engineer's Representative



Appendix I

Monitoring Schedule



Impact Monitoring Schedule for Reporting Month – February 2024

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1	2 Water quality	3
4	5 Water quality	6 1-hr TSP X3 Noise	7 Water quality	8	9 Water quality 1-hr TSP X3	10
11	12	13	14	15 Water quality 1-hr TSP X3 Noise	16	17 Water quality
18	19 Water quality	20	21 Water quality 1-hr TSP X3 Noise	22	23 Water quality	24
25	26 Water quality	27 1-hr TSP X3 Noise	28 Water quality	29		





Impact Monitoring Schedule for next Reporting Month – March 2024

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					l Water quality	2
3	4 Water quality 1-hr TSP X3 Noise	5	6 Water quality	7	8 Water quality	9 1-hr TSP X3
10	11 Water quality	12	13 Water quality	14	15 Water quality 1-hr TSP X3 Noise	16
17	18 Water quality	19	20 Water quality	21 1-hr TSP X3 Noise	22 Water quality	23
24	25 Water quality	26	27 Water quality 1-hr TSP X3 Noise	28	29	30
31						



Appendix J1

Detailed Monitoring Results



Construction Dust Monitoring Results

Location: DM-1

			1-hour TSP (µg/m³)		Action Loval	
Date	Start Time	1 st reading	2 nd reading	3 rd reading	μg/m ³)	Limit Level(µg/m³)
6-Feb-24	10:15	48	37	45	260	500
15-Feb-24	11:30	87	87	126	260	500
21-Feb-24	9:00	153	114	122	260	500
27-Feb-24	13:00	50	56	59	260	500

Location: DM-2

			1-hour TSP (μg/m³)	-	Action Level	
Date	Start Time	1 st reading	2 nd reading	3 rd reading	(μg/m ³)	Limit Level(µg/m ³)
6-Feb-24	9:50	118	106	82	260	500
15-Feb-24	11:30	85	98	79	260	500
21-Feb-24	10:00	39	57	51	260	500
27-Feb-24	9:10	68	70	73	260	500



Construction Noise Monitoring Results

Location:	CM1a
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Date	Start Time	1 st Leq _{5min}	L10	L90	2 nd Leq _{5min}	L10	L90	3 nd Leq _{5min}	L10	L90	4 th Leq _{5min}	L10	L90	5 th Leq _{5min}	L10	L90	6 th Leq _{5min}	L10	L90	Leq30min	Limit Level
6 Feb 24	10:45	61.4	62.2	46.8	56.4	55.0	44.5	50.5	52.4	48.5	52.8	55.1	48.6	55.2	53.7	46.5	52.6	56.3	48.4	56	75
15 Feb 24	15:40	52.0	51.0	45.6	49.6	52.8	46.0	49.1	51.3	46.8	49.9	51.6	46.8	51.7	52.7	46.5	53.4	59.0	48.0	51	75
21 Feb 24	11:15	53.7	56.4	48.4	55.1	59.3	48.0	54.1	57.9	52.9	58.4	57.9	53.7	55.9	58.6	52.2	60.4	63.4	53.1	57	75
27-Feb-24	13:00	53.2	55.5	51.0	54.6	56.2	51.5	55.0	58.2	52.5	54.6	57.0	52.5	53.0	54.5	51.8	55.9	57.2	52.6	54	75

Location: CM2a

Date	Start Time	1 st Leq _{5min}	L10	L90	2 nd Leq _{5min}	L10	L90	3 nd Leq _{5min}	L10	L90	4 th Leq _{5min}	L10	L90	5 th Leq _{5min}	L10	L90	6 th Leq _{5min}	L10	L90	Leq30min	Façade Correction	Limit Level
6-Feb-24	13:40	53.5	55.4	51.8	52.1	55.5	54.1	58.2	59.9	50.5	53.5	57.1	50.4	64.2	66.4	57.1	58.1	60.4	55.3	59	62	75
15-Feb-24	14:35	57.6	59.2	54.9	60.1	62.7	56.7	59.4	60.8	56.9	60.7	63.4	56.6	61.5	64.4	57	62.2	65.4	56.8	60	63	75
21-Feb-24	10:10	64.1	68.2	52.8	58.5	60.9	54.6	58.7	61.5	54.6	60.6	63.3	54.5	65.5	66.6	52.5	66.8	68	56.4	64	67	75
27-Feb-24	9:45	60.1	62.1	57.2	62.1	63.9	57.1	59.9	62.9	57.4	60	62.9	57.5	59.8	62.4	56.7	60.5	63.4	57.3	60	63	75

Remark: façade correction (+3 dB(A) was added according to acoustical principles and EPD guidelines

Location: CM3

Date	Start Time	1 st Leq _{5min}	L10	L90	2 nd Leq _{5min}	L10	L90	3 nd Leq _{5min}	L10	L90	4 th Leq _{5min}	L10	L90	5 th Leq _{5min}	L10	L90	6 th Leq _{5min}	L10	L90	Leq30min	Limit Level
6-Feb-24	14:15	60.3	62.1	55.1	61.3	63.0	58.2	60.2	64.2	59.4	70.8	71.5	66.5	73.4	79.9	66.0	73.1	76.5	67.5	70	75
15-Feb-24	13:00	66.2	65.8	56.1	62.2	64.5	56.4	64.3	67.6	56.0	61.5	64.7	56.0	62.5	66.3	56.2	62.9	65.9	56.2	64	75
21-Feb-24	8:30	62.1	64.5	56.2	63.6	65.2	55.9	65	67.5	57.2	64.5	66.1	57.1	66.4	68.3	56.9	69.4	69.6	60.8	66	75
27-Feb-24	10:40	65.1	72.7	62.2	64.7	68.9	62.5	65.2	69.4	62	66.1	70.3	62.8	65.3	69.9	62.5	65.3	69.1	62.3	65	75

Location: CM4

Date	Start Time	1 st Leq _{5min}	L10	L90	2 nd Leq _{5min}	L10	L90	3 nd Leq _{5min}	L10	L90	4 th Leq _{5min}	L10	L90	5 th Leq _{5min}	L10	L90	6 th Leq _{5min}	L10	L90	Leq30min	Limit Level
6-Feb-24	13:05	59.3	60.9	40.9	64.5	67.4	50.0	56.0	59.4	47.9	60.5	62.2	48.3	59.2	60.4	49.7	59.4	58.7	41.3	61	75
15-Feb-24	13:45	70.8	74.8	59.1	64.0	67.9	56.6	64.7	68.4	57.3	69.6	72.5	58.6	66.8	70.4	59.0	69.7	73.0	60.1	68	75
21-Feb-24	9:15	70.2	74.6	57.2	65.2	68.2	58.2	67.3	71.9	56.0	63.2	66.1	56.2	62.3	65.5	54.9	69.3	73.0	56.1	67	75
27-Feb-24	9:05	69.6	72.7	60.9	69.5	73.1	61.6	71.5	73.7	60.9	69.4	72.3	61.2	70.6	74.4	62.3	69.1	72.5	61.5	70	75



Location: CM8a

Date	Start Time	1 st Leq _{5min}	L10	L90	2 nd Leq _{5min}	L10	L90	3 nd Leq _{5min}	L10	L90	4 th Leq _{5min}	L10	L90	5 th Leq _{5min}	L10	L90	6 th Leq _{5min}	L10	L90	Leq30min	Façade Correction	Limit Level
6 Feb 24	11:35	55.9	58.4	50.8	52.7	54.6	50.1	53.5	55.4	50.2	52.1	53.1	49.4	52.7	54.3	50.1	59.7	62.6	51.2	55	58	75
15-Feb-24	16:40	58.2	59.9	56.1	57.3	58.4	55.8	56.1	57.4	51.0	59.5	62.5	50.7	61.4	61.3	51.5	57.4	60.3	51.0	59	62	75
21-Feb-24	13:00	53.5	57.3	52.3	55.7	58.3	50.2	53.6	56.1	50.6	53.9	55.8	50.0	53.9	54.9	50.2	53.3	54.9	50.8	54	57	75
27-Feb-24	13:50	55.8	58.4	51.3	56.2	59.7	51.5	60.3	62.4	55.1	58.6	60.2	54.9	57.4	59.8	53.1	55.1	57.9	52.8	58	61	75

Remark: façade correction (+3 dB(A) was added according to acoustical principles and EPD guidelines



Water Quality Monitoring Results Location: M1a

Date	2 Feb 24															
Location	Time	Depth (m)	Temp) (oC)	DO (r	ng/L)	DO	(%)	Turbidi	ty (NTU)	p	H	Sali	nity	SS(1	mg/L)
M1-	11.15	0.20	21.6	21.6	4.18	4 1	47.6	47.1	23.5	22.2	7.59	76	0.32	0.22	27.7	267
MITa	11:15	0.30	21.6	21.0	4.02	4.1	46.5	4/.1	22.8	23.2	7.59	/.0	0.32	0.32	25.6	20.7

Date	5 Feb 24															
Location	Time	Depth (m)	Temp	o (oC)	DO (r	ng/L)	DO	(%)	Turbidi	ty (NTU)	p	Н	Sali	nity	SS(1	ng/L)
Mla	11.15	0.20	20.7	20.7	2.72	27	30.4	20.0	8.5	9 <i>1</i>	7.88	7.0	0.16	0.16	15.1	14.0
IVITa	11:15	0.50	20.7	20.7	2.68	2.1	29.6	50.0	8.3	0.4	7.88	7.9	0.16	0.10	14.4	14.8

Date	7 Feb 24															
Location	Time	Depth (m)	Temp) (0C)	DO (I	ng/L)	DO	(%)	Turbidi	ty (NTU)	р	Н	Sali	nity	SS(1	mg/L)
Mla	10.15	0.20	20.7	20.7	2.03	2.0	22.7	22.0	14.3	1/1	7.12	7.1	0.16	0.16	8.8	11.2
Ivi i a	10:15	0.50	20.7	20.7	1.92	2.0	21.2	22.0	13.9	14.1	7.12	/.1	0.16	0.10	13.6	11.2

Date	9 Feb 24															
Location	Time	Depth (m)	Temp) (0C)	DO (I	ng/L)	DO	(%)	Turbidi	ty (NTU)	p	H	Sali	nity	SS(mg/L)
M1-	10.25	0.20	19.2	10.2	3.92	2.0	42.5	41.0	22.1	21.6	7.22	7.2	0.26	0.26	35	21.0
MTa	10:25	0.30	19.2	19.2	3.83	5.9	41.2	41.9	21.2	21.0	7.22	1.2	0.26	0.20	26.9	31.0
	15 Feb 24															

Location	Time	Depth (m)	Temp) (0C)	DO (1	ng/L)	DO	(%)	Turbidi	ty (NTU)	р	H	Sali	nity	SS(1	mg/L)
M1-	12.25	0.20	22.2	22.2	5.01	5.0	57.6	57.0	8.4	07	7.35	7.4	0.18	0.10	15.1	24.4
Ivi i a	12:55	0.30	22.2	22.2	4.98	5.0	56.8	37.2	8.2	0.5	7.35	/.4	0.18	0.18	33.6	24.4

Date	17 Feb 24															
Location	Time	Depth (m)	Temp) (0C)	DO (I	ng/L)	DO	(%)	Turbidi	ty (NTU)	p	H	Sali	nity	SS(I	mg/L)
M1a	13.55	0.30	22	22	4.19	41	47.9	47 1	10.0	96	7.55	7.6	0.18	0.18	13.8	13.6
Iviia	15.55	0.50	22	22	4.02	7.1	46.2	7/1	9.3	2.0	7.55	7.0	0.18	0.10	13.3	15.0

Date	19 Feb 24															
Location	Time	Depth (m)	Тетр	(0C)	DO (r	ng/L)	DO	(%)	Turbidi	ty (NTU)	pl	H	Sali	nity	SS(1	ng/L)
Mla	12.55	0.20	22.2	22.2	4.1	4.1	47.0	46.0	25.2	25.2	7.50	75	0.15	0.15	22.8	22.5
IviTa	15:55	0.50	22.2	22.2	4.07	4.1	46.7	40.9	25.2	23.2	7.50	7.5	0.15	0.15	22.2	22.3
Date	21 Feb 24															
Location	Time	Depth (m)	Temp	Temp (oC)		ng/L)	DO	(%)	Turbidi	ty (NTU)	p	H	Sali	nity	SS(1	ng/L)
M1a	12:40	0.30	22.9	22.9	2.17	2.2	25.0	25.9	15.8	16.0	7.42	7.4	0.18	0.18	29.3	44.7

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							-	
	22.0	2 2 2	26.0	16.2	7 40	0.10	(0	
	22.9	2.23	20.8	10.5	1.42	0.18	00	

Date	23 Feb 24															
Location	Time	Depth (m)	Temp	(oC)	DO (1	ng/L)	DO	(%)	Turbidi	ty (NTU)	р	Н	Sali	nity	SS(1	mg/L)
M1-	10.45	0.20	22.2	22.2	2.44	2.5	28.2	20.0	19.5	10.0	7.37	7.4	0.17	0.17	53	51.0
IVITa	10:45	0.30	22.2	22.2	2.52	2.5	29.7	29.0	20.2	19.9	7.37	/.4	0.17	0.17	50.7	51.9

Date	26 Feb 24								
Location	Time	Depth (m)	Temp (oC)	DO (mg/L)	DO (%)	Turbidity (NTU)	рН	Salinity	SS(mg/L)
M1-	12.05	0.20	19.8	7.56	83.1 82.1	9.1	7.54 7.5	0.23	9.8 0.5
MTa	12:05	0.30	19.8	7.53	83.0 83.1	9.0 9.1	7.54	0.23 0.23	9.2 9.5

Date	28 Feb 24															
Location	Time	Depth (m)	Temp) (0C)	DO (I	ng/L)	DO	(%)	Turbidi	ty (NTU)	р	Н	Sali	nity	SS(1	mg/L)
M1-	12.25	0.20	21.2	21.2	3.66	2.6	40.7	40.4	5.6	5 (7.09	7.1	0.23	0.22	7.6	11.6
IviTa	12:33	0.30	21.2	21.2	3.61	3.0	40.1	40.4	5.6	5.0	7.09	/.1	0.23	0.23	15.6	11.0



Water Quality Monitoring Results

Location: I	vi2a															
Date	2 Feb 24															
Location	Time	Depth (m)	Temp	p (oC) DO (mg/L)			DO	(%)	Turbidi	ty (NTU)	p	Н	Sali	nity	SS(n	ng/L)
M2a	11.25	0.15	21	21	6.9	69	77.8	74.2	5.0	4.0	7.72	77	0.20	0.20	9.8	0.6
ivi2a	11:55	0.15	21	21	6.6	0.8	70.8	/4.3	4.8	4.9	7.72	1.1	0.20	0.20	9.4	9.0

Date	5 Feb 24															
Location	Time	Depth (m)	Temp) (0C)	DO (1	mg/L)	DO	(%)	Turbidi	ty (NTU)	р	Н	Sali	nity	SS(1	mg/L)
Ma	11.25	0.15	20.2	20.2	6.5	6.4	72.0	20.67	8.4	07	7.85	7.0	0.20	0.20	8.7	<u>ہ ہ</u>
iviZa	11:55	0.15	20.2	20.2	6.3	0.4	7.3	39.0/	8.2	0.5	7.86	7.9	0.20	0.20	7.6	0.2

Date	7 Feb 24															
Location	Time	Depth (m)	Temp	(oC)	DO (1	mg/L)	DO	(%)	Turbidi	ty (NTU)	p	H	Sali	nity	SS(I	mg/L)
M2-	11.25	0.15	20.2	20.2	6.44	6.4	67.1	(0	8.7	07	7.55	7.6	0.20	0.20	10	0.2
MZa	11:55	0.15	20.2	20.2	6.45	0.4	68.9	08	8.6	8./	7.55	/.0	0.20	0.20	8.5	9.5

Date	9 Feb 24															
Location	Time	Depth (m)	Тетр) (0C)	DO (I	ng/L)	DO	(%)	Turbidi	ty (NTU)	р	Н	Sali	nity	SS(mg/L)
M2-	11.45	0.15	19.8	10.9	6.55	6.4	72.4	72.0	8.2	0.1	7.22	7 22	0.22	0.22	6.4	5.0
MZa	11:45	0.15	19.8	19.8	6.34	0.4	71.6	72.0	7.9	8.1	7.22	1.22	0.22	0.22	5.4	5.9

Date	15 Feb 24								
Location	Time	Depth (m)	Temp (oC)	DO (mg/L)	DO (%)	Turbidity (NTU)	pН	Salinity	SS(mg/L)
M2a	12:55	0.25	<u>21.9</u> 21.9 21.9	6.5 6.51 6.5	74.5 74.2 74.4	7.6 7.5 7.3 7.5	7.20 7.2 7.20 7.2	0.18 0.18	<u>6.4</u> 6.5 6.5

Date	17 Feb 24														
Location	Time	Depth (m)	Temp (oC)	DO (mg/L)	DO	(%)	Turbidi	ity (NTU)	р	H	Sali	nity	SS(I	mg/L)
M2-	14.15	0.20	21.8 21.9	6.66	(7	67.5	((7	7.3	7.2	7.36	7.4	0.18	0.10	6.3	()
MZa	14:15	0.30	21.8	6.8	0./	65.8	00.7	7.1	1.2	7.36	/.4	0.18	0.18	5.6	6.0

Date	19 Feb 24								
Location	Time	Depth (m)	Temp (oC)	DO (mg/L)	DO (%)	Turbidity (NTU)	pH	Salinity	SS(mg/L)
M2-	14.15	0.20	21.8 21.8	6.72	76.6 75.0	6.2	7.47	0.18	8.5
Ivi∠a	14:15	0.30	21.8	6.51 0.0	75.1 75.9	6.1 0.2	7.47	0.18	8.1 8.3



Date	21 Feb 24															
Location	Time	Depth (m)	ng/L)	DO	(%)	Turbidi	ity (NTU)	р	Н	Sali	nity	SS(1	mg/L)			
M2-	12.00	0.15	24.2	24.2	6.75	()	77.6	77 4	6.4	()	7.52	7.5	0.38	0.29	8.6	9.6
ivi2a	15:00	0.15	24.2	24.2	6.96	0.9	77.1	//.4	6.3	0.5	7.52	7.5	0.38	0.38	8.5	0.0

Date	23 Feb 24															
Location	Time	Depth (m)	Temp) (0C)	DO (I	ng/L)	DO	(%)	Turbidi	ty (NTU)	р	Н	Sali	nity	SS(1	mg/L)
M2-	11.50	0.15	22.1	22.1	7.7	7.6	88.9	007	5.2	5.2	7.75	7.0	0.30	0.20	8	77
Ivi∠a	11:50	0.15	22.1	22.1	7.55	/.0	87.6	88.5	5.1	3.2	7.75	/.8	0.30	0.30	7.4	1.1

Date	26 Feb 24															
Location	Time	Depth (m)	Temp ((oC)	DO (1	ng/L)	DO	(%)	Turbidi	ty (NTU)	p	H	Sali	nity	SS(1	mg/L)
M2a	12:20	0.20	18.5 18.5	18.5	6.41 6.33	6.4	70.8 70.2	70.5	4.1	4.0	7.48 7.48	7.5	0.26 0.26	0.26	7.1 7.6	7.4

Date	28 Feb 24															
Location	Time	Depth (m)	Temp) (0C)	DO (I	ng/L)	DO	(%)	Turbidi	ity (NTU)	р	Н	Sali	nity	SS(1	mg/L)
M2a	12.55	0.20	20.1	20.1	7.12	71	77.7	776	3.7	27	7.48	75	0.25	0.25	7.2	0 1
ıvı∠a	12:55	0.20	20.1	20.1	7.09	/.1	77.4	//.0	3.6	5.7	7.48	1.5	0.25	0.25	9.1	0.2



Water Quality Monitoring Results Location: M3

Location: I	VI 3															
Date	2 Feb 24															
Location	Time	Depth (m)	Тетр) (0C)	DO (r	ng/L)	DO	(%)	Turbidi	ty (NTU)	p	Н	Sali	nity	SS(1	mg/L)
M2	10.10	0.20	21.1	21.1	3.96	2.0	44.6	42.0	9.4	0.6	7.74	77	0.28	0.28	20.4	20.5
IVI3	10:10	0.20	21.1	21.1	3.82	5.9	43.2	43.9	9.8	9.0	7.74	1.1	0.28	0.28	20.5	20.3

Date	5 Feb 24								
Location	Time	Depth (m)	Temp (oC)	DO (mg/L)	DO (%)	Turbidity (NTU)	pН	Salinity	SS(mg/L)
M2	10.10	0.20	19.8 10.8	4.19	46.0	6.5	7.67	0.21	19.4 25.2
IVI 5	10:10	0.30	19.8	3.94 4.1	45.2 45.6	6.3 0.4	7.67	0.21	31 25.2

Date	7 Feb 24															
Location	Time	Depth (m)	Temp ((oC)	DO (I	ng/L)	DO	(%)	Turbidi	ty (NTU)	p	H	Sali	nity	SS(1	mg/L)
M2	10.10	0.20	19.8	10.9	3.98	2.0	43.6	42.2	9.1	8.0	7.55	7.6	0.21	0.21	16.1	15 1
M13	10:10	0.30	19.8	19.8	3.88	3.9	42.7	43.2	8.7	8.9	7.55	/.0	0.21	0.21	14	15.1

Date	9 Feb 24															
Location	Time	Depth (m)	Temp) (0C)	DO (I	ng/L)	DO	(%)	Turbidi	ty (NTU)	p	Н	Sali	nity	SS(1	mg/L)
M2	10.20	0.20	19	10	4.87	10	52.6	51.0	20.1	20.0	7.15	7.2	0.21	0.21	21	22.7
1113	10:20	0.30	19	19	4.77	4.8	51.2	51.9	19.8	20.0	7.15	1.2	0.21	0.21	26.4	23.7

Date	15 Feb 24															
Location	Time	Depth (m)	Temp	o (oC)	DO (I	ng/L)	DO	(%)	Turbidi	ity (NTU)	р	Н	Sali	nity	SS(1	mg/L)
MO	11.20	0.20	21	21	4.7	47	52.7	52.2	9.4	0.2	7.88	7.0	0.16	0.16	17.3	17.2
M13	11:50	0.30	21	21	4.62	4./	51.8	32.3	9.2	9.5	7.88	7.9	0.16	0.16	17.3	17.5

Date	17 Feb 24															
Location	Time	Depth (m)	Temp	o (oC)	DO (I	mg/L)	DO	(%)	Turbidi	ity (NTU)	р	Н	Sali	nity	SS(I	mg/L)
M2	12.55	0.25	21	21	5.33	5.2	59.9	59.6	7.1	7.2	7.16	7.2	0.16	0.16	13.4	12.9
IN13	12:55	0.25	21	21	5.21	5.5	57.2	38.0	7.3	1.2	7.15	1.2	0.16	0.16	12.2	12.8

Date	19 Feb 24								
Location	Time	Depth (m)	Temp (oC)	DO (mg/L)	DO (%)	Turbidity (NTU)	рН	Salinity	SS(mg/L)
M2	12.55	0.25	21.7 21.25	4.85	56.1 55.2	9.6 0.5	7.57	0.19	12.8
1113	12:55	0.25	21 21.55	4.81 4.8	54.5	9.4 9.5	7.57	0.19	10.4



Date	21 Feb 24															
Location	Time	Depth (m)	Temp) (0C)	DO (I	mg/L)	DO	(%)	Turbidi	ity (NTU)	р	Η	Sali	nity	SS(1	mg/L)
MO	11.20	0.25	23.8	22.0	3.08	2.1	35.2	25.0	4.1	4.2	7.12	7.1	0.28	0.29	20.2	10.2
IN15	11:50	0.23	23.8	23.8	3.12	5.1	36.4	55.8	4.2	4.2	7.12	/.1	0.28	0.28	16.2	16.2

Date	23 Feb 24															
Location	Time	Depth (m)	Temp ((oC)	DO (r	ng/L)	DO	(%)	Turbidi	ity (NTU)	р	Н	Sali	nity	SS(1	mg/L)
M2	0.45	0.25	22.8	22.8	3.2	2.2	36.9	27.2	19.5	10.0	7.37	7.4	0.17	0.17	11.2	12.1
M3	9:45	0.25	22.8	22.8	3.3	3.5	37.4	37.2	20.2	19.9	7.37	/.4	0.17	0.17	15	13.1

Date	26 Feb 24															
Location	Time	Depth (m)	Temp) (0C)	DO (I	mg/L)	DO	(%)	Turbidi	ty (NTU)	р	Н	Sali	nity	SS(1	mg/L)
M2	10.55	0.20	19.2	10.2	7.88	7.0	85.3	05 D	10.6	10.5	7.61	76	0.23	0.22	16.2	16.6
1015	10:55	0.20	19.2	19.2	7.82	7.9	85.0	83.2	10.4	10.5	7.61	/.0	0.23	0.25	16.9	10.0

Date	28 Feb 24															
Location	Time	Depth (m)	Temp) (0C)	DO (I	ng/L)	DO	(%)	Turbidi	ity (NTU)	p	H	Sali	nity	SS(1	mg/L)
M2	11.25	0.20	20.3	20.2	4.35	4.2	47.9	17.5	3.2	2.2	7.26	7.2	0.21	0.21	30	25.0
1113	11:55	0.30	20.3	20.5	4.28	4.3	47.0	47.3	3.2	3.2	7.26	1.5	0.21	0.21	21.8	23.9



Water Quality Monitoring Results

Location: N	M4															
Date	2 Feb 24															
Location	Time	Depth (m)	Temp	o (oC) DO (mg/L) DO (%) Turbidity (NTU) pH Salinity SS(mg/L												mg/L)
N44	0.55	0.15	23.5	22.5	6.3	(1	74.1	72 7	7.7	7 (7.32	7 2	0.38	0.20	6.6	()
11/14	9:55	0.15	23.5	23.5	5.92	0.1	73.2	/3./	7.5	/.0	7.32	7.3	0.38	0.38	7.2	0.9

Date	5 Feb 24								
Location	Time	Depth (m)	Temp (oC)	DO (mg/L)	DO (%)	Turbidity (NTU) pH	Salinity	SS(mg/L)
M4	9:50	0.15	$ \begin{array}{c c} 20.6 \\ 20.6 \end{array} $ 20.6	6.3 6.2 6.3	70.2 70.4 70.4	<u>6.9</u> 6.6 6.8	7.42 7.42 7.42 7.42	0.20 0.20	8.1 7.5 7.8

Date	7 Feb 24															
Location	Time	Depth (m)	Тетр	(0C)	DO (1	mg/L)	DO	(%)	Turbidi	ty (NTU)	р	Н	Sali	nity	SS(I	ng/L)
M4	9:50	0.15	20.7	20.7	6.1	6.1	68.5	69.4	6.6	6.5	7.42	7.4	0.44	0.44	5.8	7.6
			20.7		6.1		70.3		6.4		7.42		0.44		9.4	

Date	9 Feb 24															
Location	Time	Depth (m)	Temp) (0C)	DO (1	ng/L)	DO	(%)	Turbidi	ty (NTU)	p	H	Sali	nity	SS(I	mg/L)
M4	10.00	0.15	19.5	10.5	6.12	(1	66.9	(7.6	5.3	5.2	7.70	77	0.27	0.27	10.7	10.4
1014	10:00	0.15	19.5	19.5	6.13	0.1	68.2	07.0	5.3	5.5	7.70	1.1	0.27	0.27	10	10.4

Date	15 Feb 24															
Location	Time	Depth (m)	Тетр) (0C)	DO (I	ng/L)	DO	(%)	Turbidi	ty (NTU)	p	H	Sali	nity	SS(1	mg/L)
M4	11.15	0.15	23.8	22.0	6.48	62	76.9	757	7.5	75	7.70	77	0.54	0.54	12.6	12.2
1014	11:15	0.15	23.8	23.8	6.2	0.5	74.4	13.1	7.5	1.5	7.70	1.1	0.54	0.54	11.8	12.2

Date	17 Feb 24															
Location	Time	Depth (m)	Temp) (0C)	DO (1	ng/L)	DO	(%)	Turbidi	ty (NTU)	p	Н	Sali	nity	SS(1	mg/L)
M4	12.40	0.15	23.8	22.8	6.42	6.4	76.1	75.9	8.0	8.0	7.70	77	0.54	0.54	6	6.0
1014	12:40	0.15	23.8	23.8	6.37	0.4	75.4	/3.8	7.9	8.0	7.70	1.1	0.54	0.34	7.8	0.9

Date	19 Feb 24															
Location	Time	Depth (m)	Temp	(oC)	DO (I	ng/L)	DO	(%)	Turbidi	ty (NTU)	р	Н	Sali	nity	SS(I	mg/L)
N/4	12.40	0.15	23.4	22.4	6.86	()	79.6	70.0	3.6	27	7.42	7.4	0.51	0.51	6.7	5.25
11/14	12:40	0.15	23.4	23.4	6.71	0.8	78.4	/9.0	3.8	3./	7.42	/.4	0.51	0.51	4	5.55

Date	21 Feb 24								
Location	Time	Depth (m)	Temp (oC)	DO (mg/L)	DO (%)	Turbidity (NTU)	pН	Salinity	SS(mg/L)

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N/4	11.15	0.15	23.2	22.2	6.3	()	73.6	72.4	3.9	2.0	7.23	7.2	0.56	0.56	10.3	12.7
M4	11:15	0.15	23.2	23.2	6.28	6.3	71.1	/2.4	3.9	3.9	7.23	1.2	0.56	0.56	15	12.7

Date	23 Feb 24															
Location	Time	Depth (m)	Temp	o (oC)	DO (I	ng/L)	DO	(%)	Turbidi	ty (NTU)	р	Н	Sali	nity	SS(1	mg/L)
M4	0.20	0.15	22.5	22.5	6.4	6.5	74.1	76.1	3.3	~ ~	7.32	7.2	0.58	0.59	14.6	14.0
1014	9:30	0.15	22.5	22.3	6.5	0.5	78.1	/0.1	3.3	5.5	7.32	1.5	0.58	0.38	13.3	14.0

Date	26 Feb 24															
Location	Time	Depth (m)	Temp	(0C)	DO (I	mg/L)	DO	(%)	Turbidi	ty (NTU)	p	Н	Sali	nity	SS(1	mg/L)
M4	10.40	0.15	18.8	10.0	8.39	0.2	90.7	00.0	6.9	()	7.52	7.5	0.51	0.51	13.8	11.7
1014	10:40	0.15	18.8	18.8	8.22	8.3	89.2	90.0	6.7	0.8	7.52	1.5	0.51	0.51	9.6	11./

Date	28 Feb 24															
Location	Time	Depth (m)	Temp	(0C)	DO (1	ng/L)	DO	(%)	Turbidi	ty (NTU)	p	H	Sali	nity	SS(1	ng/L)
M4	11.20	0.15	20.8	20.8	6.55	65	73.1	72.0	4.4	12	6.95	7.0	0.49	0.40	10.2	11.0
1014	11:20	0.15	20.8	20.8	6.5	0.3	72.7	12.9	4.3	4.3	6.95	7.0	0.49	0.49	13.4	11.8



Water Quality Monitoring Results Location: U1b

Location.																1
Date	2 Feb 24						-						-		-	
Location	Time	Depth (m)	Temp	(oC)	DO (I	ng/L)	DO	(%)	Turbidit	y (NTU)	pl	H	Sali	nity	SS(m	g/L)
Ulb	10:30	0.15	20.8 20.8	20.8	4.3 4.24	4.3	48.4 47.8	48.1	9.3 9.0	9.2	7.56 7.56	7.6	0.72 0.72	0.7	16.8 15.1	16.0
Date	5 Feb 24															
Location	Time	Depth (m)	Temp	(0C)	DO (1	ng/L)	DO	(%)	Turbidit	y (NTU)	pl	H	Sali	nity	SS(m	g/L)
U1b	10:30	0.15	20.6 20.6	20.6	3.71 3.6	3.7	<u>41.2</u> 39.2	40.2	14.4 14.1	14.2	10.98 10.98	11.0	0.28	0.3	19.6 22.2	20.9
Date	7 Feb 24															
Location	Time	Depth (m)	Temp	(0C)	DO (I	ng/L)	DO	(%)	Turbidit	y (NTU)	pl	H	Sali	nity	SS(m	g/L)
U1b	10:30	0.15	20.5 20.5	20.5	3.19 3.12	3.2	35.5 35.2	35.4	14.5 13.9	14.2	10.88 10.88	10.9	0.29 0.29	0.3	25.6 16.7	21.2
Data	0 Eab 24]
Date	71024	Donth														
Location	Time	(m)	Temp	(oC)	DO (I	ng/L)	DO	(%)	Turbidit	y (NTU)	pl	H	Sali	nity	SS(m	g/L)
U1b	10:40	0.15	19 19	19	6.42 6.38	6.4	69.5 67.8	68.7	45.3 44.9	45.1	11.01 11.01	11.0	0.61 0.61	0.6	79.2 80.4	79.8
Date	15 Feb 24]
Date	1510024	Denth														
Location	Time	(m)	Тетр	(oC)	DO (1	ng/L)	DO	(%)	Turbidit	y (NTU)	pl	H	Sali	nity	SS(m	g/L)
U1b	11:50	0.25	21.7 21.7	21.7	4.74 4.51	4.6	54.0 52.1	53.1	17.2 16.8	17.0	10.97 10.97	11.0	0.48	0.5	38.9 34.6	36.8
Date	17 Feb 24															
Location	Time	Depth (m)	Temp	(0C)	DO (I	ng/L)	DO	(%)	Turbidit	y (NTU)	pl	H	Sali	nity	SS(m	g/L)
U1b	13:15	0.15	21.56 21.6	21.58	4.76 4.89	4.8	54.2 56.8	55.5	17.0 17.6	17.3	10.97 10.97	11.0	0.48 0.48	0.5	32.8 26.7	29.8
Date	19 Feb 24															
Location	Time	Depth (m)	Temp	(0C)	DO (1	ng/L)	DO	(%)	Turbidit	y (NTU)	pl	H	Sali	nity	SS(m	g/L)

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U1b	13:15	0.15	23.1 23.1	23.1	5.94 5.9	5.9	68.9 68.5	68.7	14.3 14.7	14.5	10.95 10.95	11.0	0.20 0.20	0.2	37.2 45.2	41.2
Data 21 Esh 24																
Date	21 Feb 24															
Location	Time	Depth (m)	Temp (oC)		DO (mg/L)		DO (%)		Turbidity (NTU)		рН		Salinity		SS(mg/L)	
U1b	11:50	0.15	22.8 22.8	22.8	2.35 2.41	2.4	25.7 26.4	26.1	92.1 91.5	91.8	5.21 5.21	5.2	0.67 0.67	0.7	111 117	114.0
															-	
Date	23 Feb 24															
Location	Time	Depth (m)	Temp (oC)		DO (mg/L)		DO (%)		Turbidity (NTU)		рН		Salinity		SS(mg/L)	
		, , , , , , , , , , , , , , , , , , ,	21.8		2.15		24.8		97.1		4 09		0.52		123	
U1b	10:00	0.15	21.8	21.8	2.22	2.2	26.2	25.5	98.2	97.7	4.09	4.1	0.52	0.5	118	120.5
B																
Date	26 Feb 24															
Location	Time	Depth (m)	Temp (oC)		DO (mg/L)		DO (%)		Turbidity (NTU)		рН		Salinity		SS(mg/L)	
			19.6		7.92		86.8		18.8		7.95		0.73		24	
Ulb	11:15	0.15	19.6	19.6	7.85	7.9	86.2	86.5	18.5	18.6	7.95	8.0	0.73	0.7	23.4	23.7
Date	28 Feb 24															
Location	Time	Depth (m)	Temp (oC)		DO (mg/L)		DO (%)		Turbidity (NTU)		рН		Salinity		SS(mg/L)	
U1b	12:25	0.20	21.2 21.2	21.2	5.71 5.66	5.7	63.6 62.8	63.2	24.4 24.1	24.3	7.55 7.55	7.6	0.67	0.7	29.1 26.4	27.8


Water Quality Monitoring Results Location: U2a

Date	2 Feb 24								•				•			
Location	Time	Depth (m)	Temp) (0C)	DO (I	mg/L)	DO	(%)	Turbidit	y (NTU)	р	Н	Sali	nity	SS(n	ng/L)
U2a	10:45	0.25	21.6 21.6	21.6	7.43 7.3	7.4	84.5 81.6	83.1	5.3 5.1	5.2	7.24 7.24	7.2	0.08	0.1	4.4 4.9	4.7
Date	5 Feb 24															
Location	Time	Depth (m)	Temp) (0C)	DO (I	mg/L)	DO	(%)	Turbidit	y (NTU)	р	Н	Sali	nity	SS(n	ng/L)
U2a	10:45	0.25	20.5 20.5	20.5	7.36 7.21	7.3	81.7 80.5	81.1	3.1 3.0	3.0	10.99 10.99	11.0	0.08	0.1	3.5 3.2	3.4
Date	7 Feb 24															
Location	Time	Depth (m)	Temp	o (oC)	DO (I	mg/L)	DO	(%)	Turbidit	y (NTU)	р	Н	Sali	nity	SS(n	ng/L)
U2a	10:45	0.25	20.5 20.5	20.5	7.27 7.23	7.3	80.8 80.1	80.5	2.4 2.3	2.3	10.99 10.99	11.0	0.08	0.1	2.4 2.7	2.6
Date	9 Feb 24															
Location	Time	Depth (m)	Temp) (oC)	DO (1	mg/L)	DO	(%)	Turbidit	y (NTU)	р	Н	Sali	nity	SS(n	ng/L)
Location U2a	Time 10:55	Depth (m) 0.25	Temp 19.1 19.1	o (oC) 19.1	DO (1 6.94 6.75	mg/L) 6.8	DO 74.9 73.1	(%) 74.0	Turbidit 6.1 6.0	ey (NTU) 6.1	p 10.87 10.87	H 10.9	Sali 0.08 0.08	nity 0.1	SS(n 3.6 5.1	ng/L) 4.4
Location U2a Date	Time 10:55 15 Feb 24	Depth (m) 0.25	Temp 19.1 19.1	• (•C) 19.1	DO (1 6.94 6.75	mg/L) 6.8	DO 74.9 73.1	(%) 74.0	Turbidit 6.1 6.0	y (NTU) 6.1	p 10.87 10.87	H 10.9	Sali 0.08 0.08	nity 0.1	SS(n 3.6 5.1	ng/L) 4.4
Location U2a Date Location	Time 10:55 15 Feb 24 Time	Depth (m) 0.25 Depth (m)	Temp 19.1 19.1 Temp	o (oC) 19.1	DO (1 6.94 6.75 DO (1	ng/L) 6.8 ng/L)	DO 74.9 73.1 DO	(%) 74.0 (%)	Turbidit 6.1 6.0 Turbidit	y (NTU) 6.1 y (NTU)	p 10.87 10.87 p	H 10.9 H	Sali 0.08 0.08 Sali	nity 0.1 nity	SS(n 3.6 5.1 SS(n	ng/L) 4.4 ng/L)
Location U2a Date Location U2a	Time 10:55 15 Feb 24 Time 12:20	Depth (m) 0.25 Depth (m) 0.30	Temp 19.1 19.1 Temp 21.7 21.7	• (oC) • 19.1 • (oC) • 21.7	DO (1 6.94 6.75 DO (1 8.2 8.1	ng/L) 6.8 ng/L) 8.2	DO 74.9 73.1 DO 93.2 92.8	(%) 74.0 (%) 93.0	Turbidit 6.1 6.0 Turbidit 3.0 3.0	y (NTU) 6.1 y (NTU) 3.0	p 10.87 10.87 p 10.97 10.97	H 10.9 H 11.0	Sali 0.08 0.08 Sali 0.08 0.08 0.08	nity 0.1 nity 0.1	SS(n 3.6 5.1 SS(n 2.9 4	ng/L) 4.4 ng/L) 3.5
Location U2a Date Location U2a Date	Time 10:55 15 Feb 24 Time 12:20 17 Feb 24	Depth (m) 0.25 Depth (m) 0.30	Temp 19.1 19.1 Temp 21.7 21.7	• (oC) • 19.1 • (oC) • 21.7	DO (1 6.94 6.75 DO (1 8.2 8.1	ng/L) 6.8 ng/L) 8.2	DO 74.9 73.1 DO 93.2 92.8	(%) 74.0 (%) 93.0	Turbidit 6.1 6.0 Turbidit 3.0 3.0	y (NTU) 6.1 y (NTU) 3.0	p 10.87 10.87 p 10.97 10.97	H 10.9 H 11.0	Sali 0.08 0.08 Sali 0.08 0.08 0.08	nity 0.1 nity 0.1	SS(n 3.6 5.1 SS(n 2.9 4	ng/L) 4.4 ng/L) 3.5
Location U2a Date Location U2a Date Location	Time 10:55 15 Feb 24 Time 12:20 17 Feb 24 Time	Depth (m) 0.25 Depth (m) 0.30 Depth (m)	Temp 19.1 19.1 Temp 21.7 21.7 Temp	• (oC) • 19.1 • (oC) • 21.7 • (oC)	DO (1 6.94 6.75 DO (1 8.2 8.1 DO (1	ng/L) 6.8 ng/L) 8.2 ng/L)	DO 74.9 73.1 DO 93.2 92.8 DO	(%) 74.0 (%) 93.0 (%)	Turbidit 6.1 6.0 Turbidit 3.0 3.0 Turbidit	y (NTU) 6.1 y (NTU) 3.0 y (NTU)	p 10.87 10.87 p 10.97 10.97 p	H 10.9 H 11.0	Sali 0.08 0.08 Sali 0.08 Sali 0.08 Sali	nity 0.1 nity 0.1 nity	SS(n 3.6 5.1 SS(n 2.9 4 SS(n	ng/L) 4.4 ng/L) 3.5
Location U2a Date Location U2a Date Location U2a	Time 10:55 15 Feb 24 Time 12:20 17 Feb 24 Time 13:40	Depth (m) 0.25 Depth (m) 0.30 Depth (m) 0.30	Temp 19.1 19.1 Temp 21.7 21.7 Temp 21.6 21.6	• (oC) • 19.1 • (oC) • 21.7 • (oC) • 21.6	DO (1 6.94 6.75 DO (1 8.2 8.1 DO (1 8.34 8.21	mg/L) 6.8 mg/L) 8.2 mg/L) 8.3	DO 74.9 73.1 DO 93.2 92.8 DO 94.7 92.3	(%) 74.0 (%) 93.0 (%) 93.5	Turbidit 6.1 6.0 Turbidit 3.0 3.0 3.0 4.3	y (NTU) 6.1 y (NTU) 3.0 y (NTU) 4.3	p 10.87 10.87 p 10.97 10.97 p 10.97 10.97	H 10.9 H 11.0 H 11.0	Sali 0.08 0.08 Sali 0.08 0.08 0.08 Sali 0.08 0.08 0.08	nity 0.1 nity 0.1 nity 0.1	SS(n 3.6 5.1 SS(n 2.9 4 SS(n 3.5 3.3	ng/L) 4.4 ng/L) 3.5 ng/L) . 3.4
Location U2a Date Location U2a Date Location U2a Date	Time 10:55 15 Feb 24 Time 12:20 17 Feb 24 Time 13:40 19 Feb 24	Depth (m) 0.25 Depth (m) 0.30 Depth (m) 0.30	Temp 19.1 19.1 Temp 21.7 21.7 Temp 21.6 21.6	• (oC) • 19.1 • (oC) • 21.7 • (oC) • 21.6	DO (1 6.94 6.75 DO (1 8.2 8.1 DO (1 8.34 8.21	mg/L) 6.8 mg/L) 8.2 mg/L) 8.3	DO 74.9 73.1 DO 93.2 92.8 DO 94.7 92.3	(%) 74.0 (%) 93.0 (%) 93.5	Turbidit 6.1 6.0 Turbidit 3.0 3.0 3.0 4.3 4.3	y (NTU) 6.1 y (NTU) 3.0 y (NTU) 4.3	p 10.87 10.87 p 10.97 10.97 10.97 10.97	H 10.9 H 11.0 H 11.0	Sali 0.08 0.08 0.08 Sali 0.08 0.08 0.08 0.08 0.08	nity 0.1 nity 0.1 nity 0.1	SS(n 3.6 5.1 SS(n 2.9 4 SS(n 3.5 3.3	ng/L) 4.4 ng/L) 3.5 ng/L) 3.4

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1 1	l				1		1						1			
		(m)		1		T		T		1		1		r		1
112-	12.40	0.25	22.6	22.6	7.6	76	87.4	16.0	2.5	2.5	10.96	11.0	0.09	0.1	6.6	6.0
02a	13:40	0.25	22.6	22.0	7.52	/.0	6.2	40.8	2.5	2.5	10.96	11.0	0.09	0.1	7.1	0.9
			-				-		-			1				
Date	21 Feb 24															
Location	Time	Depth (m)	Temp	o (oC)	DO (1	mg/L)	DO	(%)	Turbidi	ty (NTU)	р	Н	Sali	nity	SS(n	ng/L)
110	12.20	0.05	23.5	22.5	7.58		85.9	05.1	2.1	0.1	7.51		0.15	0.0	3.6	1.0
U2a	12:20	0.25	23.5	23.5	7.42	7.5	84.2	85.1	2.2	2.1	7.51	7.5	0.15	0.2	6.2	4.9
					,=		02				,		0.110	l	0.2	
Date	23 Feb 24															
Location	Time	Depth (m)	Temp	o (oC)	DO (1	mg/L)	DO	(%)	Turbidi	ty (NTU)	р	H	Sali	nity	SS(n	ng/L)
	10.00	0.05	21.5	01.5	7.6		86.1	0.5.0	2.6		7.58		0.11	0.1	4.4	
U2a	10:30	0.25	21.5	21.5	7.54	7.6	85.4	85.8	2.5	2.5	7.58	7.6	0.11	0.1	3.8	4.1
					,						,					
Date	26 Feb 24															
Location	Time	Depth (m)	Temp	o (oC)	DO (1	mg/L)	DO	(%)	Turbidi	ty (NTU)	р	Н	Sali	nity	SS(n	ng/L)
110	11.50	0.05	19.7	10.7	6.41	6.4	70.8	71.0	4.1	4.1	7.48		0.26	0.0	2.6	
U2a	11:50	0.25	19.7	19.7	6.45	6.4	71.2	/1.0	4.1	4.1	7.48	7.5	0.26	0.3	6.2	4.4
			1911		01.10		,				1110		0.20		0.2	
Date	28 Feb 24															
Location	Time	Depth (m)	Temp	o (oC)	DO (1	mg/L)	DO	(%)	Turbidi	ty (NTU)	р	Н	Sali	nity	SS(n	ng/L)
			20.0		7.0		07.1		1.0		(()		0.10		2	



Water Quality Monitoring Results

Location: (J 3															
Date	2 Feb 24															
Location	Time	Depth (m)	Temp) (0C)	DO (1	ng/L)	DO	(%)	Turbidi	ty (NTU)	р	Н	Sali	nity	SS(1	mg/L)
112	0.40	0.20	20.7	20.7	3.14	2.1	35.1	24.0	4.2	4 1	7.42	7 4	0.28	0.29	13.1	10.7
03	9:40	0.20	20.7	20.7	3.02	3.1	34.6	54.9	4.0	4.1	7.42	7.4	0.28	0.28	12.3	12.7

Date	5 Feb 24															
Location	Time	Depth (m)	Temp) (0C)	DO (I	ng/L)	DO	(%)	Turbidi	ity (NTU)	р	Н	Sali	nity	SS(1	mg/L)
112	0.25	0.25	20	20	3.17	2.1	34.9	24.1	3.8	27	7.52	75	0.20	0.20	8.6	0.1
03	9:55	0.25	20	20	3.08	3.1	33.2	34.1	3.6	5.7	7.52	1.5	0.20	0.20	9.5	9.1

Date	7 Feb 24														
Location	Time	Depth (m)	Temp (oC)	DO (mg/L)	DO	(%)	Turbidi	ity (NTU)	р	H	Sali	inity	SS(1	mg/L)
U3	9:35	0.25	<u>19.9</u> 19.9 19.	2.76	2.7	30.3 29.7	30.0	4.3 4.2	4.2	7.42	7.4	0.20	0.20	13.5 6.4	10.0

Date	9 Feb 24															
Location	Time	Depth (m)	Temp	(0C)	DO (I	ng/L)	DO	(%)	Turbidi	ty (NTU)	p	Н	Sali	nity	SS(1	mg/L)
112	0.45	0.25	19	10	3.54	2.5	38.2	28.0	4.8	15	7.42	7.4	0.19	0.10	6.8	7.0
03	9:45	0.25	19	19	3.5	5.5	37.8	38.0	4.1	4.3	7.42	/.4	0.19	0.19	7.2	7.0

Date	15 Feb 24															
Location	Time	Depth (m)	Тетр	0 (0C)	DO (I	mg/L)	DO	(%)	Turbidi	ity (NTU)	р	Н	Sali	nity	SS(1	mg/L)
112	11.00	0.20	21.1	21.1	4.82	4.0	54.3	52.4	3.8	2.6	7.42	7 4	0.19	0.10	22.1	177
03	11:00	0.20	21.1	21.1	4.73	4.8	52.5	55.4	3.4	5.0	7.42	/.4	0.19	0.19	13.2	1/./

Date	17 Feb 24															
Location	Time	Depth (m)	Temp) (0C)	DO (1	ng/L)	DO	(%)	Turbidi	ty (NTU)	р	Н	Sali	nity	SS(1	ng/L)
U3	12:30	0.20	21 21	21	4.35 4.27	4.3	48.8 45.8	47.3	3.6 3.4	3.5	7.42 7.42	7.4	0.19 0.19	0.19	7.1 5.5	6.3

Date	19 Feb 24															
Location	Time	Depth (m)	Temp (o	DC)	DO (1	ng/L)	DO	(%)	Turbidi	ty (NTU)	p	H	Sali	nity	SS(I	mg/L)
112	12.20	0.25	21.9	21.0	3.78	27	42.2	41.7	13.3	12.0	7.42	7 4	0.20	0.20	37.2	20.2
03	12:30	0.25	21.9	21.9	3.66	3./	41.1	41./	12.5	12.9	7.42	/.4	0.20	0.20	21.4	29.3

Date	21 Feb 24								
Location	Time	Depth (m)	Temp (oC)	DO (mg/L)	DO (%)	Turbidity (NTU)	pН	Salinity	SS(mg/L)

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112	11.00	0.20	22.4	22.4	3.46	25	39.7	40.25	3.9	2.07	7.42	7 40	0.23	0.22	11.1	10.4
03	11:00	0.20	22.4	22.4	3.52	3.5	40.8	40.25	4.0	3.97	7.42	7.42	0.23	0.23	13.6	12.4

Date	23 Feb 24															
Location	Time	Depth (m)	Temp ((oC)	DO (r	ng/L)	DO	(%)	Turbidi	ity (NTU)	p	Н	Sali	nity	SS(mg/L)
112	0.15	0.20	21.4	21.4	3.32	2.2	38.1	27.11	3.8	2 745	7.36	7 26	0.19	0.10	8.6	16.0
03	9:15	0.20	21.4	21.4	3.22	5.5	36.1	37.11	3.7	5.745	7.36	/.30	0.19	0.19	23.8	10.2

Date	26 Feb 24														
Location	Time	Depth (m)	Temp (oC)	DO	(mg/L)	DO	(%)	Turbidi	ity (NTU)	р	Н	Sali	nity	SS(1	mg/L)
112	10.25	0.25	19.1	7.04	7.0	76.9	76.2	3.9	2 965	7.61	7.61	0.18	0.19	11.1	11.0
03	10:25	0.25	19.1	6.92	/.0	75.7	/0.3	3.9	3.803	7.61	/.01	0.18	0.18	10.8	11.0

Date	28 Feb 24															
Location	Time	Depth (m)	Temp) (0C)	DO (1	ng/L)	DO	(%)	Turbidi	ty (NTU)	р	Н	Sali	nity	SS(1	mg/L)
112	11.05	0.20	20.5	20.5	2.96	2.0	32.7	22.45	2.4	2 41	7.16	716	0.18	0.19	6.1	6.1
03	11:05	0.20	20.5	20.5	2.92	2.9	32.2	32.43	2.4	2.41	7.16	/.10	0.18	0.18	6	0.1



Water Quality Monitoring Results

Location: 0	U4a															
Date	2 Feb 24															
Location	Time	Depth (m)	Тетр) (0C)	DO (mg/L)		DO	(%)	Turbidi	ty (NTU)	p	Н	Sali	nity	SS(n	ng/L)
II/a	0.25	0.20	21.5	21.5	3.83	27	42.8	41.5	8.9	0 0	7.33	7 2	0.29	0.20	21.1	20.2
04a	9:25	0.30	21.5	21.3	3.64	3./	40.2	41.3	8.7	0.8	7.33	1.5	0.29	0.29	19.4	20.3

Date	5 Feb 24															
Location	Time	Depth (m)	Temp) (0C)	DO (1	ng/L)	DO	(%)	Turbidi	ty (NTU)	p	H	Sali	nity	SS(1	ng/L)
114-	0.20	0.20	19.8	10.9	2.87	20	31.5	21.2	6.3	()	7.04	7.0	0.18	0.10	13.4	12.0
U4a	9:20	0.30	19.8	19.8	2.69	2.8	30.8	31.2	6.2	0.2	7.04	7.0	0.18	0.18	14.4	13.9

Date	7 Feb 24															
Location	Time	Depth (m)	Temp (o	C)	DO (1	ng/L)	DO	(%)	Turbidi	ty (NTU)	p	H	Sali	nity	SS(1	mg/L)
114-	0.20	0.20	19.8	10.9	3.7	26	40.6	20.7	6.4	()	7.06	7 1	0.17	0.17	10.1	10.2
04a	9:20	0.30	19.8	19.8	3.58	3.0	38.8	39.7	6.3	0.3	7.06	/.1	0.17	0.17	26.4	18.5

Date	9 Feb 24															
Location	Time	Depth (m)	Temp	0 (0C)	DO (I	mg/L)	DO	(%)	Turbidi	ty (NTU)	р	Н	Sali	nity	SS(1	mg/L)
II.	0.20	0.20	19.5	10.5	4.35	4.2	47.4	16.6	5.4	5 1	7.10	7.1	0.21	0.21	13	12.7
04a	9:30	0.30	19.5	19.5	4.21	4.3	45.8	40.0	5.4	5.4	7.10	/.1	0.21	0.21	12.3	12.7

Date	15 Feb 24															
Location	Time	Depth (m)	Temp) (0C)	DO (I	mg/L)	DO	(%)	Turbidi	ty (NTU)	р	H	Sali	nity	SS(I	mg/L)
114-	10.45	0.20	20.1	20.1	3.57	2.5	39.3	21.2	8.8	07	7.80	7.0	0.17	0.17	13.4	14.5
U4a	10:45	0.30	20.1	20.1	3.46	5.5	3.1	21.2	8.6	8./	7.80	7.8	0.17	0.17	15.5	14.5

Date	17 Feb 24															
Location	Time	Depth (m)	Temp) (0C)	DO (I	mg/L)	DO	(%)	Turbidi	ty (NTU)	р	Н	Sali	nity	SS(I	mg/L)
II.	12.20	0.25	20.1	20.1	3.29	2.2	36.3	27.1	12.3	10.2	7.70	77	0.16	0.16	17.4	17.2
04a	12:20	0.25	20.1	20.1	3.35	5.5	37.8	57.1	12.4	12.3	7.70	/./	0.16	0.10	16.9	1/.2

Date	19 Feb 24								
Location	Time	Depth (m)	Temp (oC)	DO (mg/L)	DO (%)	Turbidity (NTU)	рН	Salinity	SS(mg/L)
114-	12.20	0.25	21.4 21.4	4.78	48.2	14.0	7.70	0.35	25.2 27.2
04a	12:20	0.25	21.4	3.95 4.4	42.2 43.2	14.3	7.70	0.35	29.2



Date	21 Feb 24															
Location	Time	Depth (m)	Temp	(oC)	DO (r	ng/L)	DO	(%)	Turbidi	ty (NTU)	р	Н	Sali	nity	SS(1	ng/L)
U4a	10:45	0.25	23.5	23.5	2.89	2.8	33.5 32.8	33.2	7.9	7.9	7.22	7.2	0.28	0.28	42.1	35.7

Date	23 Feb 24															
Location	Time	Depth (m)	Temp) (oC)	DO (r	ng/L)	DO	(%)	Turbidi	ty (NTU)	р	Н	Sali	nity	SS(1	mg/L)
114-	0.00	0.25	21.2	21.2	3.02	2.0	35.0	24.6	6.5	6.4	7.36	7.4	0.19	0.10	31.9	20.2
04a	9:00	0.25	21.2	21.2	2.89	5.0	34.1	34.0	6.4	0.4	7.36	/.4	0.19	0.19	46.7	39.3

Date	26 Feb 24															
Location	Time	Depth (m)	Temp	(oC)	DO (I	mg/L)	DO	(%)	Turbidi	ty (NTU)	p	Н	Sali	nity	SS(1	mg/L)
U4a	10.05	0.30	18.6	18.6	7.95	79	86.7	86.6	4.8	48	7.34	73	0.18	0.18	8.4	8.8
0 14	10.05	0.50	18.6	10.0	7.91	1.5	86.5	00.0	4.8	1.0	7.34	7.5	0.18	0.10	9.2	0.0

Date	28 Feb 24															
Location	Time	Depth (m)	Temp	p (oC)	DO (I	ng/L)	DO	(%)	Turbidi	ity (NTU)	р	H	Sali	nity	SS(1	mg/L)
II/a	10.45	0.20	20	20	2.1	2.1	22.8	22.7	2.2	2.2	7.02	7.0	0.22	0.22	17.4	17.0
04a	10:45	0.30	20	20	2.08	2.1	22.6	22.7	2.3	2.3	7.02	/.0	0.22	0.22	16.6	17.0



Water Quality Monitoring Results

Location: EIS

Date	2 Feb 24															
Location	Time	Depth (m)	Тетр	(oC)	DO (r	ng/L)	DO	(%)	Turbidi	ty (NTU)	p	Н	Sali	nity	SS(r	ng/L)
EIC 1-	11.00	0.25	20.8	20.9	7.53	75	84.2	94.0	8.0	7.0	7.07	7.1	0.04	0.0	15.7	15.2
E15-1a	11:00	0.25	20.8	20.8	7.48	7.5	83.7	64.0	7.8	7.9	7.07	/.1	0.04	0.0	14.8	13.3

Date	5 Feb 24															
Location	Time	Depth (m)	Temp) (0C)	DO (1	ng/L)	DO	(%)	Turbidi	ty (NTU)	р	Н	Sali	nity	SS(1	mg/L)
EIS 1a	11.00	0.20	21.1	21.1	8.12	01	91.3	01.0	3.3	2.2	7.12	7 1	0.04	0.0	23.9	25.7
E15-1a	11:00	0.20	21.1	21.1	8.04	0.1	90.6	91.0	3.2	3.2	7.12	/.1	0.04	0.0	27.5	23.1

Date	7 Feb 24															
Location	Time	Depth (m)	Temp	(0C)	DO (I	ng/L)	DO	(%)	Turbidi	ty (NTU)	p	H	Sali	nity	SS(1	ng/L)
EIC 1-	11.00	0.20	21.3	21.2	8.16	0.1	92.0	01.6	12.6	12.2	7.80	7.0	0.04	0.0	14.5	12.2
E15-1a	11:00	0.20	21.3	21.3	8.01	8.1	91.2	91.0	11.8	12.2	7.80	7.8	0.04	0.0	12	13.3

Date	9 Feb 24															
Location	Time	Depth (m)	Тетр	(0C)	DO (r	ng/L)	DO	(%)	Turbidi	ty (NTU)	p	H	Sali	nity	SS(1	mg/L)
EIC 1-	11.10	0.20	18.9	10.0	6.96	()	74.8	74.4	4.6	1.6	7.24	7 0	0.05	0.1	6.9	65
E15-1a	11:10	0.20	18.9	10.9	6.9	0.9	74.0	/4.4	4.6	4.0	7.24	1.2	0.05	0.1	6.1	0.3

Date	15 Jan 24								
Location	Time	Depth (m)	Temp (oC)	DO (mg/L)	DO (%)	Turbidity (NTU)	pН	Salinity	SS(mg/L)
EIS-1a	12:05	0.50	$ \begin{array}{c} 20.3 \\ 20.3 \end{array} $ 20.3	8.3 8.2 8.3	<u>91.8</u> 91.2 91.5	<u>4.1</u> 4.0 4.1	7.89 7.89 7.9	0.05 0.1	<u>6.2</u> <u>4.6</u> 5.4

Date	17 Feb 24															
Location	Time	Depth (m)	Temp) (0C)	DO (I	ng/L)	DO	(%)	Turbidi	ity (NTU)	р	Н	Sali	nity	SS(1	mg/L)
EIC 1-	12.20	0.25	20	20	8.19	0 2	90.2	01.5	4.1	4.0	7.77	7.0	0.04	0.0	3.9	4 1
E15-1a	15:50	0.25	20	20	8.32	0.3	92.8	91.5	3.9	4.0	7.77	/.8	0.04	0.0	4.2	4.1

Date	19 Feb 24															
Location	Time	Depth (m)	Temp) (0C)	DO (r	ng/L)	DO	(%)	Turbidi	ty (NTU)	p	H	Sali	nity	SS(I	mg/L)
EIC 1-	12.20	0.25	21.2	21.2	8.18	0.7	90.0	01.2	3.8	20	7.56	7.6	0.04	0.0	4.1	4.2
E15-1a	13:30	0.25	21.2	21.2	8.22	8.2	92.3	91.2	3.8	3.8	7.56	/.0	0.04	0.0	4.2	4.2



Date	21 Feb 24															
Location	Time	Depth (m)	Temp) (0C)	DO (I	ng/L)	DO	(%)	Turbidi	ity (NTU)	p	H	Sali	nity	SS(1	ng/L)
EIS-1a	12:05	0.25	23.8 23.8	23.8	6.08 6.01	6.0	69.9 68.7	69.3	3.7 3.8	3.8	7.87 7.87	7.9	0.04	0.0	8.6 8.6	8.6

Date	23 Feb 24								
Location	Time	Depth (m)	Temp (oC)	DO (mg/L)	DO (%)	Turbidity (NTU)	pН	Salinity	SS(mg/L)
EIC 1a	10.15	0.25	21.8 21.70	6.38	73.3 74.1	3.3 2.4	7.68	0.05	6.5
E15-1a	10:15	0.25	21.78	6.55 0.5	74.9 74.1	3.4 3.4	7.68	0.05	7 0.8

Date	26 Feb 24															
Location	Time	Depth (m)	Тетр) (0C)	DO (I	ng/L)	DO	(%)	Turbidi	ity (NTU)	p	H	Sali	nity	SS(1	mg/L)
EIC 1a	11.25	0.20	18.7	107	8.18	0 1	89.1	80.7	3.2	2.2	7.55	76	0.07	0.1	8.5	7 9
E15-1a	11:55	0.30	18.7	10.7	8.22	0.2	90.3	89.7	3.2	3.2	7.55	/.0	0.07	0.1	7	/.0

Date	28 Feb 24															
Location	Time	Depth (m)	Temp	(0C)	DO (r	ng/L)	DO	(%)	Turbidi	ty (NTU)	p	Н	Sali	nity	SS(1	mg/L)
EIC 1a	11.55	0.20	19.9	10.0	7.54	75	82.8	876	1.6	1.6	7.04	7.0	0.05	0.1	9.7	70
E15-1a	11:55	0.30	19.9	19.9	7.51	1.5	82.3	02.0	1.6	1.0	7.04	7.0	0.05	0.1	5.9	7.8



Water Quality Monitoring Results Location: M5a

Date	2 Feb 24															
Location	Time	Depth (m)	Temp	Temp (oC)		ng/L)	DO	(%)	Turbidi	ity (NTU)	p	Н	Sali	nity	SS(1	mg/L)
M5a	12.10	0.15	20.8	20.8	5.4	5 /	60.7	50.7	69.8	67.6	7.38	7.4	0.15	0.15	212	205.5
Ivisa	12:10	0.13	20.8	20.8	5.31	5.4	58.7	39.7	65.4	07.0	7.38	/.4	0.15	0.15	199	203.5

Date	5 Feb 24														
Location	Time	Depth (m)	Temp (oC)	DO	(mg/L)	DO	(%)	Turbidi	ity (NTU)	р	Η	Sali	nity	SS(mg/L)
M5-	12.10	0.15	19.8	5.8	5.0	63.9	(2.4	119.8	110.2	7.48	7.5	0.15	0.15	258	272.5
MJSa	12:10	0.15	19.8	5.72	3.8	62.9	03.4	116.7	118.3	7.48	/.5	0.15	0.15	287	272.5

Date	7 Feb 24															
Location	Time	Depth (m)	Temp) (0C)	DO (r	ng/L)	DO	(%)	Turbidi	ty (NTU)	р	Н	Sali	nity	SS(I	mg/L)
M5-	12.10	0.15	19.8	10.9	5.29	5.2	58.1	577	76.1	75.2	7.15	7.2	0.15	0.15	134	150.5
MJa	12:10	0.15	19.8	19.8	5.03	3.2	57.3	57.7	74.4	/3.2	7.15	1.2	0.15	0.15	185	139.3

Date	9 Feb 24															
Location	Time	Depth (m)	Тетр	0 (0C)	DO (I	ng/L)	DO	(%)	Turbidi	ty (NTU)	р	Н	Sali	nity	SS(1	mg/L)
M5a	12.20	0.15	18.5	10 5	6.07	6.0	64.9	64.1	80.9	70.0	7.22	7 0	0.16	0.16	264	215.0
MJa	12:20	0.15	18.5	18.3	5.88	0.0	63.2	04.1	78.9	/9.9	7.22	1.2	0.16	0.10	166	213.0

Date	15 Feb 24															
Location	Time	Depth (m)	Temp	(0C)	DO (1	ng/L)	DO	(%)	Turbidi	ty (NTU)	p	Н	Sali	nity	SS(1	mg/L)
M5a	12:25	0.15	21.1 21.1	21.1	6.37 6.24	6.3	71.7 69.8	70.8	44.9 43.8	44.4	7.33 7.35	7.3	0.15	0.15	198 142	170.0

Date	17 Feb 24								
Location	Time	Depth (m)	Temp (oC)	DO (mg/L)	DO (%)	Turbidity (NTU)	pH	Salinity	SS(mg/L)
M5-	14.50	0.15	20.9	5.5	61.7	64.5	7.46	0.15	88.9 75.0
Mba	14:50	0.15	20.9	5.6 5.0	62.8 62.3	65.6 65.1	7.46	0.15	62.9 75.9

Date	19 Feb 24															
Location	Time	Depth (m)	Temp (o	C)	DO (r	ng/L)	DO	(%)	Turbidi	ty (NTU)	p	H	Sali	nity	SS(1	mg/L)
M5-	14.50	0.15	21.8	1 1 0	5.78	57	65.2	647	17.9	10.2	7.97	8.0	0.15	0.15	80.4	(17
Ivisa	14:50	0.15	21.8	21.0	5.7	5.7	64.1	04./	18.5	10.2	7.97	8.0	0.15	0.15	49	04./



Date	21 Feb 24															
Location	Time	Depth (m)	Temp (o	DC)	DO (r	ng/L)	DO	(%)	Turbidi	ty (NTU)	р	Н	Sali	nity	SS(I	mg/L)
M5a	13:45	0.10	22.9 22.9	22.9	6.13 6.3	6.2	70.8 72.4	71.6	92.3 93.4	92.9	7.45 7.45	7.5	0.17 0.17	0.17	307 313	310.0

Date	23 Feb 24															
Location	Time	Depth (m)	Тетр	(oC)	DO (r	ng/L)	DO	(%)	Turbidi	ty (NTU)	р	Н	Sali	nity	SS(1	mg/L)
M5-	11.50	0.10	22.5	22.5	5.92	()	68.5	(0.1	60.4	50.5	7.31	7.2	0.14	0.14	213	210.5
MJa	11:50	0.10	22.5	22.5	6.12	0.0	69.7	09.1	58.7	39.3	7.31	1.5	0.14	0.14	226	219.5

Date	26 Feb 24														
Location	Time	Depth (m)	Temp (oC)	DO	(mg/L)	DO	(%)	Turbidi	ty (NTU)	р	H	Sali	inity	SS(1	mg/L)
M5a	13:00	0.10	<u>19.1</u> 19.1 19	1 <u>8.45</u> 8.39	- 8.4	92.1 91.2	91.7	130.7 128.4	129.6	7.50 7.50	7.5	0.15	0.15	399 418	408.5

Date	28 Feb 24															
Location	Time	Depth (m)	Temp ((0C)	DO (r	ng/L)	DO	(%)	Turbidi	ty (NTU)	р	Н	Sali	nity	SS(1	mg/L)
M5-	12.25	0.10	19.2	10.2	5.81	5 0	62.6	(2.1	59.2	50.0	7.16	7.2	0.15	0.15	747	527.5
MJa	13:33	0.10	19.2	19.2	5.78	3.8	61.5	02.1	58.7	39.0	7.16	1.2	0.15	0.15	328	337.3



Water Quality Monitoring Results Location: M6a

Date	2 Feb 24															
Location	Time	Depth (m)	Temp ((oC)	DO (r	ng/L)	DO	(%)	Turbidi	ity (NTU)	p	H	Sali	nity	SS(I	mg/L)
Méa	11.50	0.15	21.9	21.0	8.81	00	100.7	100.05	1.3	1.2	7.90	7.0	0.06	0.06	8.4	6.4
Ivioa	11:50	0.13	21.9	21.9	8.85	0.0	101.2	100.93	1.3	1.5	7.90	7.9	0.06	0.00	4.3	0.4

Date	5 Feb 24														
Location	Time	Depth (m)	Temp (oC)	DO (mg/L)	DO	(%)	Turbidi	ity (NTU)	р	Η	Sali	nity	SS(mg/L)
MC-	11.50	0.15	19.6	7.97	7.0	87.0	06 55	7.0	()	7.80	7.0	0.05	0.05	4.4	4.1
Moa	11:50	0.15	19.6	7.81	7.9	86.1	80.33	6.8	0.9	7.88	/.8	0.05	0.05	3.8	4.1

Date	7 Feb 24															
Location	Time	Depth (m)	Temp) (0C)	DO (1	ng/L)	DO	(%)	Turbidi	ity (NTU)	p	H	Sali	nity	SS(mg/L)
MG	11.50	0.15	19.6	10.6	8.24	0.2	89.9	90.15	6.0	()	7.80	7 0	0.04	0.04	15	14.6
Ivioa	11:50	0.15	19.6	19.0	8.18	0.2	88.4	09.15	5.9	0.0	7.88	/.8	0.04	0.04	14.1	14.0

Date	9 Feb 24															
Location	Time	Depth (m)	Temp (o	DC)	DO (r	ng/L)	DO	(%)	Turbidi	ty (NTU)	p	Н	Sali	nity	SS(n	ng/L)
M6a	12:00	0.15	19.2 19.2	19.2	8.25 8.14	8.2	89.7 88.9	89.3	3.5 3.6	3.6	7.22 7.20	7.2	0.05	0.05	6.4 5.4	5.9

Date	15 Feb 24															
Location	Time	Depth (m)	20).9	DO (I	ng/L)	DO	(%)	Turbidi	ty (NTU)	p	Н	Sali	nity	SS(1	mg/L)
M6a	13:05	0.20	20.9 20.9	20.9	8.18 8.03	8.1	91.5 90.1	90.8	1.6 1.6	1.6	7.33 7.35	7.3	0.05	0.05	4 7.6	5.8

Date	17 Feb 24								
Location	Time	Depth (m)	Temp (oC)	DO (mg/L)	DO (%)	Turbidity (NTU)	pН	Salinity	SS(mg/L)
MG	6.00	0.25	20.9	8.17	91.5 01.85	2.3	7.50 7.5	0.05	0.8
Moa	6:00	0.25	20.9	8.32 8.2	92.2 91.85	2.2 2.3	7.50	0.05	0.8 0.8

Date	19 Feb 24								
Location	Time	Depth (m)	Temp (oC)	DO (mg/L)	DO (%)	Turbidity (NTU)	pН	Salinity	SS(mg/L)
MG	(.00	0.25	20.8 20.8	8.28	92.6 01.25	2.4	7.47	0.05	1.9
Moa	0:00	0.25	20.8	7.93 8.1	90.1 91.33	2.2 2.3	7.47	0.05	1.7



Date	21 Feb 24															
Location	Time	Depth (m)	Temp) (0C)	DO (1	ng/L)	DO	(%)	Turbidi	ty (NTU)	р	Н	Sali	nity	SS(I	mg/L)
M6a	12.20	0.15	20.8	20.8	8.05	80	92.2	01 75	2.0	2.1	7.40	74	0.05	0.05	12.8	11.5
Ivioa	15:20	0.13	20.8	20.8	7.92	0.0	91.3	91.73	2.1	2.1	7.40	/.4	0.05	0.05	10.2	11.3

Date	23 Feb 24															
Location	Time	Depth (m)	Temp ((oC)	DO (r	ng/L)	DO	(%)	Turbidi	ty (NTU)	р	H	Sali	nity	SS(1	mg/L)
MC-	11.25	0.15	18.2	10.2	7.97	7.0	91.4	00.9	2.1	2.2	7.59	7.6	0.06	0.06	4.6	77
ivioa	11:25	0.15	18.2	10.2	7.82	7.9	90.2	90.8	2.3	2.2	7.59	/.0	0.06	0.06	10.8	1.1

Date	26 Feb 24															
Location	Time	Depth (m)	Temp	(0C)	DO (1	ng/L)	DO	(%)	Turbidi	ty (NTU)	p	H	Sali	nity	SS(1	mg/L)
M6a	12:40	0.15	18.2 18.2	18.2	8.72 8.66	8.7	95.6 94.2	94.9	1.3 1.3	1.3	7.54 7.54	7.5	0.08	0.08	<0.5 0.5	0.5

Date	28 Feb 24															
Location	Time	Depth (m)	Temp) (0C)	DO (I	mg/L)	DO	(%)	Turbidi	ity (NTU)	р	H	Sali	nity	SS(1	mg/L)
MG	12.15	0.20	19.4	10.4	8.81	0.0	95.7	05.6	0.1	0.1	7.65	77	0.05	0.05	4.5	2.0
Moa	13:15	0.20	19.4	19.4	8.8	0.0	95.5	95.0	0.1	0.1	7.65	/./	0.05	0.05	1.3	2.9



Water Quality Monitoring Results Location: D2a

Date	2 Feb 24															
Location	Time	Depth (m)	Тетр	0 (0C)	DO (I	ng/L)	DO	(%)	Turbidi	ty (NTU)	р	Н	Sali	nity	SS(1	mg/L)
D2-	12.55	0.20	22.4	22.4	7.92	7.6	92.1	01.5	15.8	15.5	7.15	7.2	2.37	2.27	17.2	16.0
DZa	12:55	0.30	22.4	22.4	7.24	/.0	90.8	91.5	15.2	15.5	7.15	1.2	2.37	2.37	16.6	10.9

Date	5 Feb 24												
Location	Time	Depth (m)	Temp (oC)	DO (mg/L)	DO (%)	Turbidi	ity (NTU)	р	Η	Sali	nity	SS(1	mg/L)
D2-	12.55	0.20	20.3 20.2	7.61 7.6	85.5	12.4	10.2	7.31	7.2	2.62	2.62	17.6	177
D2a	12:55	0.30	20.3	7.58	84.8 85.2	12.2	12.3	7.31	/.3	2.62	2.02	17.8	1/./

Date	7 Feb 24															
Location	Time	Depth (m)	Temp (o	(oC)	DO (1	ng/L)	DO	(%)	Turbidi	ty (NTU)	p	Н	Sali	nity	SS(1	mg/L)
D2-	12.55	0.20	20.3	20.2	7.24	7.2	81.3	80.0	11.0	10.0	7.37	7 4	2.69	2 (0	15.9	17.0
DZa	12:55	0.30	20.3	20.5	7.11	1.2	80.4	80.9	10.8	10.9	7.37	/.4	2.69	2.69	18.1	17.0

Date	9 Feb 24															
Location	Time	Depth (m)	Temp) (0C)	DO (I	mg/L)	DO	(%)	Turbidi	ity (NTU)	р	Н	Sali	nity	SS(1	mg/L)
D2-	12.00	0.20	19.8	10.9	7.51	7.4	84.4	020	13.0	10.7	7.15	7.2	2.66	200	18.8	19.0
D2a	13:00	0.30	19.8	19.8	7.32	/.4	83.1	83.8	12.4	12.7	7.15	1.2	2.66	2.00	19	18.9

Date	15 Feb 24															
Location	Time	Depth (m)	Temp) (0C)	DO (1	mg/L)	DO	(%)	Turbidi	ty (NTU)	р	Η	Sali	inity	SS(1	mg/L)
Dla	14.20	0.20	22.1	22.1	8.08	8.0	94.2	02.7	11.3	11 1	7.66	77	2.85	2.95	25	25.2
DZa	14:20	0.30	22.1	22.1	7.96	0.0	93.1	93.7	11.0	11.1	7.66	/./	2.85	2.85	25.3	23.2

Date	17 Feb 24															
Location	Time	Depth (m)	Temp) (0C)	DO (1	ng/L)	DO	(%)	Turbidi	ty (NTU)	р	Н	Sali	nity	SS(1	mg/L)
D2	15.25	0.25	22.1	22.1	8.05	0.0	93.7	10.2	10.5	10.4	7.50	7.5	2.88	2.00	20.5	20.9
D2a	15:35	0.35	22.1	22.1	7.91	8.0	91.4	10.2	10.2	10.4	7.50	7.5	2.88	2.88	21.1	20.8

Date	19 Feb 24								
Location	Time	Depth (m)	Temp (oC)	DO (mg/L)	DO (%)	Turbidity (NTU)	рН	Salinity	SS(mg/L)
Dla	15.25	0.25	21.56 21.58	7.93 7.0	90.8 00.5	477.5	7.45	2.63	596 (11.0
D2a	15:55	0.35	21.6	7.86	90.2 90.3	479.2 478.4	7.45	2.63 2.63	626 611.0



Date	21 Feb 24															
Location	Time	Depth (m)	Temp) (0C)	DO (I	ng/L)	DO	(%)	Turbidi	ity (NTU)	р	Н	Sali	nity	SS(I	mg/L)
Dla	14.25	0.20	23.9	22.0	7.92	7.0	86.7	026	15.1	15 0	7.54	75	2.87	2 07	15	12.5
D2a	14:55	0.30	23.9	25.9	7.88	7.9	78.5	82.0	16.4	13.8	7.54	7.5	2.87	2.07	10	12.5

Date	23 Feb 24															
Location	Time	Depth (m)	Temp (o	C)	DO (1	ng/L)	DO	(%)	Turbidi	ty (NTU)	p	Н	Sali	nity	SS(1	mg/L)
D2-	12.40	0.20	20.9	0.0	7.45	75	83.7	946	16.2	171	7.68	77	2.85	2.95	17.3	10.2
D2a	12:40	0.30	20.9	20.9	7.61	1.5	85.5	84.6	18.0	1/.1	7.68	1.1	2.85	2.85	19.1	18.2

Date	26 Feb 24															
Location	Time	Depth (m)	Тетр	0 (0C)	DO (1	ng/L)	DO	(%)	Turbidi	ity (NTU)	p	H	Sali	nity	SS(1	mg/L)
Dla	12.45	0.20	20.1	20.1	8.34	0 2	94.1	04.0	5.6	5 5	7.44	74	4.57	157	7.3	76
D2a	13:45	0.30	20.1	20.1	8.31	8.3	93.8	94.0	5.5	5.5	7.44	/.4	4.57	4.37	7.9	7.0

Date	28 Feb 24															
Location	Time	Depth (m)	Temp) (0C)	DO (1	ng/L)	DO	(%)	Turbidi	ty (NTU)	p	Н	Sali	nity	SS(1	mg/L)
D2a	14.20	0.20	20.3	20.2	8.08	01	90.5	00.4	2.6	27	7.46	75	2.26	2.26	7.8	0.2
D2a	14:20	0.30	20.3	20.5	8.07	8.1	90.2	90.4	2.8	2.7	7.46	7.5	2.26	2.20	8.7	8.3



Water Quality Monitoring Results

Location: 1	M7a

Date	2 Feb 24															
Location	Time	Depth (m)	Temp) (0C)	DO (r	ng/L)	DO	(%)	Turbidi	ty (NTU)	pl	H	Sali	nity	SS(n	ng/L)
M7-	10.05	0.20	21.9	21.0	7.03	7.2	79.4	90.45	5.3	5.2	7.47	75	0.12	0.1	4.3	1.6
ivi/a	12:25	0.30	21.9	21.9	7.28	1.2	81.5	80.45	5.2	5.5	7.47	1.5	0.12	0.1	4.8	4.6

Date	5 Feb 24															
Location	Time	Depth (m)	Temp) (0C)	DO (r	ng/L)	DO	(%)	Turbidi	ty (NTU)	p	Н	Sali	nity	SS(1	mg/L)
M7a	12.25	0.20	20	20	7.04	7.0	77.4	766	3.4	2.4	7.55	76	0.12	0.1	5.8	5.6
Ivi / a	12:23	0.50	20	20	6.91	7.0	75.8	/0.0	3.4	5.4	7.55	/.0	0.12	0.1	5.3	5.0

Date	7 Feb 24															
Location	Time	Depth (m)	Temp) (0C)	DO (I	ng/L)	DO	(%)	Turbidi	ity (NTU)	р	H	Sali	nity	SS(1	mg/L)
M7a	12:25	0.30	20 20	20	6.97 6.54	6.8	76.6 75.1	75.85	3.5 3.5	3.5	7.82 7.82	7.8	0.12 0.12	0.1	11.4 9.7	10.6

Date	9 Feb 24															
Location	Time	Depth (m)	Temp) (0C)	DO (1	ng/L)	DO	(%)	Turbidi	ty (NTU)	p	H	Sali	nity	I)SS	mg/L)
M7a	12.25	0.20	19.1	10.1	6.67	6.6	72.1	71 45	5.2	5 1	7.96	7.0	0.12	0.1	11.4	10.6
Ivi / a	12:55	0.30	19.1	19.1	6.52	0.0	70.8	/1.43	5.0	5.1	7.90	7.9	0.12	0.1	9.8	10.0

Date	15 Feb 24															
Location	Time	Depth (m)	Тетр	0 (0C)	DO (I	ng/L)	DO	(%)	Turbidi	ity (NTU)	р	Η	Sali	nity	SS(1	mg/L)
M7a	12.45	0.20	21.5	21.5	7.37	7 2	83.4	077	4.2	4.2	7.97	8.0	0.12	0.1	5	57
IVI / a	15:45	0.30	21.5	21.3	7.28	7.5	81.2	82.5	4.2	4.2	7.98	8.0	0.12	0.1	6.4	5.7

Date	17 Feb 24															
Location	Time	Depth (m)	Тетр	(oC)	DO (I	ng/L)	DO	(%)	Turbidi	ty (NTU)	р	Н	Sali	nity	SS(r	ng/L)
M7a	15.05	0.20	21.5	21.5	7.18	7 2	81.5	07 A	2.8	2.0	7.80	7 0	0.11	0.1	6.3	6.0
Ivi / a	15:05	0.30	21.5	21.3	7.22	1.2	83.2	62.4	2.9	2.9	7.88	/.0	0.11	0.1	5.6	0.0

Date	19 Feb 24															
Location	Time	Depth (m)	Temp	(0C)	DO (1	ng/L)	DO	(%)	Turbidi	ty (NTU)	p	H	Sali	nity	SS(1	mg/L)
M7-	15.05	0.20	21.4	21.4	7.28	7 2	82.1	82.0	10.3	11.1	7.77	7 0	0.06	0.1	11.9	11.7
IVI / a	15:05	0.30	21.4	21.4	7.25	1.3	81.8	82.0	11.8	11.1	7.78	/.8	0.06	0.1	11.5	11./

Date	21 Feb 24									
Location		Depth (m)	Temp (oC)	DO (mg/L)	DO (%)	Turbidity (NTU)	pН	Salinity	SS(mg/L)	

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N/7-	14.00	0.25	23.8	22.0	7.31	7 2	83.8	8 2 (2.8	20	7.35	7.4	0.14	0.1	7.7	0.7
M/a	14:00	0.25	23.8	23.8	7.28	7.3	81.4	82.6	2.8	2.8	7.35	/.4	0.14	0.1	8.6	8.2

Date	23 Feb 24															
Location	Time	Depth (m)	Тетр	0 (0C)	DO (1	ng/L)	DO	(%)	Turbidi	ty (NTU)	p	H	Sali	nity	SS(1	mg/L)
M7a	12.05	0.25	21.7	21.7	7.14	7.2	81.9	92.15	2.2	2.2	7.22	7 2	0.12	0.1	6.5	5 /
1 v1 /a	12:05	0.25	21.7	21./	7.3	1.2	82.4	02.15	2.2	2.2	7.22	1.2	0.12	0.1	4.3	3.4

Date	26 Feb 24															
Location	Time	Depth (m)	Temp) (0C)	DO (1	ng/L)	DO	(%)	Turbidi	ty (NTU)	p]	H	Sali	nity	SS(1	mg/L)
M7-	12.15	0.25	18.8	10.0	8.55	0.5	93.8	02.25	4.4	1 2	7.85	7.0	0.12	0.1	15	11.2
M/a	13:15	0.25	18.8	18.8	8.42	8.3	92.7	95.25	4.3	4.5	7.85	7.9	0.12	0.1	7.5	11.5

Date	28 Feb 24															
Location	Time	Depth (m)	Temp) (0C)	DO (1	ng/L)	DO	(%)	Turbidi	ty (NTU)	p	Н	Sali	nity	SS(1	mg/L)
M7-	12.50	0.20	20.1	20.1	6.65	(7	72.8	72.95	1.3	1.2	7.27	7.2	0.12	0.1	8.8	97
IVI / a	13:50	0.30	20.1	20.1	6.68	0./	72.9	/2.85	1.3	1.5	7.27	1.5	0.12	0.1	8.6	8./



Water Quality Monitoring Results Location: D5a

Date	2 Feb 24															
Location	Time	Depth (m)	Temp) (0C)	DO (I	mg/L)	DO	(%)	Turbidi	ty (NTU)	р	Н	Sali	nity	SS(1	mg/L)
DSa	12.40	0.20	21.6	21.6	7.26	7.2	86.5	96.1	6.8	67	7.85	7.0	8.13	0 1	7.5	7.0
DSa	12:40	0.20	21.6	21.0	7.1	1.2	85.7	80.1	6.6	0.7	7.85	7.9	8.13	0.1	6.4	7.0

Date	5 Feb 24															
Location	Time	Depth (m)	Temp) (0C)	DO (I	ng/L)	DO	(%)	Turbidi	ity (NTU)	р	H	Sali	nity	SS(1	mg/L)
Df	12.40	0.25	19.5	10.5	5.76	57	62.9	(1.0	8.4	0.4	7.60	7.0	0.51	0.5	9.6	0.2
D5a	12:40	0.25	19.5	19.5	5.56	5.7	60.8	61.9	8.3	8.4	7.60	/.0	0.51	0.5	9	9.3
Date	7 Feb 24															
Location	Time	Depth (m)	Temp) (0C)	DO (I	ng/L)	DO	(%)	Turbidi	ity (NTU)	р	Н	Sali	nity	SS(1	mg/L)
Df	12.40	0.25	19.5	10.5	5.8	5 (63.4	64.4	8.8	07	7.70	77	0.51	0.5	12.2	11.2
DSa	12:40	0.25	19.5	19.5	5.47	3.6	65.3	04.4	8.7	ð./	7.70	/./	0.51	0.5	10.3	11.5

Date	9 Feb 24															
Location	Time	Depth (m)	Temp	0 (0C)	DO (I	mg/L)	DO	(%)	Turbidi	ty (NTU)	р	H	Sali	nity	SS(1	mg/L)
DSa	12.50	0.25	18	10.0	5.61	5.4	59.8	50.1	5.8	57	7.55	76	1.32	1 2	14.8	10.6
DSa	12:50	0.25	18	18.0	5.23	5.4	58.3	39.1	5.6	5.7	7.55	/.0	1.32	1.5	6.4	10.0

Date	15 Feb 24															
Location	Time	Depth (m)	Temp) (0C)	DO (I	ng/L)	DO	(%)	Turbidi	ity (NTU)	р	H	Sali	nity	SS(1	mg/L)
Df	14.00	0.20	22.3	22.2	5.26	5.2	60.6	50 (4.5	15	7.15	7.2	0.68	0.7	4.7	4.5
DSa	14:00	0.30	22.3	22.3	5.13	5.2	58.7	39.0	4.4	4.5	7.15	1.2	0.68	0.7	4.3	4.5
Date	17 Feb 24				-		•		•			•	•			
Location	Time	Depth (m)	Temp) (0C)	DO (I	ng/L)	DO	(%)	Turbidi	ity (NTU)	р	H	Sali	nity	SS(1	mg/L)
D5a	15.20	0.25	22.2	22.2	5.42	5 2	62.4	61.4	4.4	4.4	7.60	76	0.69	0.7	4.2	1 1
Doa	15:20	0.35	22.2	22.2	5.25	5.5	60.3	01.4	4.3	4.4	7.60	/.0	0.69	0.7	4.5	4.4

Date	19 Feb 24															
Location	Time	Depth (m)	Temp) (0C)	DO (1	ng/L)	DO	(%)	Turbidi	ty (NTU)	p	Н	Sali	nity	SS(1	mg/L)
D5a	15.20	0.35	21.9	21.0	5.23	53	57.8	50.4	15.0	15.0	7.50	75	0.56	0.6	4.5	18
DJa	15.20	0.55	21.9	21.9	5.3	5.5	60.9	39.4	15.0	15.0	7.50	7.5	0.56	0.0	5	4.0

Date	21 Feb 24															
Location	Time	Depth (m)	Temp (oC)		DO (1	ng/L)	DO	(%)	Turbidi	ty (NTU)	pl	H	Sali	nity	SS(1	ng/L)
D5a	14:15	0.30	22.5	22.5	5.21	5.2	59.8	59.0	2.9	3.0	7.11	7.1	3.75	3.8	9	9.5

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			22.5		5.15		58.1		3.1		7.11		3.75		9.9	
Date	23 Feb 24															
Location	Time	Depth (m)	Temp) (0C)	DO (1	mg/L)	DO	(%)	Turbidi	ity (NTU)	p	Н	Sali	nity	SS(1	mg/L)
DSa	12.20	0.20	22.2	22.2	5.38	5.4	63.1	62.0	2.9	2.0	7.15	7 2	3.64	26	10.3	10.1
DSa	12:20	0.50	22.2	22.2	5.5	5.4	64.7	05.9	2.9	2.9	7.15	1.2	3.64	5.0	9.9	10.1

Date	26 Feb 24															
Location	Time	Depth (m)	Temp	(oC)	DO (1	ng/L)	DO	(%)	Turbidi	ty (NTU)	р	Н	Sali	nity	SS(1	mg/L)
D5-	12.20	0.20	19.7	10.7	6.43	6.4	70.6	70.4	6.2	()	7.95	8.0	0.83	0.9	5.7	5 5
DSa	13:30	0.30	19.7	19./	6.41	0.4	70.1	/0.4	6.2	0.2	7.95	8.0	0.83	0.8	5.2	5.5

Date	28 Feb 24															
Location	Time	Depth (m)	Temp) (0C)	DO (I	ng/L)	DO	(%)	Turbidi	ity (NTU)	p	H	Sali	nity	SS(1	mg/L)
D5-	14.05	0.20	20	20.0	6.6	((73.5	72.0	3.6	25	7.20	7.2	1.50	1.5	5.1	5.5
D5a	14:05	0.30	20	20.0	6.52	0.0	72.1	12.8	3.4	5.5	7.20	1.2	1.50	1.5	5.8	5.5



Appendix J2

Summary of Exceedance Records

Summary of Investigation results of Exceedance of A/L Level for Water Quality Monitoring

Date	Station	Parameter	Exceedance	Investigation	Action
10 Oct 2023	D2a	Turbidity and Suspended Solids	Limit Level	There was heavy rainstorm on 9 and 10 Oct after typhoon. The water quality in the channel was deteriorated by runoff from the surrounding environment. It was concluded that the exceedances were not project related.	Since the exceedances were non-project related, increase monitoring frequency according to the requirement of Event and Action Plan is not required.
8 Jan 2024	M1a	Turbidity and Suspended Solids	Limit Level	Turbid water was observed flowing from upstream of work area and reaching M1a and there was no construction work carried out in the respective section of nullah, and no discharge made from construction sites associated with the Project. It is concluded that the exceedances were not related to the works under the Project.	Since the exceedances were non-project related, increase monitoring frequency according to the requirement of Event and Action Plan is not required, and corrective action is not required.
19 Jan 2024	М3	Turbidity and Suspended Solids	Limit Level	Contractor of C2 advised that no pre-drill works were conducted between monitoring M1a and M3 on 19 Jan 2024, but preparation works for temporary deck was conducted. Mitigation measures such as the sandbag barrier, steel plate cover along the active work areas were in place and no muddy runoff into the Yuen Long Nullah is observed. It is concluded that the exceedances were not related to the works under the Project.	Repeat measurement of in-situ parameter turbidity was conducted on 20 January 2024 and no exceedance was recorded. As the exceedances were concluded as non-Project related, corrective action is not required.
19 Feb 2024	Mla	Turbidity and Suspended Solids	Limit Level	The Contractor of C3 advised that no piling works or pre-drilling works had been conducted along Shan Ha Road nullah. Welding works of H-pile, TTA and housekeeping of nullah were being conducted on that day along the nullah. Based on ET's site inspection on 22 Feb 2024, it is observed that no piling works or pre-drilling works was observed to be conducted along Shan Ha Road nullah, and there was no discharge made from the site of C3. It is considered that the exceedances were unlikely due the Project.	Since the exceedances were non-project related, increase monitoring frequency according to the requirement of Event and Action Plan is not required, and corrective action is not required.

Location	Disso Oxy	olved /gen	Turb	oidity	Suspend	ed Solids	Non-p rela Excee	roject ted dance	Proje Relate Exceeda	ect ed ance
	AL	LL	AL	LL	AL	LL	AL	LL	AL	LL
M1a	0	0	0	1	0	1	0	2	0	0
M2a	0	0	0	0	0	0	0	0	0	0
M3	0	0	0	1	0	1	0	2	0	0
M4	0	0	0	0	0	0	0	0	0	0
D2a	0	0	0	1	0	1	0	2	0	0
No of Exceedance	0	0	0	3	0	3	0	6	0	0

Cumulative Action/ Limit Level Exceedance for Water Quality



Appendix K

Graphical Plots for Monitoring Result



<u>Air Quality – 1-hour TSP</u>







Construction Noise

















Water Quality







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Appendix L

Waste Flow Table

CONTRACT NO. YL/2021/03 <u>Yuen Long South Development Site Formation and</u> <u>Infrastructure Works for Yuen Long South First Phase Development - Contract 1</u>

Monthly Summary Waste Flow Table for 2024 (Year)

	Actual	Quantities of I	nert C&D Mat	erials Generated M	[onthly	Actual Quantities of Non-inert C&D Materials Generated Monthly						
Month	Total Quantity Generated	Hard Rocks & Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Metals	Paper / cardboard packaging	Plastics	Chemical waste	Others (general refuse)		
	(in tons)	(in tons)	(in tons)	(in tons)	(in tons)	(in tons)	(in tons)	(in tons)	(in tons)	(in tons)		
Jan	13154.42	0.00	0.00	0.00	13139.87	0.00	0.00	0.00	0.00	14.55		
Feb	4526.98	0.00	3000.00	0.00	1526.98	0.00	0.00	0.00	0.00	0.00		
Mar												
Apr												
May												
Jun												
Sub-total	17681.40	0.00	3000.00	0.00	14666.85	0.00	0.00	0.00	0.00	14.55		
July												
August												
September												
October												
November												
December												
Year - 2022	100.17	0.00	0.00	28.25	0.00	0.00	0.00	0.00	0.00	71.92		
Year - 2023	25177.25	0.00	0.00	0.00	24627.56	93.07	0.08	0.05	2.82	453.68		
Grand Total	42958.82	0.00	3000.00	28.25	39294.41	93.07	0.08	0.05	2.82	540.15		

Notes: (1) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.

(2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.

(3) Broken concrete for recycling into aggragates.

(4) Non-inert portion including bamboo, timber, plywood and general refuse transfered to West East New Territories (WENT).

(5) Inert portion including Soil, building, debris, broken rock and concrete transfered toTuen Mun Area 38 Fill Bank.

(6) Slurry and bentonite transfered to Tsueng Kwan O Area 137 Fill Bank.

Contract No.: <u>YL/2021/04</u>

		Actual	Quantities of In	ert C&D Mater	ials Generated	Monthly	Actual Quantities of Non-Inert C&D Wastes Generated Monthly					
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete (see Note 3)	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 2)	Chemical Waste	Others, e.g. general refuse	Yard waste
	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in tonnes)	(in kg)	(in tonnes)	(in tonnes)	(in tonnes)
Jan	5,984.19	0.00	0.00	0.00	4,298.97	1,463.11	0.00	0.14	2.5	0.00	219.47	8.10
Feb	8,235.40	0.00	0.00	0.00	6,250.55	1,900.86	27.61	0.29	3.1	0.00	52.99	0.00
Mar	0.00											
Apr	0.00											
May	0.00											
June	0.00											
Sub-total	14,219.59	0.00	0.00	0.00	10,549.52	3,363.97	27.61	0.43	5.60	0.00	272.46	8.10
July	0.00											
Aug	0.00											
Sept	0.00											
Oct	0.00											
Nov	0.00											
Dec	0.00											
Sub-total	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.00	0.000	0.00	0.00	0.00
Total	14,219.59	0.00	0.00	0.00	10,549.52	3,363.97	27.610	0.43	5.600	0.00	272.46	8.10

Waste Flow Table for <u>2024</u> (Year)

Notes:

(1) The waste flow table shall also include C&D materials that are specified in the Contract to be imported for use at the Site.

(2) Plastics refer to plastic bottles/containers, plastic sheets/foam from packaging material.

(3) Broken concrete for recycling into aggregates.

(4) Assume 1 liter of lubircant oil is equivalent 0.88 kilogram

Monthly Summary Waste Flow Table for <u>2024</u> (year)

Name of Person completing the record: <u>Calvin So (EO)</u>

Project : Si	oject : Site Formation and Infrastructure Works for Yuen Long South First Phase Development – Contract 3 Contract No.: YL/2022/01										
		Actual Quantit	ies of Inert C&	D Materials Ger	nerated Monthly		Ac	tual Quantities	of C&D Waste	s Generated Mo	onthly
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000m ³)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000 m ³)
(in '000m ³) (in '000kg) (in '000kg								0.000	0.000	0.718	
Feb	1.562	0.000	0.000	0.000	0.408	0.762	0.000	0.030	0.004	0.358	
Mar											
Apr											
May											
Jun											
Sub-total	5.983	0.000	0.000	0.000	4.111	0.762	0.000	0.030	0.004	0.000	1.076
Jul											
Aug											
Sep											
Oct											
Nov											
Dec											
Total	5.983	0.000	0.000	0.000	4.111	0.762	0.000	0.030	0.004	0.000	1.076

Note:

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

2. For inert portion of C&D material, assume 6 m³ per each full-filled dump truck.

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



Appendix M

Environmental Complaints Log



Environmental Complaint Log

Log ref.	Date of Complaint	Complaint Route	Complaint Nature	Investigation fining	Status



Appendix N

Implementation Schedule for Environmental Mitigation Measures

Environmental Mitigation Implementation Schedule

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objective of the Recommended Measures & Main Concerns to Address	Implementation Agent	Location / Timing	Requirements and / or standards to be achieved	Imple Statu	ementati Is	on
Commo	on Mitigation	n Measures (Applicable to ALL Project Components, includi	ng DPs and Non-DPs)				<u> </u>		1
Constru	uction Dust I	mpact	1	I	I		<u>C1</u>	C2	C3
S4.4.6	D1	Water spraying every hour on exposed worksites and haul road.	Minimise dust impact at the nearby sensitive receivers	Contractor	All construction sites	• APCO To control the dust impact to meet HKAQO and EIAO- TM criteria	V	V	V
S4.4.6	D2	The contractor shall follow the procedures and requirements given in the Air Pollution Control (Construction Dust) Regulation.	Minimise dust impact at the nearby sensitive receivers	Contractor	All construction sites	• APCO To control the dust impact to meet HKAQO and EIAO- TM criteria	V	V	\checkmark
S4.4.6	D3	 The following dust suppression measures should be incorporated to control the dust nuisance throughout the construction phase: Any excavated or stockpile of dusty material should be covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading; Any dusty materials remaining after a stockpile is removed should be wetted with water and cleared from the surface of roads; A stockpile of dusty material should not be extended beyond the pedestrian barriers, fencing or traffic cones; 	Minimise dust impact at the nearby sensitive receivers	Contractor	All construction sites	• APCO To control the dust impact to meet HKAQO and EIAO- TM criteria	V	V	

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objective of the Recommended Measures & Main Concerns to	Implementation Agent	Location / Timing	Requirements and / or standards to be achieved	Implementation Status		on
Commo	on Mitigation	Measures (Applicable to ALL Project Components, includi	Address ng DPs and Non-DPs)						
Constru	iction Dust I	impact	<u>a</u>				C1	C2	C3
		• The load of dusty materials on a vehicle leaving a construction site should be covered entirely by impervious sheeting to ensure that the dusty materials do not leak from the vehicle;							
		• Where practicable, vehicle washing facilities with high pressure water jet should be provided at every discernible or designated vehicle exit point. The area where vehicle washing takes place and the road section between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores;							
		• When there are open excavation and reinstatement works, hoarding of not less than 2.4m high should be provided as far as practicable along the site boundary with provision for public crossing. Good site practice shall also be adopted by the Contractor to ensure the conditions of the hoardings are properly maintained throughout the construction period;							
		• The portion of any road leading only to construction site that is within 30m of a vehicle entrance or exit should be kept clear of dusty materials;							
		• Surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operation takes place should be sprayed with water or a dust suppression chemical continuously;							
		• Any area that involves demolition activities should be							

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objective of the Recommended Measures	Implementation Agent	Location / Timing	Requirements and / or standards to	Implementation Status		on
			& Main Concerns to Address			be achieved			
Commo	on Mitigation	Measures (Applicable to ALL Project Components, includi	ng DPs and Non-DPs)						
Constru	ection Dust I	mpact			-		C1	C2	C3
		sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities so as to maintain the entire surface wet;							
		• Where a scaffolding is erected around the perimeter of a building under construction, effective dust screens, sheeting or netting should be provided to enclose the scaffolding from the ground floor level of the building, or a canopy should be provided from the first floor level up to the highest level of the scaffolding;							
		• Any skip hoist for material transport should be totally enclosed by impervious sheeting;							
		• Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA) should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3 sides;							
		• Cement or dry PFA delivered in bulk should be stored in a closed silo fitted with an audible high level alarm which is interlocked with the material filling line and no overfilling is allowed;							
		• Loading, unloading, transfer, handling or storage of bulk cement or dry PFA should be carried out in a totally enclosed system or facility, and any vent or exhaust should be fitted with an effective fabric filter or equivalent air pollution control system; and							
		• Exposed earth should be properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen,							

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objective of the Recommended Measures & Main Concerns to Address	Implementation Agent	Location / Timing	Requirements and / or standards to be achieved	Imple Statu	ementati s	on
Commo	on Mitigation	n Measures (Applicable to ALL Project Components, includi	ng DPs and Non-DPs)						
Constru	uction Dust l	Impact					C1	C2	C3
		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.							
S4.4.6	D4	Implement regular dust monitoring under EM&A programme during the construction stage.	Monitoring of dust impact	Contractor	Selected dust monitoring stations	EIAO-TM	V	V	V

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objective of the Recommended Measures & Main Concerns to Address	Implementation Agent	Location / Timing	Requirements and / or standards to be achieved	Imple Statu	Implementation Status		
Constru	uction Noise		Address				C1	C2	C3	
\$5.5.3	N1	Implement construction noise mitigation measures, including, but not limited to, good site management practices, use of quiet plant, installation of movable temporary noise barrier and setup up of liaison group to ensure construction noise impacts at the NSRs comply with the construction noise criteria.	Control construction noise impacts	Contractor	All construction sites	EIAO-TM	V	1	V	
		1. Good site management practices								
		• only well-maintained plant should be operated on- site and plant should be serviced regularly during the construction programme;								
		• machines and plant (such as trucks, cranes) that may be in intermittent use should be shut down between work periods or should be throttled down to a minimum;								
		• plant known to emit noise strongly in one direction, where possible, be orientated so that the noise is directed away from nearby NSRs;								
		 silencers or mufflers on construction equipment should be properly fitted and maintained during the construction works; 								
		 mobile plant should be sited as far away from NSRs as possible and practicable; and 								
		• material stockpiles, site office and other structures should be effectively utilised, where practicable, to screen noise from on-site construction activities.								
		2. Use of quiet plant								

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objective of the Recommended Measures & Main Concerns to Address	Implementation Agent	Location / Timing	Requirements and / or standards to be achieved	Imple Statu	ementati Is	on
Constru	ction Noise	2					C1	C2	C3
		 Use of quiet plant listed in the Quality Powered Mechanical Equipment (QPME) / other commonly used PME listed in Environmental Protection Department (EPD) web pages. 3. Installation of movable temporary noise barrier Install movable temporary noise barriers (typical design is wooden framed barrier with a small- cantilevered upper portion of superficial density no less than 7kg/m² on a skid footing with 25mm thick internal sound absorptive lining), and full enclosure, screen the noisy plants including air compressors, generators etc. 4. Setup of liaison group Setup a liaison group among CEDD, relevant government departments, contractors of the work contracts, etc. during construction phase to ensure 							
		proper implementation of the proposed noise mitigation measures.							
\$5.5.3	N2	Carry out construction noise monitoring in accordance with the EM&A Manual.	Monitor the construction noise impacts	Contractor	Selected noise monitoring stations	EIAO-TM			

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objective of the Recommended Measures & Main Concerns to Address	Implementation Agent	Location / Timing	Requirements and / or standards to be achieved	Imple Statu	ementat Is	tion
Water Out	lity (Const	ruction Phase)	1 1001 055				C1	C2	C3
S6.8.1.2	W1	 General Construction Activities In accordance with the Practice Note for Professional Persons on Construction Site Drainage, Environmental Protection Department, 1994 (ProPECC PN1/94), best management practices should be implemented on site as far as practicable. The best practices are detailed below: 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. 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; 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 minimise polluted runoff. Sedimentation tanks with sufficient capacity, constructed from pre-formed individual cells of approximately 6 to 8 m³ capacities, are recommended as a general mitigation measure which can be used for settling surface runoff prior to disposal. The system capacity shall be flexible and able to handle multiple inputs from a variety of sources and suited to applications where the influent is pumped; The dikes or embankments for flood protection should be implemented around the boundaries of earthwork areas. Temporary ditches should be provided to facilitate the runoff discharge into an 	To minimise water quality impact from construction site runoff and general construction activities	Contractor	All construction sites where applicable	 Water Pollution Control Ordinance ProPECC PN1/94 EIAO-TM TM-DSS 			

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objective of the Recommended Measures & Main Concerns to	Implementation Agent	Location / Timing	Requirements and / or standards to be achieved	Implementation Status		tion
			Address						
Water Que	ility (Const	ruction Phase)			I	I	C1	C2	C3
		appropriate watercourse, through a silt/sediment trap. The silt/sediment traps should be incorporated in the permanent drainage channels to enhance deposition rates;							
		• The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94. The detailed design of the sand/silt traps should be undertaken by the contractor prior to the commencement of construction;							
		• Construction works should be programmed to minimise surface excavation works during the rainy seasons (April to September). All exposed earth areas should be completed and vegetated as soon as possible after earthworks have been completed. If excavation of soil cannot be avoided during the rainy season, or at any time of year when rainstorms are likely, exposed slope surfaces should be covered by tarpaulin or other means;							
		• All drainage facilities and erosion and sediment control structures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rainstorms. Deposited silt and grit should be removed regularly and disposed of by spreading evenly over stable, vegetated areas;							
		• 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							

EIA Ref.	EM&A Log	Recommended Mitigation Measures	Objective of the Recommended Measures	Implementation Agent	Location / Timing	Requirements and / or standards to	Imple Statu	tion	
	Kei		& Main Concerns to Address			be achieved			
Water Qua	ulity (Const.	ruction Phase)		1	1	1	C1	C2	C3
Water Quo	Ref	 ruction Phase) facilities; All open stockpiles of construction materials (for example, aggregates, sand and fill material) should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system; Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and storm runoff being directed into foul sewers; Precautions to be taken at any time of year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forecasted, and actions to be taken during or after rainstorms are summarized in Appendix A2 of ProPECC PN 1/94. Particular attention should be paid to the control of silty surface runoff during storm events; All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and sited wheel washing facilities should be provided at every construction site exit where practicable. Wash-water should have sand and silt settled out and removed at least on a 	& Main Concerns to Address			be achieved	Cl	<u>C2</u>	СЗ
		weekly basis to ensure the continued efficiency of							
		and exiting from, the wheel-wash bay to the public							
		road should be paved with sufficient backfall toward							

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objective of the Recommended Measures & Main Concerns to Address	Implementation Agent	Location / Timing	Requirements and / or standards to be achieved	Impl Statu	ementat 15	tion
Water Out	ulity (Const	ruction Phase)	11001000				C1	C2	C3
Water Qui	ility (Const	 the wheel-wash bay to prevent vehicle tracking of soil and silty water to public roads and drains; Oil interceptors should be provided in the drainage system downstream of any oil/fuel pollution sources. The oil interceptors should be emptied and cleaned regularly to prevent the release of oil and grease into the storm water drainage system after accidental spillage. A bypass should be provided for the oil interceptors to prevent flushing during heavy rain; Construction solid waste, debris and rubbish on site should be collected, handled and disposed of properly to avoid water quality impacts; All fuel tanks and storage areas should be provided with locks and sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank to prevent spilled fuel oils from reaching water sensitive receivers nearby;and Regular environmental audit on the construction site should be carried out in order to prevent any 					Cl		C3
		should be carried out in order to prevent any malpractices. Notices should be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the water bodies, mangroves and open sea.							
S6.8.1.4	W2	 Prevention of Accidental Spillage of Chemicals The chemicals used during construction, such as fuel, oil, solvents and lubricants shall be properly stored and contained in designated area with secondary containment to prevent spillage and contamination of the nearby water environment. 	To prevent water quality impact due to chemical spillage	Contractor	All construction sites where practicable	 Water Pollution Control Ordinance Waste Disposal (Chemical Waste) 	V	V	V

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objective of the Recommended Measures & Main Concerns to	Implementation Agent	Location / Timing	Requirements and / or standards to be achieved	Impl Stati	Implementation Status	
W (O	1. (0)		Address				01	C 2	62
Water Qua	ility (Const	ruction Phase)	1	I			CI	C2	C3
		• Any maintenance activities and workshops with chemicals use shall be located away from watercourses on hard standings within a bunded area. Sumps and oil interceptors should be provided as appropriate.				(General) Regulation			
		• The Contractor shall register as a chemical waste producer and employ licensed collector for collection of chemical waste from the construction site. Any chemical waste generated shall be managed in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.							
S6.8.1.7	W3	 Sewage from workforce Portable chemical toilets and sewage holding tanks are recommended for handling the construction sewage generated by the workforce. A licensed contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance; Notices should be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the nearby environment during the construction phase of the Project; Regular environmental audit on the construction site should be conducted in order to provide an effective control of any malpractices and achieve continual improvement of environmental performance on site. 	To minimise water quality impact from sewage effluent in construction phase	Contractor	All construction sites where practicable	Water Pollution Control Ordinance TM-DSS	~	V	~
S6.8.1.9	W4	Contaminated Groundwater and Site Runoff	To minimise water quality impact	Contractor	All construction	TM-DSS	\checkmark	\checkmark	V

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objective of the Recommended Measures & Main Concerns to	Implementation Agent	Location / Timing	Requirements and / or standards to be achieved	Impl Statu	Implementation Status	
			Address						T
Water Que	ility (Const	ruction Phase)	1	T	0	1	C1	C2	C3
		To prevent the water quality due to the contaminated water from the area with contamination, the following mitigation measures should be adopted.	from contaminated groundwater in construction phase		sites where practicable				
		the generation of contaminated water.							
		• No open stockpiling of contaminated soil should be allowed to prevent generation of contaminated water due to precipitation.							
		• Contaminated water, either from groundwater or runoff, should be treated by wastewater treatment facility (WTF) to an acceptable level as indicated in TM-DSS before disposal if the deployment of such WTF is feasible.							
		• Recharging the contaminated groundwater back to the aquifer should be sought if treatment of the contaminated groundwater by WTF is not feasible, subject to the agreement with EPD.							
S6.8.1.10	W5	 <u>Construction Works of near/within Watercourses</u> Cofferdams and impermeable sheet piles should be installed as appropriate to isolate the flow of the nullah from the construction works area. The detailed design of the cofferdams will be conducted by the Contractor during the construction phase to fulfil the requirements in DSD Technical Circular No. 1/2017 "Temporary Flow Diversions and Temporary Works Affecting Capacity in Stormwater Drainage System" for DSD approval, in order to formulate feasible options of these temporary structure 	To avoid any direct water quality impact to existing watercourses	Contractor	All construction sites where practicable	• ETWB TC (Works) No. 5/2005	V	V	V

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objective of the Recommended Measures & Main Concerns to Address	Implementation Agent	Location / Timing	Requirements and / or standards to be achieved	Imple Statu	Implementation Status		
Water Out	ılitv (Const	ruction Phase)	11001055				C1	C2	C3	
~		 Stockpiling of construction materials and dusty materials should be located from any watercourses, contained in bunded areas and covered with tarpaulin. Construction debris and spoil should be covered 								
		with tarpaulin during storage. Timely removal of materials away from the site for disposal should be arranged to avoid being washed into the nearby watercourses.								
		• Water pumps should be used to collect any wastewater and construction site surface runoff within the cofferdam/ temporary works platform. The collected wastewater shall be properly treated before discharge.								
		 Toe-board and bunds shall be provided along the edge of the works area/ temporary platform to prevent wastewater/ debris from falling into the watercourses. Any temporary works site inside the watercourses should be temporarily isolated, such as by placing of sandbags or silt curtains with lead edge at bottom and properly supported props to prevent adverse impact on the water quality. Proper shoring may need to be erected in order to prevent soil / mud from slipping into the inland 								
		water bodies.Construction effluent, site run-off and sewage should be properly collected and/or treated.								

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objective of the Recommended Measures & Main Concerns to Address	Implementation Agent	Location / Timing	Requirements and / or standards to be achieved	Impl Statu	ementa 15	tion
Water Ou	ality (Const	ruction Phase)	11001000				C1	C2	C3
S6.8.1.11	W6	 <u>Removal/ Diversion of watercourses</u> Cofferdams and impermeable sheet piles should be installed as appropriate to isolate the water flow from the construction works area. Dewatering or flow diversion shall be conducted prior to the construction works to prevent water overflow to the surrounding area. Watercourse removal and flow diversion should be conducted in dry season as far as practicable when the water flow is low. Water drained from the watercourse shall be diverted to new/ temporary drainage for watercourse diversion. For watercourse removal, the water drained shall be collected and treated to meet the requirements of WPCO and TM- DSS before discharge. Any excavated land-based sediment from the removal/ diversion of watercourse shall be properly stored at bunded areas away from any watercourse and covered with tarpaulin before transporting out of the site. 	To avoid water quality impact on existing watercourses to be retained	Contractor	All construction sites where practicable	 Water Pollution Control Ordinance TM-DSS ETWB TC (Works) No. 5/2005 ProPECC PN1/94 			
S6.8.1.12	W7	 <u>Removal/Filing of ponds</u> Dewatering shall be conducted prior to the construction works to prevent water overflow to the surrounding area. Water drained from the ponds shall be collected in appropriate temporary storage tank and reuse on-site as far as practicable. Surplus drained water shall be properly disposal at STW. No direct 	To avoid water quality impact on existing watercourses to be retained	Contractor	All construction sites where practicable	ProPECC PN1/94	NA	NA	√

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objective of the Recommended Measures & Main Concerns to Address	Implementation Agent	Location / Timing	Requirements and / or standards to be achieved	Impl Statı	ementa 15	tion
Water Qua	ility (Const	ruction Phase)					C1	C2	C3
		 discharge to stormwater drainage system or marine water should be allow. Any excavated land-based sediment from the ponds shall be properly stored at bunded areas away from any watercourse and covered with tarnaulin before transporting out of the site. 							

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objective of the Recommended Measures & Main Concerns to Address	Implementation Agent	Location / Timing	Requirements and / or standards to be achieved	Impl State	ementat us	tion
Ecolog	v (Constru	ction Phase)					C1	C2	C3
\$8.6.6	EC7	Precautionary surveys to check for presence of any aquatic fauna species of conservation importance in the watercourses to be directly impacted before commencement of works; affected aquatic fauna of conservation importance shall be captured and translocated to suitable receptor site(s)	To minimise direct impacts on aquatic species of conservation importance	CEDD/ Contractor	All affected watercourses Before commencement of construction works	EIAO-TM	V	V	V
S8.6.5	EC8	To conduct a baseline plant survey within all proposed works areas to ascertain the presence and update the quantities and conditions of any flora species of conservation importance; to transplant all affected plant species of conservation importance to suitable receptor site(s) before commencement of construction works	To minimise direct impacts on plant species of conservation importance	CEDD/ Contractor	All potential works areas Before commencement of construction works	EIAO-TM	V	V	V
\$8.6.2	EC9	To designate 15m wide buffer on both sides of the retained watercourses; the protected zones will be maintained and properly protected by solid barriers throughout the construction phase Aquatic faunal monitoring on monthly basis shall be conducted when there are construction activities within 100m of the three retained watercourses in Area 1 and Area 3 and the new watercourse along the hillside of the western boundary of Area 3.	To minimise direct construction phase impacts on retained watercourses	CEDD/ Contractor	Retained watercourses and their buffer zones, and the new hillside river Construction phase	EIAO-TM	NA	NA	NA
S8.8	EC10	Egretry location shall be checked for any evidence of occupation during the ardeid breeding season by a qualified ecologist of the ET prior to the commencement of any works activity within 250m of the egretry; to monitor regularly the conditions of the egretry and potential impacts to egretry flight-lines.	To minimise disturbance impacts to egretry	CEDD/ Contractor	Existing and all potential egretry location(s) within 250m from any works activity Before commencement of the construction	EIAO-TM	V	~	1

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objective of the Recommended Measures & Main Concerns to Address	Implementation Agent	Location / Timing	Requirements and / or standards to be achieved	Impl Statu	Implementation Status	
Ecolog	y (Constru	ction Phase)			•		C1	C2	C3
					works and monitoring throughout the construction phase				
S8.6.6	EC11	Checking and clearance for nesting birds (buildings and vegetation) shall be conducted/ supervised by a qualitied ecologist with relevant experience	To minimise direct impacts on nesting birds	CEDD/ Contractor	All works areas Before commencement of construction work	EIAO-TM	V	V	V
S8.6.6	EC12	Checking and clearance of bat roosts shall be conducted/ supervised by a qualitied ecologist with relevant experienced	To minimise direct impacts on bat roost(s)	CEDD/ Contractor	All works areas Before commencement of construction work	EIAO-TM	V	V	V
S8.6.6	EC13	Good site practices to control construction phase water quality impacts	To minimise induced water quality impacts on nearby water bodies	CEDD/ Contractor	All works areas Construction Phase	EIAO-TM	V	V	V
S8.6.6	EC14	To provide woodland mix planting of at least 1:1 compensation area ratio for the cumulative loss of approximately 2.42ha hillside woodland; the proposed woodland planting will be conducted in the proposed hillside site (~12ha) to the west of PDA. Details of woodland planting and monitoring programme will be specified in a Woodland Compensation Plan.	To adequately compensate for cumulative loss of hillside woodlands in PDA	CEDD/ Contractor	The proposed planting site (~12ha) within CA zone at the hillside site to the west of PDA	EIAO-TM	NA	NA	NA

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objective of the Recommended Measures & Main Concerns to Address	Implementation Agent	Location / Timing	Requirements and / or standards to be achieved	Imple Statu	ementati s	on
Fisheri	es						C1	C2	C3
\$9.5.2	F1	• To adopt the mitigation measures for the control of water quality impacts	To protect fisheries resources from potential direct impacts arising from deterioration of water quality	CEDD/ Contractor	All works areas	EIAO-TM	V	V	V

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objective of the Recommended Measures & Main Concerns to Address	Implementation Agent	Location / Timing	Requirements and / or standards to be achieved	Implementati Status		tion
Landscana	and Visua	(Construction Phase)	11001005				C1	C^{2}	C3
S10.12 – Table 10.12.1, CM1	LV1	 Optimisation of Construction Areas and Providing Temporary Landscape on Temporary Construction Construction areas' control shall be enforced, where possible, to ensure that the landscape and visual impacts arising from the construction activities are minimised. It includes reduction of the extent of working areas and temporary works areas, management on storing and using the construction equipment and materials, and consideration of detailed schedules to shorten the construction period. Temporary landscape treatments are considered to be adopted such as applying hydro- seeding on temporary stockpiles and reclamation areas to alleviate the potential impacts. 	Minimise impacts from construction activities on adjacent landscape and visual sensitive receivers	CEDD (via Contractor)	All construction areas an d temporary works areas		V	V	
S10.12 – Table 10.12.1, CM2	LV2	<u>Minimise Topographical Changes</u> To minimise landscape and visual impacts, the vertical and horizontal alignment of the at-grade road construction works should be optimised to reduce topographical/landform changes, as well as reduce land take and interference with natural terrain and reduce overall earth movements. Where there is a need to significantly cut into the existing landform, retaining walls should be considered as well as cut slopes, to minimise landform changes and land resumption, whilst also considering visual amenity. Earthworks and engineered slopes should be designed to provide a structurally stable and visually interesting landform, which is compatible with surrounding landscape and mimics the natural contouring and terrain (e.g. introduction and continuation of natural features such as spurs and ridges where appropriate) to support	Minimise landscape and visual impacts from topographical/ landform changes	CEDD (via Contractor)	All construction areas			N	

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objective of the Recommended Measures & Main Concerns to Address	Implementation Agent	Location / Timing	Requirements and / or standards to be achieved	Impl Statu	Implementation Status	
Landscape	and Visua	l (Construction Phase)					C1	C2	C3
		landscape and visual assimilation with the surrounding terrain.							
S10.12 – Table 10.12.1, CM3	LV3	Existing trees to be retained within the Project Site should be carefully protected during construction. Detailed Tree Protection Specification shall be provided in the Contract Specification. Under this specification, the Contractor shall be required to submit, for approval, a detailed working method statement for the protection of trees prior to undertaking any works adjacent to all retained trees, including trees in contractor's works areas. A detailed tree survey will be carried out for the Tree Removal Application (TRA) process which will be carried out at the later detailed design stage of the Project. The detailed tree survey will propose which trees should be retained, transplanted or felled and will include details of tree protection measures for those trees to be retained		Contractor)		 DEVB TCW No.7/2015; ETWB TCW No.29/2004 	~	V	V
S10.12 – Table 10.12.1, CM4	LV4	<u>Transplanting of Existing Trees</u> Trees unavoidably affected by the Project works should be transplanted where practical. Trees should be transplanted straight to their final receptor site and not held in a temporary nursery as far as possible. A detailed transplanting proposal will be submitted to relevant government departments for approval in accordance with DEVB TCW No.6/2015 and DEVB TCW 7/2015 and final locations of transplanted trees should be agreed prior to commencement of the work. For trees associated with highways e.g. roadside planting along highways, that are unavoidably affected	Transplant Trees where suitable for transplantation	CEDD (via Contractor)	On site where possible	 DEVB TCW No.6/2015; DEVB TCW 7/2015; HyD Guidelines HQ/GN/13 		V	V

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objective of the Recommended Measures & Main Concerns to Address	Implementation Agent	Location / Timing	Requirements and / or standards to be achieved	Implementation Status		
Landscape	and Visua	l (Construction Phase)	11001055				C1	C2	C3
		and should be transplanted, following HyD Guidelines HQ/GN/13 'Interim Guidelines for Tree Transplanting Works under Highways Department's Vegetation Maintenance Ambit'.							
S10.12 – Table 10.12.1, CM5	LV5	<u>Screen Hoarding</u> Screen hoarding shall be erected along areas of the construction boundary where the works site borders with publicly accessible routes and/or is close to visually sensitive receivers (VSRs), to screen undesirable views of the works site. It is proposed that the screening be compatible with the surrounding environment in terms of material choice and colour.	Screen undesirable views of the construction sites	CEDD (via Contractor)	All construction areas an d temporary works areas		1	√ 	1
S10.12 – Table 10.12.1, CM6	LVO	Watercourses of higher ecological value/ ChannelsProtectionFor all the watercourses of higher ecological valueinside the development area, in accordance with ETWBTCW 5/2005, consideration of protection measuresshould be made to minimise any impacts from theconstruction works. Precast structures or other similarapproaches will be used to prevent any constructionworks in river and thus to avoid any direct water qualityimpact. Good site management as stipulated inProPECC PN1/94 will be fully implemented to avoidpolluted liquid or solid wastes from falling into the riverwaters.	watercourses	Centractor)	All watercourses of higher ecological value inside the development area	 ETWB TCW 5/2005; ProPECC PN1/94 	V	v	
S10.12 – Table 10.12.1,	LV7	Construction Light Control All security floodlights for construction sites should be carefully controlled to minimise light pollution and	Minimise impact of night- time lighting and glare	CEDD (via Contractor)	All construction areas and		V	\checkmark	\checkmark

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objective of the Recommended Measures & Main Concerns to Address	Implementation Agent	Location / Timing	Requirements and / or standards to be achieved	Implementation Status		
Landscape and Visual (Construction Phase)						C1	C2	C3	
CM7		night- time glare to nearby users.			temporary works areas				
S10.12 – Table 10.12.1, CM8	LV8	<u>Woodland Conservation</u> Woodland conservation is proposed to avoid large scale of potential loss of the existing secondary woodland within the PDA	Avoid the loss of natural woodland areas	CEDD (via Contractor)	On site	 DEVB TCW No.7/2015; ETWB TCW No.29/2004 	NA	NA	NA

EIA	EM&A	Recommended Mitigation Measures	Objective of the	Implementation	Location /	Requirements and	Implementatio		ion
Ref.	Log		Recommended Measures	Agent	Timing	/ or standards to	Status		
	Kei		Address			be acmeved			
Waste M	anagement	(Construction Waste)			1		C1	C2	C3
S11.2.7	WM1	 Comments on C&DMMP given by PFC To ensure good quality rock is put to full use. Where necessary, the Project Proponent should consult the Mines Division, GEO for advice on the appropriate arrangement to put to full use the good quality rock. The Project Proponent should also maintain close liaison with the quarry operators for the necessary disposal arrangements; To on-site reuse all surplus inert C&D hard material generated within the Project for balanced cut-and-fill designs. The Project Proponent is reminded that surplus fill might be generated by others in the subsequent building development works within the Project's area. The detailed site formation design should reserve sufficient capacity to absorb all such fill materials so that no disposal would be required outside the Project Proponent should carry out onsite temporary storage. Where necessary, the Project Proponent shall ensure suitable environmental mitigation measures such as provision of covers ad water spraying system are duly implemented. The Project Proponent shall also carry out necessary measures to ensure the stability of the temporary stockpiles; To adopt in-situ remedial measures for the contaminated soil in accordance with the EPD's Practice Guide for Investigation and Remediation of 	Enhance the management of C&D materials and to minimize their generation at source	Contractor	All construction sites	Section 4.1.3 of the Project Administrative Handbook for Civil Engineering Works (2014 Edition)			

EIA	EM&A	Recommended Mitigation Measures	Objective of the	Implementation	Location /	Requirements and	Imple	ion	
Kel.	Ref		& Main Concerns to	Agent	Timing	be achieved	Statt		
			Address						C 2
Waste M	anagement	(Construction Waste)	1				CI	C2	C3
		Contaminated Land. The remedial soil shall be completely reused within the development site;							
		• To set up effective control procedures to ensure the traceability of disposal and reuse of the C&D materials; and							
		• To adopt re-usable non-timber formwork and precast concrete construction as far as practicable.					,		
S11.5.1	WM2	Good Site Practices	Minimise waste Generation during construction	Contractor	All construction sites	Waste Disposal Ordinance	V		\checkmark
		The following good site practices are recommended throughout the construction activities:							
		• nomination of an approved personnel, such as a site manager, to be responsible for the implementation of good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site;							
		 training of site personnel in site cleanliness, appropriate waste management procedures and concepts of waste reduction, reuse and recycling; 							
		 provision of sufficient waste disposal points and regular collection for disposal; 							
		 appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers; 							
		 regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors; 							

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objective of the Recommended Measures & Main Concerns to Address	Implementation Agent	Location / Timing	Requirements and / or standards to be achieved	Implementation Status		
Waste M	anagement	(Construction Waste)	1 waress				C1	C2	C3
		a Waste Management Plan (WMP) should be prepared by the contractor and submitted to the Engineer for approval.							
S11.5.1	WM3	 Waste Reduction Measures Waste reduction is best achieved at the planning and design phase, as well as by ensuring the implementation of good site practices. The following recommendations are proposed to achieve reduction: segregate and store different types of waste in different containers, skip or stockpiles to enhance reuse or recycling of materials and their proper disposal; proper storage and site practices to minimise the potential for damage and contamination of construction materials; plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste; sort out demolition debris and excavated materials from demolition works to recover reusable/recyclable portions (i.e. soil, broken concrete, metal etc.); and provide training to workers on the importance of appropriate waste management procedures, including waste reduction, reuse and recycling. 	Reduce waste generation	Contractor	All construction sites	Waste Disposal Ordinance		\checkmark	
S11.5.1	WM4	Storage, Collection and Transportation of Waste The following recommendation should be implemented to minimise the impacts:	Good site practice to minimise the waste generation and recycle the	Contractor	All construction sites	• Land (Miscellaneous Provisions)			
EIA Ref.	EM&A Log	Recommended Mitigation Measures	Objective of the Recommended Measures	Implementation Agent	Location / Timing	Requirements and / or standards to	Impl State	Implementation Status	
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	Ref		& Main Concerns to Address	8	8	be achieved			
Waste M	lanagement	(Construction Waste)	1 uur ess				C1	C2	C3
		 waste such as soil should be handled and stored well to ensure secure containment; and depends on actual site activities, certain locations within the site area would be used for storage of waste to enhance reuse. However, there would not be any designated location for storage of waste, and the storage locations would need to be adjusted to suite actual site conditions. 	C&D materials as far as practicable so as to reduce the amount for final disposal			Ordinance • Waste Disposal Ordinance ETWBTCW No. 19/2005			
\$11.5.1	WM5	Excavated Sediment The anticipated minor amount excavated sediment is proposed to be stabilised / solidified by mixing with cement so that the mixture is suitable to be reused on- site as backfill in construction of road base.	Handle excavated sediment	Contractor	All construction sites where applicable	ETWB-TCW 34/2002	V	V	V
\$11.5.1	WM6	 <u>Collection and Transportation of Waste</u> The following recommendation should be implemented to minimise the impacts: waste such as soil should be handled and stored well to ensure secure containment; stockpiling area should be provided with covers and water spraying system to prevent materials from wind- blown or being washed away; and different locations should be designated to stockpile each material to enhance reuse. 	Minimise waste impacts from storage	Contractor	All construction sites	Waste Disposal Ordinance	V	V	V
\$11.5.1	WM7	Site Formation and C&D Materials Wherever practicable, C&D materials should be segregated from other wastes to avoid contamination and ensure acceptability at public fill reception facilities or reclamation sites. The following mitigation measures should be implemented in handling the excavated and	Minimise waste impacts from excavated and C&D materials	Contractor	All construction	 Land (Miscellaneous Provisions) Ordinance Waste Disposal 			

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objective of the Recommended Measures & Main Concerns to Address	Implementation Agent	Location / Timing	Requirements and / or standards to be achieved	Impl Statu	ementati 15	ion
Waste M	lanagement	t (Construction Waste)		1			C1	C2	C3
		 C&D materials: maintain temporary stockpiles and reuse excavated fill material for backfilling; carry out on-site sorting; make provisions in the Contract documents to allow and promote the use of recycled aggregates where appropriate; and implement a trip-ticket system for each works contract to ensure that the disposal of C&D materials are properties of the desired and product and product and protect and protect				Ordinance • ETWB TCW No. 19/2005 • Project Administrative Handbook for Civil Engineering Works, 2012 Edition			
S11.5.1	WM8	Chemical Waste If chemical wastes are produced at the construction site, the Contractors should register with EPD as chemical waste producer. Chemical wastes should be stored in appropriate containers and collected by a licensed chemical waste collector. 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.	Control the chemical waste and ensure proper storage, handling and disposal.	Contractor	All construction sites	 Waste Disposal (Chemical Waste) General) Regulation Code of Practice on the Packaging, Labelling and Storage of Chemical Waste 	V	V	V
S11.5.1	WM9	 <u>Asbestos Containing Materials</u> Some key precautionary measures related to the handling and disposal of asbestos are listed as below. Adoption of protection, such as full containment, mini containment, or segregation of work area; Provision of decontamination facilities for cleaning of workings, equipment and bagged 	Precautionary measures to handle and disposal of asbestos	Contractor	All construction sites	Handling of Asbestos Containing Materials in Buildings (ProPECC PN 2/97)	V	V	V

EIA	EM&A	Recommended Mitigation Measures	Objective of the	Implementation	Location /	Requirements and	Implementati		on
Ref.	Log		Recommended Measures	Agent	Timing	/ or standards to	Statu	S	
	Kei		& Main Concerns to Address			be achieved			
Waste M	anagement	(Construction Waste)		1	1		C1	C2	C3
		waste before leaving the work area;							
		• Adoption of engineering control techniques to prevent fibre release from work area, such as use of negative pressure equipment with high efficiency particulate air (HEPA) filters to control air flow between the work area and the outside environment;							
		• Wetting of asbestos containing materials before and during disturbance, minimizing the breakage and dropping of asbestos containing materials, and packing of debris and waste immediately after it is produced;							
		 Cleaning of work area by wet wiping and vacuuming with HEPA filtered vacuum cleaner; 							
		• Coating on any surfaces previously in contact with or contained by asbestos with a sealant;							
		 Proper bagging, safe storage and disposal of asbestos and asbestos contaminated waste; 							
		• Pre-treatment of all effluent from the work area before discharged; and							
		• Air monitoring strategy to check the leakage and clearance of the work area during and after the asbestos work.							
<u>S11.5.1</u>	WM10	 <u>General Refuse</u> General refuse should be stored in enclosed bins separately from construction and chemical wastes. Recycling bins should also be placed to encourage 	Minimise production of the general refuse and avoid odour, pest and litter impacts	Contractor	All construction sites	Waste Disposal Ordinance			$\overline{\mathbf{A}}$

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Waste M	anagement	(Construction Waste)					C1	C2	C3
		 recycling. Preferably enclosed and covered areas should be provided for general refuse collection and routine cleaning for these areas should also be implemented to keep areas clean. 							
		 A reputable waste collector should be employed to remove general refuse on a daily basis. 							

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objective of the Recommended Measures & Main Concerns to Address	Implementation Agent	Location / Timing	Requirements and / or standards to be achieved	Impl Statu	Implementation Status		
Land	ontaminat	ion	Address				C1	C^{2}	C3	
Land C S12.6	ontaminati	• Undertaking environmental Site Inspection (SI) for all potentially contaminated sites as listed in the Contamination Assessment Plan (CAP).	Verify the land contamination potential before the commencement of construction	Project Proponent / Detailed Design Consultant / Private developer	All potentially contaminate d sites as listed in the CAP	 Annex 19 of the EIAO-TM, Guidelines for Assessment of Impact On Sites of Cultural Heritage and Other Impacts (Section 3: Potential Contaminated Land Issues); Guidance Manual for Use of Risk- Based Remediation Goals (RBRGs) for Contaminated Land Management; Guidance Notes for Contaminated Land Assessment and Remediation; and Practice Guide for Investigation 		<u>C2</u> √		

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objective of the Recommended Measures & Main Concerns to	Implementation Agent	Location / Timing	Requirements and / or standards to be achieved	Impl Statı	tion	
		-	Address					~	
						Remediation of Contaminated Land			
						• Recommendation s in Health Risk Assessment			
S12.7	LC2	Re-appraisal would be required for the 'potentially contaminated landuses', 'industrial site with no potential for land contamination' and 'Non-Industrial landuses' within the land contamination assessment area as the development of these sites/ areas would only commence a number of years later, which may allow changes in the land usage of these sites and may give rise to potential land contamination issues. The Project Proponent's appointed consultant would prepare a supplementary CAP presenting the findings of the re- appraisal and strategy of the recommended SI, if required, and submit to EPD for review and approval.	To assess the latest site situation and identify any potential additional hot spots and contaminated sites.	Project Proponent / Detailed Design Consultant / Private developer	Al the surveyed sites as listed in the CAP, other remaining areas of the PDAs and works areas for the associated infrastructures	Ditto	V	V	V
\$12.7	LC3	After approval of the supplementary CAP and upon completion of the SI works, the Project Proponent should prepare and submit a supplementary Contamination Assessment Report (CAR) for all potentially contaminated sites listed in the CAP to EPD for agreement.	Present the findings of SI and evaluate the level and extent of potential contamination	Project Proponent / Detailed Design Consultant / Private developer	All the surveyed sites as listed in the CAP, other remaining areas of the PDAs and works areas for the associated infrastructures	Ditto	\checkmark	V	~

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Land C	Contaminat	ion					C1	C2	C3	
S.12.8	LC4	Preparation and submission of Remediation Action Plan (RAP) to EPD for agreement if land contamination is confirmed.	Recommend appropriate mitigation measures for the contaminated soil and groundwat er identified in the assessment if remediation is required	Project Proponent / Detailed Design Consultant / Private developer	All the surveyed sites as listed in the CAP, other remaining areas of the PDAs and works areas for the associated infrastructures	Ditto	NA	NA	NA	
S.12.8	LC5	Preparation and submission of Remediation Report (RR) to EPD for agreement.	Demonstrate that the decontamination work is adequate and is carried out in accordance with the endorsed CAR and RAP	Project Proponent / Detailed Design Consultant / Private developer	All the surveyed sites as listed in the CAP, other remaining areas of the PDAs and works areas for the associated infrastructures		NA	NA	NA	

EIA Ref.	EM&A Log	Recommended Mitigation Measures	Objective of the Recommended Measures	Implementation Agent	Location / Timing	Requirements and / or standards to	Impl Stati	ementat 18	tion
	Ref		& Main Concerns to	8		be achieved	~		
Cultur	l Horitago	Impact (Construction and Operational Phase)	Address				C1	C^{2}	C3
S.13.7	CH1	 Further archaeological surveys will be conducted upon land resumption prior to the commencement of any construction works within areas of moderate archaeological potential at three locations: area near Tin Shui Wai West Interchange, area near Tong Yan San Tsuen and area near Shan Ha Tsuen. The scope and programme of the proposed archaeological work shall be agreed with AMO. Subject to the findings of the archaeological work, appropriate mitigation measures would be proposed by the project proponent in prior agreement with AMO. For the areas with low-moderate archaeological potential, AMO should be informed immediately in case of discovery of antiquities or supposed antiquities in the course of the construction works. Agreement from AMO would be sought on the follow-up actions if required 	To assess further archaeological potential and development impacts on private land for the purpose of protecting and managing cult ural heritage. Control EM&A Performance.	Project Proponent	Area near Tin Shui Wai West Interchange, area near Tong Yan San Tsuen and area near Shan Ha Tsuen to be surveyed upon land resumption and prior to construction	AMO Ordinance (Cap 53) Guidance notes on assessment of impact on sites of CH in EIA studies. EIAO (Cap 499). EIAO-TM Annexes 10 and 19. HKPSG. Guidelines for Cultural Heritage Impact Assessment	NA	NA	NA
S.13.7	CH2	• The Grade 3 historic building of Yeung Hau temple at Tong Yan San Tsuen should be preserved via a 5m non- construction buffer with screening to prevent visitor and worker access and minimise dust during the construction phase. A site audit should be conducted at 6 month intervals during the construction phase to monitor potential direct impacts as well as indirect impacts from noise, dust, visual and vibration effects from adjacent construction works.	Protect and manage cultural heritage. To assess further heritage impacts for the purpose of protecting built heritage and mitigating development impacts.	Project Proponent	Yeung Hau Temple (Tong Yan San Tsuen), Tang Ancestral Hall (Ha Tsuen) and 33 graves located within 100m		NA	NA	NA

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objective of the Recommended Measures & Main Concerns to	Implementation Agent	Location / Timing	Requirements and / or standards to be achieved	Imple Statu	Implementation Status	
			Address						
Cultura	al Heritage	Impact (Construction and Operational Phase)					C1	C2	C3
		 Built heritage in forms of temples, ancestral halls and buildings throughout the area also offers the opportunity for incorporation of historic buildings into heritage trails or visitor areas. The planned sewer works to the north-west of the PDA near Ha Tsuen Shi are expected to impact a narrow disturbed footprint along Tin Ha Road south of the village. The impact of these works on the declared monument, i.e. Tang Ancestral Hall locates 90m away, are expected to be nil. Thus no mitigation measures are needed. A total of 33 graves, which none of these graves yielded dates older than 100 years (no earlier than 1930), were recorded within the 100m assessment area. The potential management measures on these graves are either retain or relocate within the development. 	Control EM&A Performance.		assessment (A 5m non- construction buffer and a 6- month- interval site audit to Yeung Hau Temple will be applied during construction. A further study to design heritage trails or visitor Areas incorporating heritage buildings in the area is recommended to be conducted during detailed design stage. Once the idea of heritage trails is pursued, the implementation and anagement agencies shall				

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objective of the Recommended Measures & Main Concerns to Address	Implementation Agent	Location / Timing	Requirements and / or standards to be achieved	Implementation Status		
Culture	al Heritage	Impact (Construction and Operational Phase)			·	÷	C1	C2	C3
					also be identified before operation. Some of the 33 graves within 100m buffer could potentially be negotiated to relocate before the construction stage)				

EIA Ref.	EM&A Log Ref	Recommended Mitigation Measures	Objective of the Recommended Measures & Main Concerns to Address	Implementation Agent	Location / Timing	Requirements and / or standards to be achieved	Imple Statu	Implementation Status		
EM&A	Project						C1	C2	C3	
S14.2	EM1	 An Independent Environmental Checker needs to be employed as per the EM&A Manual. 	Control EM&A Performance	Project Proponent	All constructi on sites	• EIA Ordinance Guidance Note No.4/2010 EIAO-TM	\checkmark		\checkmark	
S14.2 -14.4	EM2	 An Environmental Team needs to be employed as per the EM&A Manual. Prepare a systematic Environmental Management Plan to ensure effective implementation of the mitigation measures. An environmental impact monitoring needs to be implementing by the Environmental Team to ensure all the requirements given in the EM&A Manual are fully complied with. 	Perform environmental monitoring & auditing	Project Proponent	All constructi on sites	• EIA Ordinance Guidance Note No.4/2010 EIAO-TM	V	V	V	