

Civil Engineering and Development Department

**Service Contract No. WD/09/2022
Environmental Team for
Site Formation and Infrastructure Works
for Public Housing Developments
at Kam Tin South, Yuen Long – Phase 1**

Monthly EM&A Report
October 2023
(version 1.0)

Certified By



(Environmental Team Leader:
Ms. Betty Choi)

REMARKS:

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

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

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Our ref.: LES/J2022-08/CS/L039
Date : 28 November 2023

By Email

Civil Engineering and Development Department
West Development Office
9/F, Sha Tin Government Office,
1 Sheung Wo Che Road, Sha Tin
New Territories, Hong Kong

Attn.: Mr Kenny Kwok

Dear Kenny,

Agreement No. WD/08/2022
Independent Environmental Checker for Site Formation and Infrastructure Works for
Public Housing Developments at Kam Tin South, Yuen Long – Phase 1
Monthly Environmental Monitoring and Audit (EM&A) Report for October 2023

Pursuant to Clause 6.3 (ix) of Brief for the captioned Agreement, we hereby, in the capacity of the Independent Environmental Checker specified in the Detailed Proposal on Mitigation Measures and EM&A Programme pursuant to Condition 2.1 of FEP-01/195/2004/A (*the Proposal*), verify the monthly EM&A report for October 2023 (Version 1.0) prepared and certified by the Environmental Team (ET) Leader on 27 November 2023 for onward submission.

The ET Leader is reminded that it is the ET's responsibility to ensure the captioned report be timely submitted to the Director of Environmental Protection in accordance with Section 3.6.3.1 of *the Proposal* (i.e. by 14 November 2023).

Should you have any queries, please contact the undersigned at 2839 5666.

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

Raymond Dai
Independent Environmental Checker

AECOM (Attn.: Mr Alfred Cheng)
Cinotech (Attn.: Ms Betty Choi)
SKJV (Attn.: Mr Alex Po)

By E-mail
By E-mail
By E-mail

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EXECUTIVE SUMMARY

Introduction

1. This is the 8th Monthly Environmental Monitoring and Audit (EM&A) Report prepared by Cinotech Consultants Ltd. under Service Contract No. WD/09/2022 “Environmental Team for Site Formation and Infrastructure Works for Public Housing Developments at Kam Tin South, Yuen Long – Phase 1” (hereinafter called “the Project”. This report documents the findings of EM&A Works conducted in October 2023 in accordance with the requirement specified in the Detailed Proposal on the Mitigation Measures and Environmental Monitoring and Audit Programme (the EM&A Proposal).
2. No major site activities were conducted in the reporting month.

Environmental Monitoring Works

3. Environmental monitoring for the Project had been performed in accordance with the EM&A Proposal and the monitoring results were checked and reviewed. Site Inspections/Audits shall be conducted once per week during dry season (i.e. November to March) and once per month during the in-between wet season (i.e. April to October). The implementation of the environmental mitigation measures, Event Action Plans and environmental complaint handling procedures, including the item responsible by Environment Team, were also checked.
4. According to the Detailed Proposal on the Mitigation Measures and Environmental Monitoring and Audit Programme, no water monitoring work is required during the wet season (i.e. April to October), landscape monitoring work is carried out on a monthly basis.

Landscape and Visual Monitoring and Audit

5. The implementation of landscape and visual mitigation measures was checked during the environmental site inspections. Details of the audit findings and implementation status are presented in **Section 7**.

Key Information in the Reporting Month

6. Summary of Complaint, changes, as well as notification of any summons and successful prosecution in the reporting month is tabulated in **Table I**.

Table I Summary Table for Key Information in the Reporting Month

Event	Event Details		Action Taken	Status	Remark
	Number	Nature			
Complaint received	0	---	N/A	N/A	---

Event	Event Details		Action Taken	Status	Remark
	Number	Nature			
Reporting Changes	1	Construction location of an existing outfall was changed	The figures in the EM&A proposal, previous monthly report have been updated	Figures updated	After reviewing the landscape & visual monitoring works, the landscape resource (LR2 & LR3) surrounding the shifted outfall can be covered by the view of the current L&V monitoring point P01 without blockage. Therefore, the L&V monitoring work is considered as remain unchanged.
Notifications of any summons & prosecutions received	0	---	N/A	N/A	---

7. Licenses/Permits granted to the Project include:

- Environmental Permits (EP) for the Project – FEP-01/195/2004/A issued on 7 December 2017.
- Wastewater Discharge License (No.: WT00044446-2023 [Site 1], No.: WT00044173-2023 [Site 4a-1])
- Billing Account for Construction Waste Disposal (A/C No.7041042)
- Registration of Chemical Waste Producer (No.: WPN-5213-513-S4400-01)

Future Key Issue

8. Construction / modification works of the outfalls is proposed to be resumed in the following month (November 2023), thus environmental concern arising from the Project is anticipated in the next reporting month.
9. The future key environmental issues in November 2023 include:
- Wastewater and run-off generation on-site;
 - Water spraying for dust generating activities and on haul road;
 - Storage of chemicals/fuel and chemical waste/waste oil on-site; and
 - Accumulation of general refuse and construction waste on-site.

INTRODUCTION

1.1 Background

- 1.1.1 As part of the infrastructural works proposed by Civil Engineering and Development Department (CEDD) under Agreement No. CE 34/2014(CE) for new public housing developments at Kam Tin South (the Project), the construction of proposed drainage system under this Project will involve the construction of additional outfalls and modification of existing outfalls at Kam Tin River.
- 1.1.2 An Environmental Impact Assessment (EIA) Report for Main Drainage Channels for Ngau Tam Mei, Yuen Long and Kam Tin was approved prior to implementation of EIA Ordinance, with the Environmental Permit No. FEP-01/195/2004/A (the EP) currently held by CEDD for the Project.
- 1.1.3 According to Condition 2.1 of the EP, the Permit Holder shall, no later than three months before the commencement of the modification works, submit for approval by the Director of the Environment Protection a Detailed Proposal on the Mitigation Measures and Environmental Monitoring and Audit Programme (the EM&A Proposal). The EM&A Proposal (v1.1) was approved by the Environmental Protection Department (EPD) on 12 January 2023. After the commencement of the baseline monitoring works, minor update has been made to the environmental monitoring and audit (EM&A) arrangement and equipment without alternation of the EM&A programme. The latest version of the EM&A Proposal (v1.5) has been drafted and submitted to EPD in July 2023, the major update was the correction of the construction location of an existing outfall.
- 1.1.4 Cinotech Consultants Limited (Cinotech) was commissioned by CEDD as the Environmental Team (ET) to undertake environmental monitoring and auditing services for the Project to ensure that the environmental performance of the Works Contract complies with the requirements specified in the EP, EM&A Proposal, Service Specifications and Supporting Documents of the Project and other relevant statutory requirements.

1.2 The Proposed Scope of Works at Kam Tin River

- 1.2.1 Due to the changes in catchment characteristics resulted from the aforesaid housing development within the sites, the stormwater runoff collected from the catchments of the sites was expected to increase upon the completion of the new public housing developments.
- 1.2.2 To cater for the increased stormwater runoff, proposed drainage systems will be constructed, which will convey the collected stormwater runoff from the concerned catchment of new public housing developments sites to a number of additional and existing drainage outfalls along the riverbank of Kam Tin River for discharge, whereas these additional and existing drainage outfalls will be constructed/modified during dry season under the Project for providing sufficient capacities to cater for the estimated stormwater runoff. The locations of the proposed works are illustrated in **Figure 1-1**.
- 1.2.3 The proposed works of this Project are incorporated in Contract No. YL/2020/04 and the Contract commenced on 8 March 2023 and scheduled for completion in early 2025.

1.3 Purpose of the Report

1.3.1 This is the 8th Monthly EM&A Report, which summarises the impact monitoring results and audit findings during the reporting period in October 2023, in according with the requirement specified in the EM&A Proposal.

1.4 Project Organizations

1.4.1 Different Parties with different levels of involvement in the project organization include:

- Permit Holder – Civil Engineering and Development Department (CEDD)
- Project Manager or Project Manager’s Delegates – AECOM (Asia) Consultants Limited (AECOM)
- Environmental Team (ET) – Cinotech Consultants Limited (Cinotech)
- Independent Environmental Checker (IEC) – Lam Environmental Services Ltd (LES)
- Contractor – Sang Hing – Kuly Joint Venture (SKJV)

1.4.2 The key contacts of the Project are listed in table below.

Table 1-1 Key Project Contacts

Party	Role	Contact Person	Phone No.
CEDD	Permit Holder	Mr. TANG Hing Ka, Andy	2158 5641
AECOM	Project Manager or Project Manager’s Delegates	Mr. Peter Bi	5720 4718
Cinotech	Environmental Team	Ms. Betty Choi	2151 2072
		Mr. Colman Wong	2151 2068
LES	Independent Environmental Checker	Mr. Ray Yan	2882 3939
		Ms. Eunice Chui	2839 5617
SKJV	Contractor	Mr. Rio Cheng	9155 5911

1.4.3 The Organizational Structure for Environmental Management is shown in **Figure A** below.

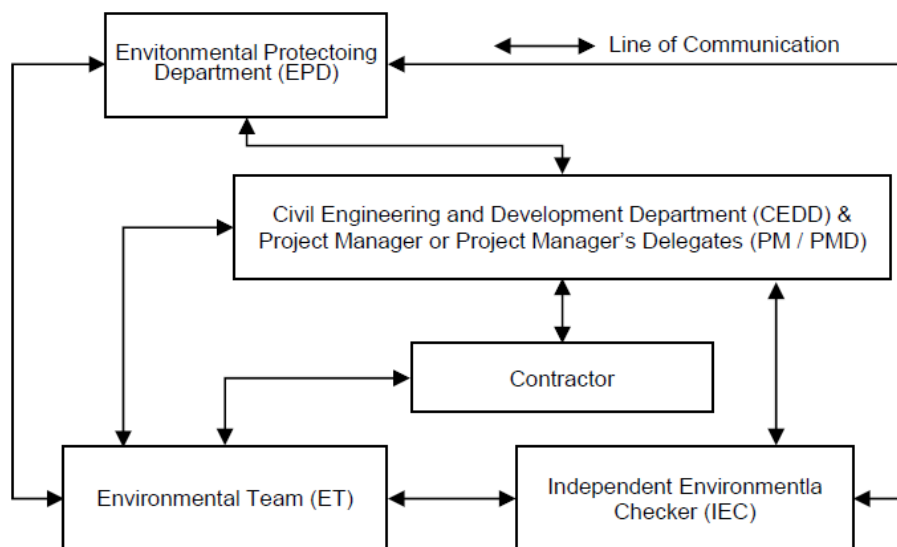


Figure A Management Structure

1.5 Construction Activities undertaken during the Reporting Month

1.5.1 No major site activities were conducted in the reporting month.

1.6 Status of Environmental Licenses and Permits

1.6.1 All relevant permits/licences obtained for this Project are summarized in **Table 1-2**.

Table 1-2 Summary of Environmental Licenses and Permits

Licenses / Permits	Valid Period		Status
	From	To	
Environmental Permit (EP)			
FEP-01/195/2004/A	07-12-2017	N/A	Valid
Billing Account for Construction Waste Disposal			
A/C No.7041042	19-07-2021	Nil	Valid
Registration of Chemical Waste Producer			
WPN-5213-531-S4400-01	12-04-2023	Nil	Valid
Wastewater Discharge License			
WT00044446-2023	16/08/2023	31/08/2028	Valid
WT00044173-2023	30/10/2023	31/10/2028	Valid
Construction Noise Permit (Use of Powered Mechanical Equipment)			
--	-	-	-

1.7 Summary of EM&A Requirements

1.7.1 The EM&A programme specified in the EM&A Proposal requires water quality monitoring, landscape & visual monitoring, environmental site audit, etc. The EM&A requirements for each parameter are described in the following sections, including:

- All monitoring parameters;
- Action and Limit levels for all environmental parameters;
- Event and Action Plans;
- Environmental mitigation measures, as recommended in the EIA Reports, Environmental Review Reports and the EM&A Proposal.

1.7.2 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in **Section 8** of this report.

1.7.3 This report presents the observations, locations, period of the audit works for the Project in October 2023.

2 WATER QUALITY

2.1 Monitoring Requirement

- 2.1.1 According to the EM&A Programme, no water quality monitoring is required during wet season (April to October).
- 2.1.2 Site audit was carried out on a monthly basis to monitor and audit the timely implementation of water quality mitigation measures within the site boundaries of this Project. The summaries of site audits are attached in **Appendix I**.

3 ECOLOGY

3.1 Monitoring Requirement

- 3.1.1 According to the EM&A Programme, no ecology monitoring is required for the Project.
- 3.1.2 Site audit was carried out on a monthly basis to monitor and audit the timely implementation of ecological mitigation measures within the site boundaries of this Project. The summaries of site audits are attached in **Appendix I**.

4 AIR QUALITY

4.1 Monitoring Requirement

- 4.1.1 According to the EM&A Programme, no air quality monitoring is required for the Project.
- 4.1.2 Site audit was carried out on a monthly basis to monitor and audit the timely implementation of air quality mitigation measures within the site boundaries of this Project. The summaries of site audits are attached in **Appendix I**.

5 NOISE

5.1 Monitoring Requirement

- 5.1.1 According to the EM&A Programme, no noise monitoring is required for the Project.
- 5.1.2 Site audit was carried out on a monthly basis to monitor and audit the timely implementation of noise mitigation measures within the site boundaries of this Project. The summaries of site audits are attached in **Appendix I**.

6 WASTE MANAGEMENT

6.1 Monitoring Requirement

- 6.1.1 According to the EM&A Programme, no monitoring for waste management is required for the Project.
- 6.1.2 Site audit was carried out on a monthly basis to monitor and audit the timely implementation of waste management mitigation measures within the site boundaries of this Project. The summaries of site audits are attached in **Appendix I**.

6.2 Status of Waste Management

- 6.2.1 No wastes by major site activities of this Project were generated during the wet season (i.e. April to October). Hence the amount of waste shown in **Appendix N** is the total amount of waste for the other sites of Contract No. YL/2020/04.

7 LANDSCAPE AND VISUAL IMPACT

7.1 Monitoring Requirement

- 7.1.1 In accordance with Section 3.3.4 of the EM&A Programme, impact monitoring shall be undertaken during construction of the construction contracts. The locations for photo-taking were agreed with CEDD.
- 7.1.2 The frequency of Landscape and Visual (L&V) Monitoring shall be carried at all designated monitoring station 1 day per week during the construction phase of the proposed works in dry season, and at least once per month during the in-between wet season. The interval between 2 sets of monitoring should not be less than 3 days during the construction phase of the proposed works in dry season.
- 7.1.3 The L&V monitoring was conducted on 19th October 2023 in the reporting month.

7.2 Locations of Sensitive Receivers and Landscape Resources

- 7.2.1 In accordance with the Supporting Document for Application for Variation of Environmental Permit (EP-195/2004 and FEP-01/195/2004) (Final), there are a 1 Key Visually Sensitive Receiver (VSR) and 2 Landscape Resources (LRs) for the Project.
- 7.2.2 The details of the VSRs and LRs are shown in **Table 7-1 & Table 7-2** (as extracted from Supporting Document for Application for Variation of Environmental Permit (EP-195/2004 and FEP-01/195/2004) (Final)), which is also shown in **Figures 7-1 to 7-3** and summaries in **Figure 7-4**.

Table 7-1 Details of Key Visual Sensitive Receiver and Landscape Resources

ID No.	Key Visual Sensitive Receivers (VSRs)
VSR1	Travelers along Kam Ho Road and Kam Po Road

Table 7-2 Details of Landscape Resources

ID No.	Landscape Resource
LR2	Existing Watercourse
LR3	Existing Vegetation on River Bank / Grasscrete on Embankment

7.3 Results and Observations

- 7.3.1 Photographs of landscape resources identified in the EM&A Programme are shown in Appendix J. It was observed that there was no blockage of view to the VSR and only minimal changes (minor removal of grass) of LR3.
- 7.3.2 Referring to the audit photos along March to October 2023, the most obvious changes were the lost vegetation (LR3) above the outfall of P05, P06 (observed since March 2023) and P10 (observed since September 2023) due to the outfall construction activities happened in March 2023.
- 7.3.3 In addition, due to the lush vegetation along the embankment on both side of the Kam Tin River, minor blockage on the photo angle was observed in this reporting month.
- 7.3.4 Drainage works from DSD was observed at P01 during the L&V monitoring, the observed works only happened at the bottom half of the slope, which should not cause any direct impact to LR3. However, since the drainage works happened near to the water course, minimal impact may be caused to LR2. In addition, minor damage of part of vegetation (circled in red at P01 in Appendix J) was observed during the L&V monitoring, it was expected to be caused by the aforementioned DSD works, thus it was defined as non-projected related since no outfall construction was conducted.
- 7.3.5 The affected vegetation near the outfalls were not yet reinstated as the Project is still in early stage. The contractor is reminded to reinstate the temporarily disturbed LRs before the end of construction phase as stated in the EM&A Programme.

8 ENVIRONMENTAL AUDIT

8.1 Site Audits

8.1.1 Site audits were carried out on a weekly basis in dry season & a monthly basis in wet season to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site. The summaries of site audits are attached in **Appendix I**.

8.1.2 Site audit was conducted on 19 October 2023 in the reporting month. IEC joint site inspection was conducted on 19 October 2023. No non-compliance was observed during the site audit.

8.2 Review of Environmental Monitoring Procedures

8.2.1 The monitoring work conducted by the monitoring team was inspected regularly. The following procedures have been recorded for the monitoring works:

Landscape and Visual

- The Landscape and Visual monitoring was conducted as scheduled in the reporting month.
- The construction location of an existing outfall was changed. After reviewing the landscape and visual monitoring works, the landscape resource (LR2 & LR3) surrounding the shifted outfall can be covered by the view of the current L&V monitoring point P01 without blockage. Therefore, landscape and visual monitoring work is considered as remain unchanged.

8.3 Implementation Status of Environmental Mitigation Measures

8.3.1 According to the Environmental Review Reports, Environmental Permits and the EM&A Proposal of the Project, the mitigation measures detailed in the documents are recommended to be implemented during the construction phase. An updated summary of the Environmental Mitigation Implementation Schedule (EMIS) is provided in **Appendix K**.

8.3.2 The ET monthly site inspection was carried out during the reporting month and the observations and recommendations are summarized in **Table 8-1**. Refer to **Appendix I** for the site inspection summary lists in the reporting month.

Table 8-1 Observations and Recommendations of Site Audit

Parameters	Date	Observations and Recommendations	Follow-up
Water Quality	N/A	No environmental deficiency was identified in the reporting period.	N/A
Air Quality	N/A	No environmental deficiency was identified in the reporting period.	N/A
Noise	N/A	No environmental deficiency was identified in the reporting period.	N/A

Parameters	Date	Observations and Recommendations	Follow-up
Waste / Chemical Management	N/A	No environmental deficiency was identified in the reporting period.	N/A
Landscape and Visual	N/A	No environmental deficiency was identified in the reporting period.	N/A
Permits/ Licenses	20 April 2023 (Follow-up items)	Wastewater discharge licence for the nearest discharge location (Site 1) is not available.	The application for wastewater discharge licence of Site 1 (No.: WT00044446-2023) and Site 4a-1 (No.: WT00044173-2023) were approved by EPD.

8.4 Implementation Status of Event and Action Plans

8.4.1 The Event and Action Plan for water quality is presented in **Appendix L**.

9 ENVIRONMENTAL NON-CONFORMANCE

9.1 Summary of Complaint, Warning, Notification of any Summons and Successful Prosecution

9.1.1 The summaries of environmental complaint, warning, summon and notification of successful prosecution for the Project is presented in **Appendix M**.

10 FUTURE KEY ISSUE

10.1 Major Site Activities and Key Environmental Issues in the Coming Months

10.1.1 The construction / modification works of the outfalls can be carried out in dry season (i.e.: November to March) only. According to the Contractor, construction works is proposed to be resumed in the following month (November 2023), thus environmental concern arising from the Project is anticipated in the next reporting month.

10.1.2 Key environmental issues in the coming month (November 2023) include:

- Wastewater and run-off generation on-site;
- Water spraying for dust generating activities and on haul road;
- Storage of chemicals/fuel and chemical waste/waste oil on-site; and
- Accumulation of general refuse and construction waste on-site.

10.2 Monitoring Schedule for the Next Month

10.2.1 The tentative environmental monitoring schedule for the next month is shown in **Appendix C**.

11 CONCLUSIONS AND RECOMMENDATIONS

11.1 Conclusions

11.1.1 Environmental monitoring works were performed in the reporting month and all monitoring results were checked and reviewed.

Landscape and Visual Monitoring

11.1.2 It was observed that there was no blockage of view to the VSR and only minimal changes (minor removal of grass) of LR3.

11.1.3 Referring to the audit photos along March to October 2023, the most obvious changes were the lost vegetation (LR3) above the outfall of P05, P06 (observed since March 2023) and P10 (observed since September 2023) due to the outfall construction activities happened in March 2023.

11.1.4 In addition, due to the lush vegetation along the embankment on both side of the Kam Tin River, minor blockage on the photo angle was observed in this reporting month.

11.1.5 Drainage works from DSD was observed at P01 during the L&V monitoring, the observed works only happened at the bottom half of the slope, which should not cause any direct impact to LR3. However, since the drainage works happened near to the water course, minimal impact may be caused to LR2. In addition, minor damage of part of vegetation (circled in red at P01 in Appendix J) was observed during the L&V monitoring, it was expected to be caused by the aforementioned DSD works, thus it was defined as non-projected related since no outfall construction was conducted.

11.1.6 The affected vegetation near the outfalls were not yet reinstated as the Project is still in early stage. The contractor is reminded to reinstate the temporarily disturbed LRs before the end of construction phase as stated in the EM&A Programme.

11.1.7 The construction location of an existing outfall was changed. After reviewing the landscape and visual monitoring works, the landscape resource (LR2 & LR3) surrounding the shifted outfall can be covered by the view of the current L&V monitoring point P01 without blockage. Therefore, landscape and visual monitoring work is considered as remain unchanged.

Site Audit

11.1.8 One (1) ET joint monthly environmental site inspections was conducted in the reporting month.

Complaint and Prosecution

11.1.9 No environmental complaints and environmental prosecution were received in the reporting month.

11.2 Recommendations

11.2.1 According to the environmental audit in the reporting month (October 2023) as well as the previous month (March to September 2023), the following recommendations were made which shall be implemented when the construction works to be resumed in November 2023.

Water Quality

- Exposed slope should be covered by tarpaulin.
- All outfall construction and modification area should be fully enclosed by double layer bund comprising of concrete bund, impermeable sheet pile and sand bags along construction period.
- Wastewater should be treated by sediment tank to the criteria of the water discharge license, before being discharged to the specific discharge point in the discharge license.

Waste/ Chemical Management

- General refuse near outfall should be disposed properly.

Landscape and Visual

- To reinstate all landscape areas disturbed temporarily during working period on like to-like basis or for better quality.

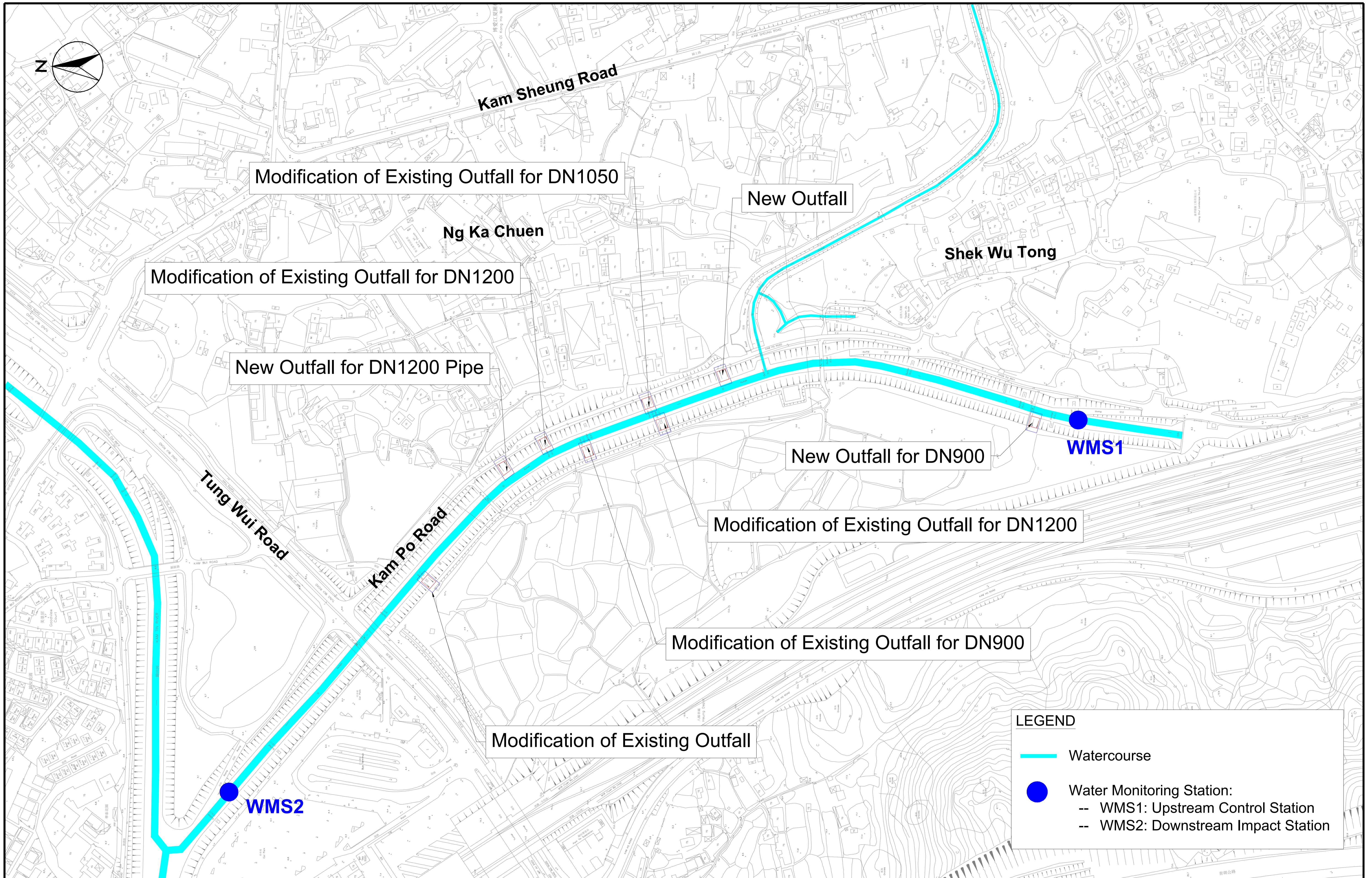
Permits/ Licenses

- The wastewater discharge license should be available before the commencement of construction works in the next dry season (November 2023 to March 2024) for inspection.

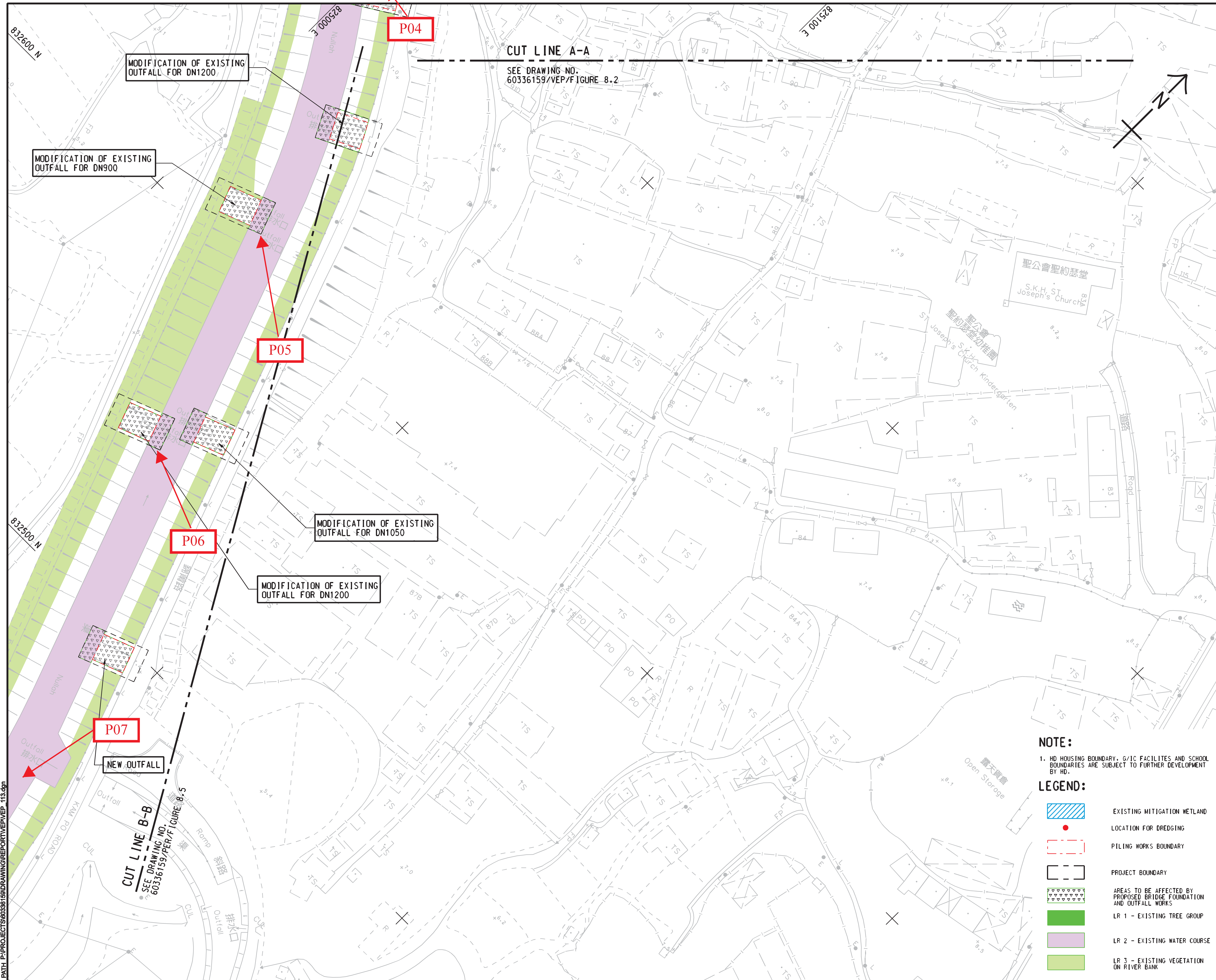
Review of Environmental Monitoring

- The number and location of monitoring stations and the monitoring parameters have been reviewed every six months according to S.3.6.3.3 of the Detailed Proposal on Mitigation Measures and EM&A Programme. No updates are required as no major changes in the surrounding environment as well as the nature of works in progress.

FIGURES



SCALE	1:3000@A3	DATE	Jun 2023
CHECK	CC	DRAWN	WY
JOB No.	MA22199	DRAWING No.	2-1
		REV	-



MODIFICATION OF EXISTING OUTFALL FOR DN1200

MODIFICATION OF EXISTING OUTFALL FOR DN900

P05

MODIFICATION OF EXISTING OUTFALL FOR DN1050

P06

MODIFICATION OF EXISTING OUTFALL FOR DN1200

P07

NEW OUTFALL

CUT LINE A-A









SEE DRAWING NO. 60336159/VEP/FIGURE 8.2

CUT LINE B-B
 SEE DRAWING NO. 60336159/VEP/FIGURE 8.5

NOTE:

1. HD HOUSING BOUNDARY, G/IC FACILITIES AND SCHOOL BOUNDARIES ARE SUBJECT TO FURTHER DEVELOPMENT BY HD.

LEGEND:

-  EXISTING MITIGATION WETLAND
-  LOCATION FOR DREDGING
-  PILING WORKS BOUNDARY
-  PROJECT BOUNDARY
-  AREAS TO BE AFFECTED BY PROPOSED BRIDGE FOUNDATION AND OUTFALL WORKS
-  LR 1 - EXISTING TREE GROUP
-  LR 2 - EXISTING WATER COURSE
-  LR 3 - EXISTING VEGETATION ON RIVER BANK

ISSUE/REVISION

IR/ 修訂	DATE 日期	DESCRIPTION 內容摘要	CHK. 審核

STATUS

階段

SCALE

比例

A1 1:500

DIMENSION UNIT

尺寸單位

METRES

KEY PLAN

索引圖 A1 1:60000

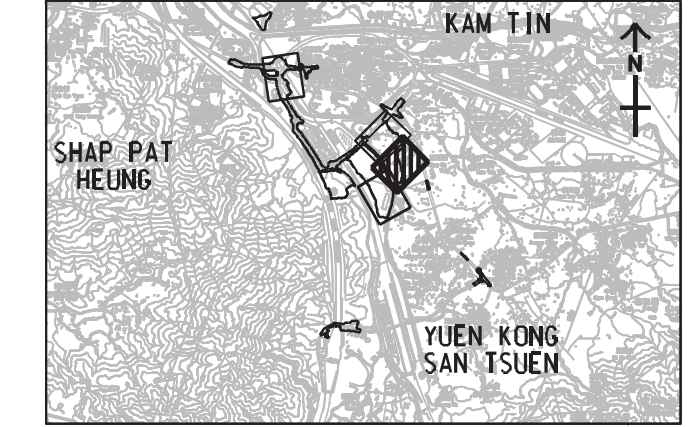


Figure 7-2

Baseline Landscape Resources & Monitoring Locations (2)

ISO A1 594mm x 841mm
Approved:
Checked:
Designer:
Project Management Initials:

CUT LINE B-B
SEE DRAWING NO. 60336159/PER/FIGURE 8.4

NOTE:
1. HD HOUSING BOUNDARY, G/I/C FACILITIES AND SCHOOL BOUNDARIES ARE SUBJECT TO FURTHER DEVELOPMENT BY HD.

- LEGEND:
- EXISTING MITIGATION WETLAND
 - LOCATION FOR DREDGING
 - PILING WORKS BOUNDARY
 - PROJECT BOUNDARY
 - AREAS TO BE AFFECTED BY PROPOSED BRIDGE FOUNDATION AND OUTFALL WORKS
 - LR 1 - EXISTING TREE GROUP
 - LR 2 - EXISTING WATER COURSE
 - LR 3 - EXISTING VEGETATION ON RIVER BANK

AECOM

PROJECT
VEP OF EP195/2004

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

CONSULTANT
AECOM Asia Company Ltd.
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SUB-CONSULTANTS
分列工程師有限公司

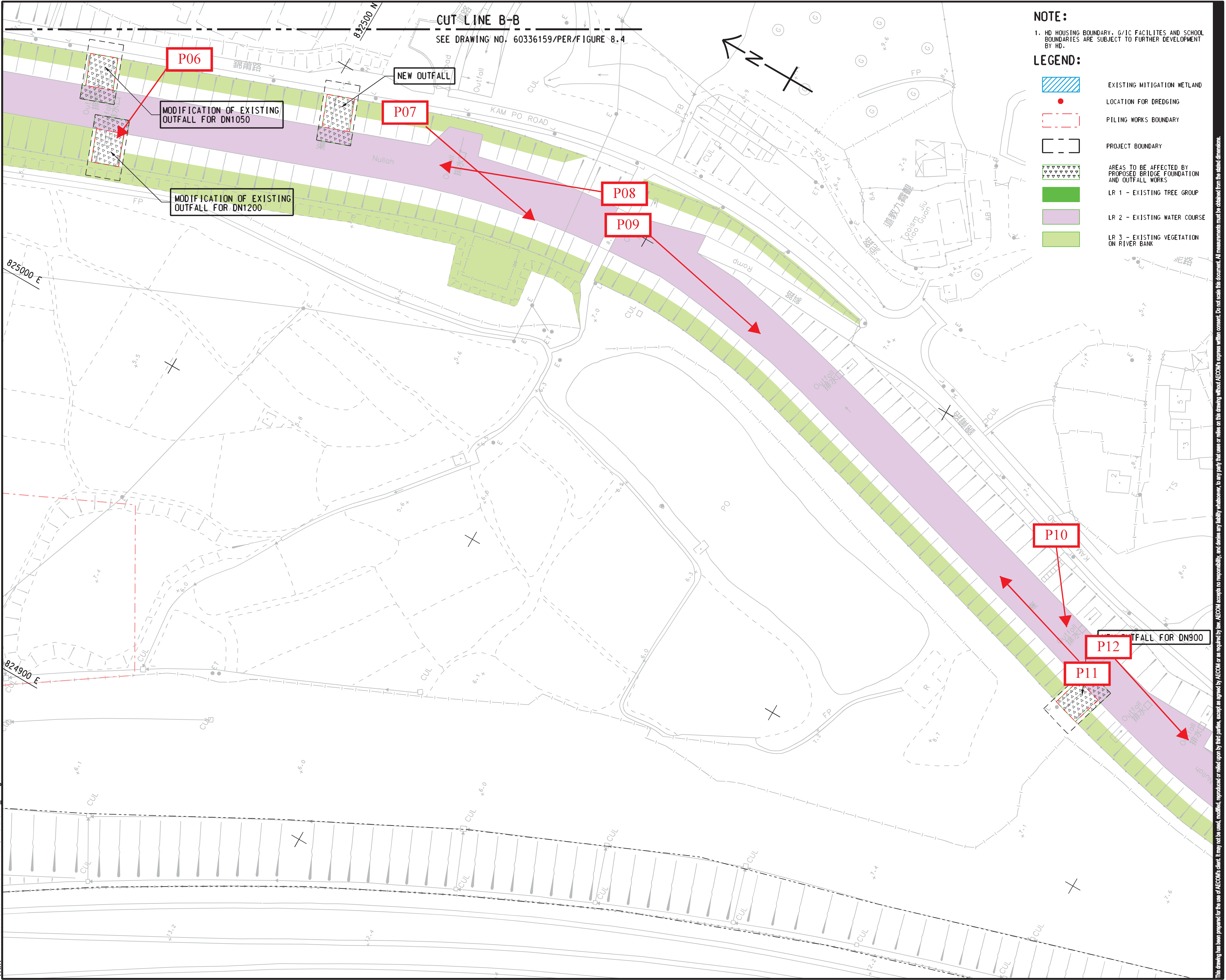
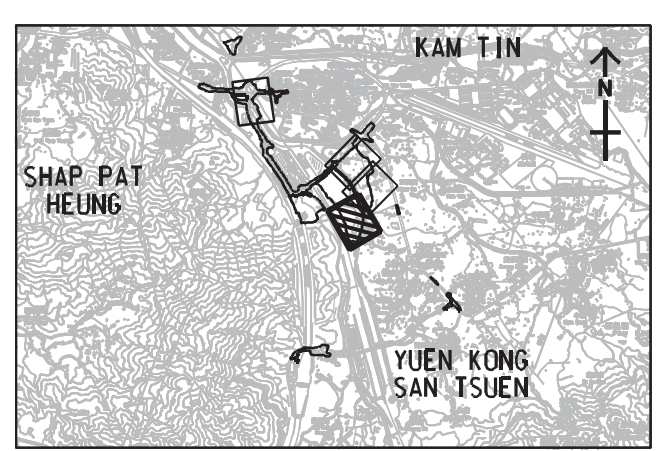
ISSUE/REVISION

I/R	DATE	DESCRIPTION	CHK.
修訂	日期	內容摘要	核對

STATUS

SCALE
A1 1:500
DIMENSION UNIT
METRES

KEY PLAN A1 1:60000



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Figure 7-3
Baseline Landscape Resources & Monitoring Locations (3)

APPENDIX A
ACTION AND LIMIT LEVELS

Appendix A - Action and Limit Levels

Table A-1 Action and Limit Levels for WQM

Parameters	Action Level	Limit Level
pH	N/A	<6.5 or >8.5
DO in mg/L	≤ 1.6	≤ 1.6
Turbidity in NTU	≥ 19.3 or 120% of upstream control station.	≥ 20.6 or 130% of upstream control station.
SS in mg/L	≥ 50.7 or 120% of upstream control station.	≥ 56.0 or 130% of upstream control station.
Zinc in $\mu\text{g/L}$	>120% of upstream control station	>130% of upstream control station

**APPENDIX C
ENVIRONMENTAL MONITORING
SCHEDULES**

Contract No. YL/2020/04

**Contract No. YL/2020/04 Site Formation and Infrastructure Works for Public Housing Developments at Kam Tin South, Yuen Long –
Impact Landscape & Visual Monitoring Schedule (October 2023)**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1-Oct	2-Oct	3-Oct	4-Oct	5-Oct	6-Oct	7-Oct
8-Oct	9-Oct	10-Oct	11-Oct	12-Oct	13-Oct	14-Oct
15-Oct	16-Oct	17-Oct	18-Oct	19-Oct	20-Oct	21-Oct
				Landscape & Visual		
22-Oct	23-Oct	24-Oct	25-Oct	26-Oct	27-Oct	28-Oct
29-Oct	30-Oct	31-Oct				

Contract No. YL/2020/04

**Contract No. YL/2020/04 Site Formation and Infrastructure Works for Public Housing Developments at Kam Tin South, Yuen Long –
Tentative Impact Water Quality and Landscape & Visual Monitoring Schedule (November 2023)**

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1-Nov	2-Nov	3-Nov	4-Nov
5-Nov	6-Nov	7-Nov	8-Nov	9-Nov	10-Nov	11-Nov
12-Nov	13-Nov	14-Nov	15-Nov	16-Nov	17-Nov	18-Nov
19-Nov	20-Nov	21-Nov	22-Nov	23-Nov	24-Nov	25-Nov
	Water Quality Monitoring		Water Quality Monitoring	Landscape & Visual	Water Quality Monitoring	
26-Nov	27-Nov	28-Nov	29-Nov	30-Nov		
	Water Quality Monitoring		Water Quality Monitoring			

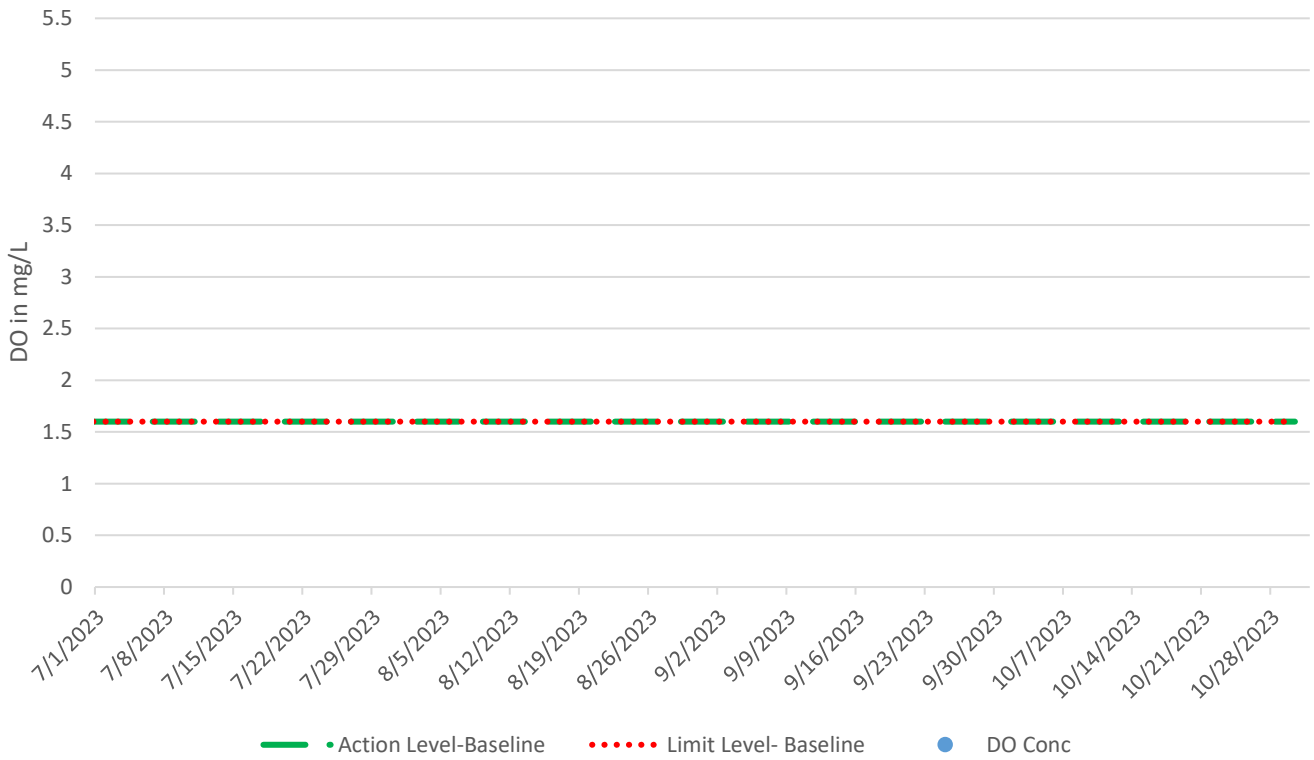
The schedule may be changed due to unforeseen circumstances (adverse weather, safety concerns, etc.)

*According to the Contractor, the proposed outfall works would be commenced on 20 Nov 2023, hence the water quality monitoring and weekly landscape & visual monitoring is proposed to be started on 20 Nov 2023 accordingly.

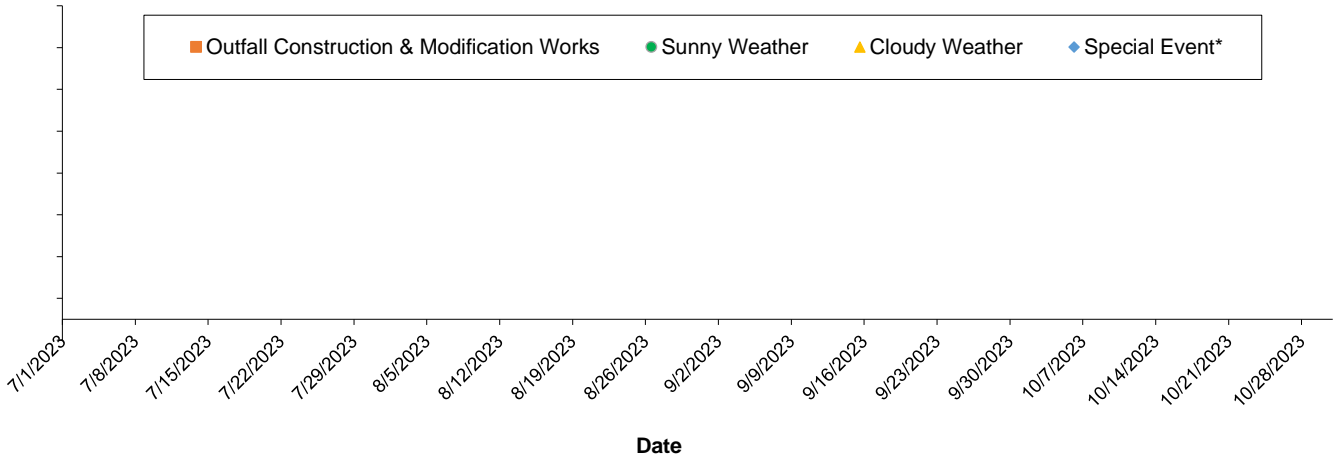
**APPENDIX E
WATER MONITORING RESULTS AND
GRAPHICAL PRESENTATIONS**

Dissolved Oxygen

DO Conc. in WMS2



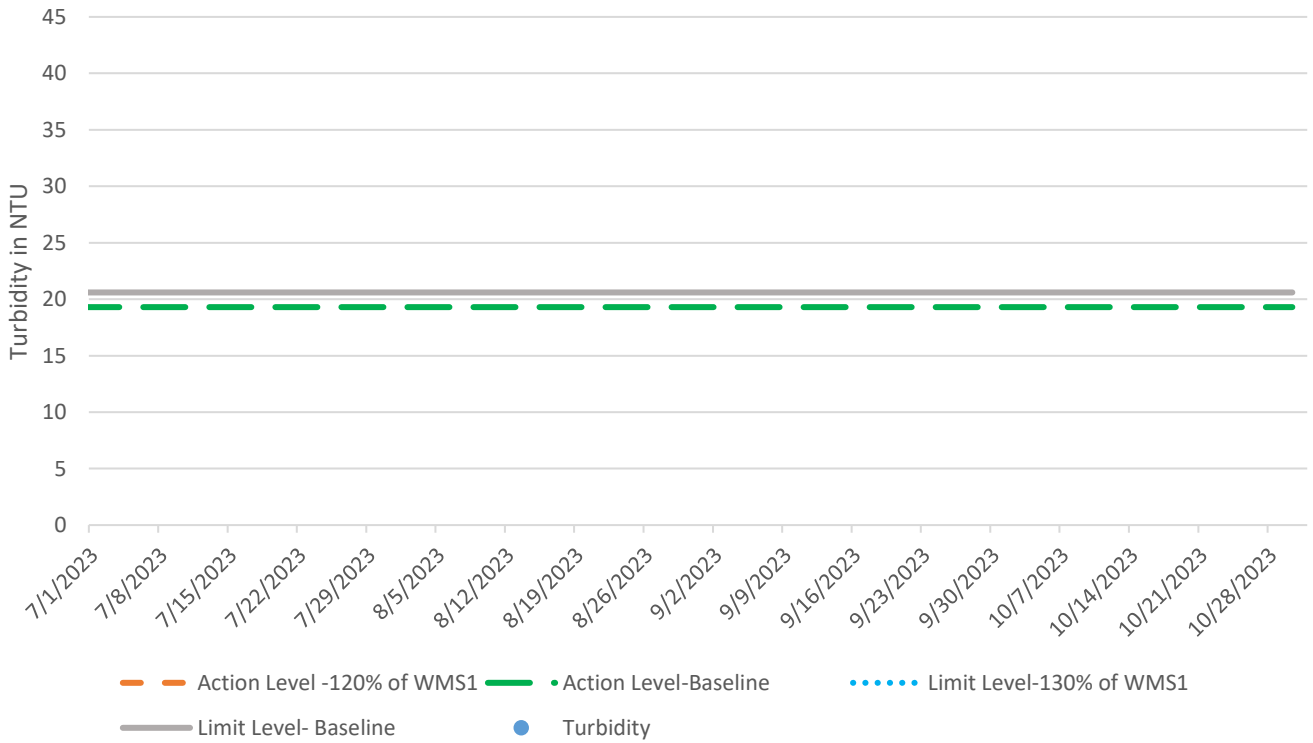
Weather & Construction Works



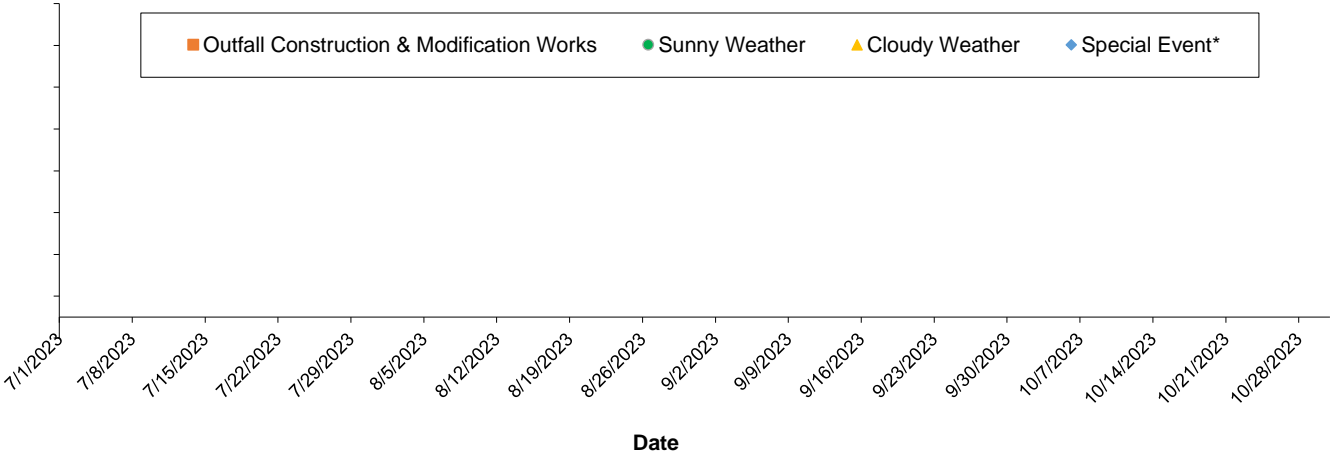
Title Service Contract No. WD/09/2022 Environmental Team for Site Formation and Infrastructure Works for Public Housing Developments at Kam Tin South, Yuen Long – Phase 1 Graphical Presentation of Impact Water Quality Monitoring Results	Scale N.T.S	Project No. MA22199	
	Date Oct-23	Appendix E	


Turbidity

Turbidity in WMS2



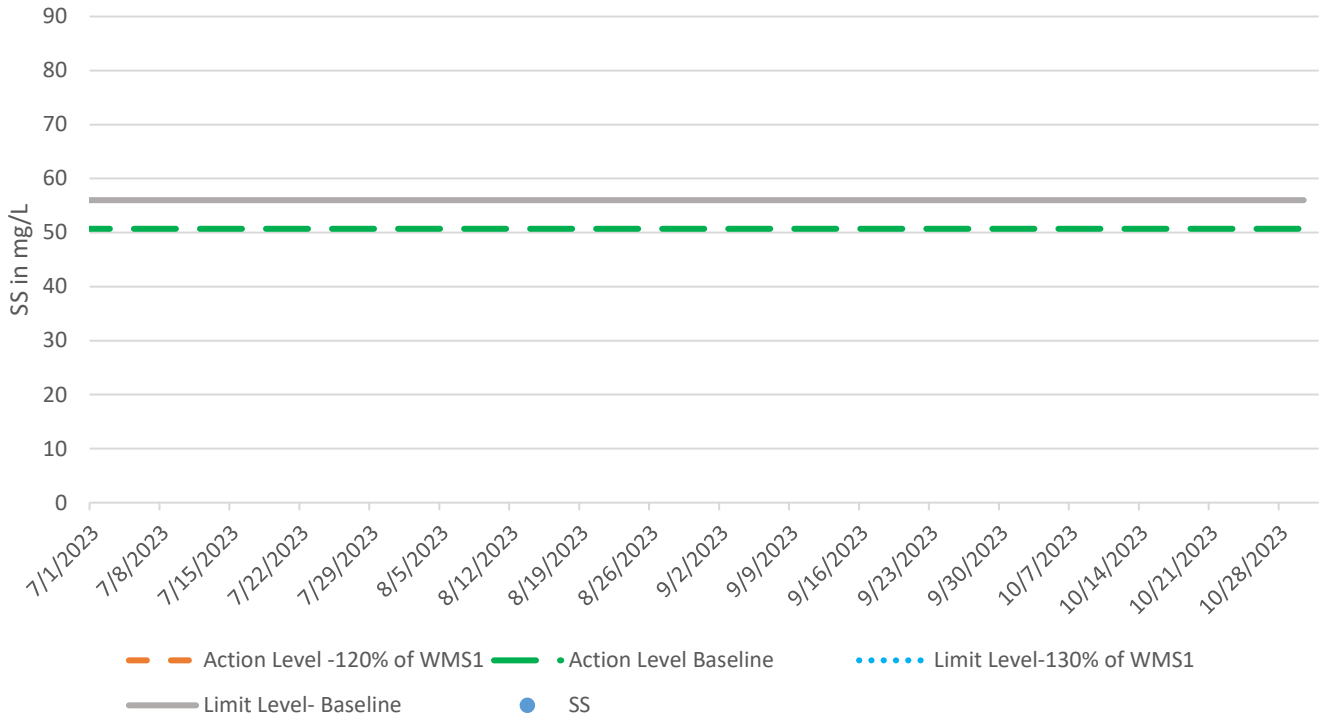
Weather & Construction Works



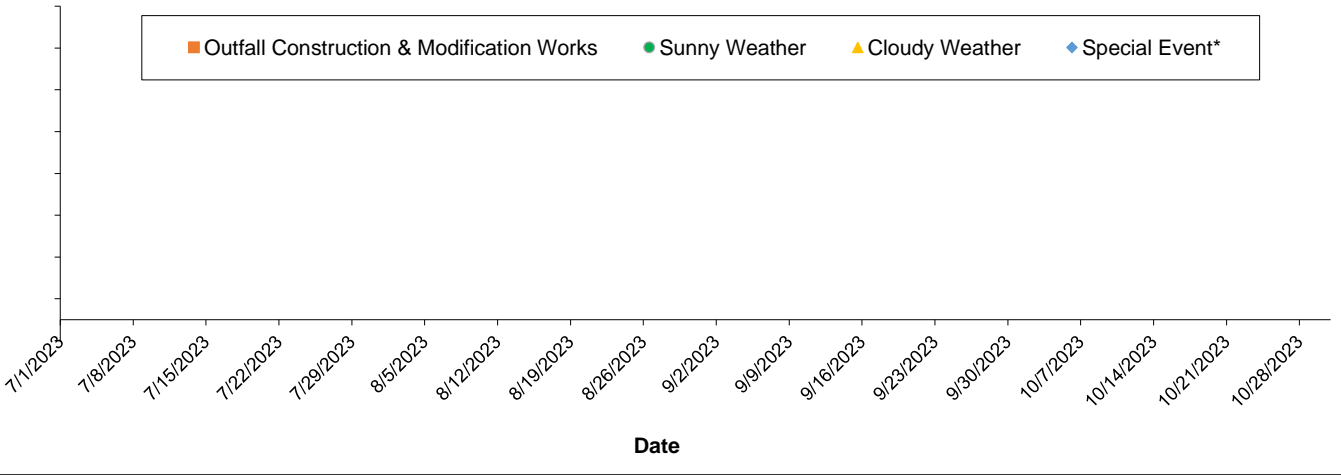
Title Service Contract No. WD/09/2022 Environmental Team for Site Formation and Infrastructure Works for Public Housing Developments at Kam Tin South, Yuen Long – Phase 1 Graphical Presentation of Impact Water Quality Monitoring Results	Scale N.T.S	Project No. MA22199	
	Date Oct-23	Appendix E	


Suspended Solids

SS in WMS2

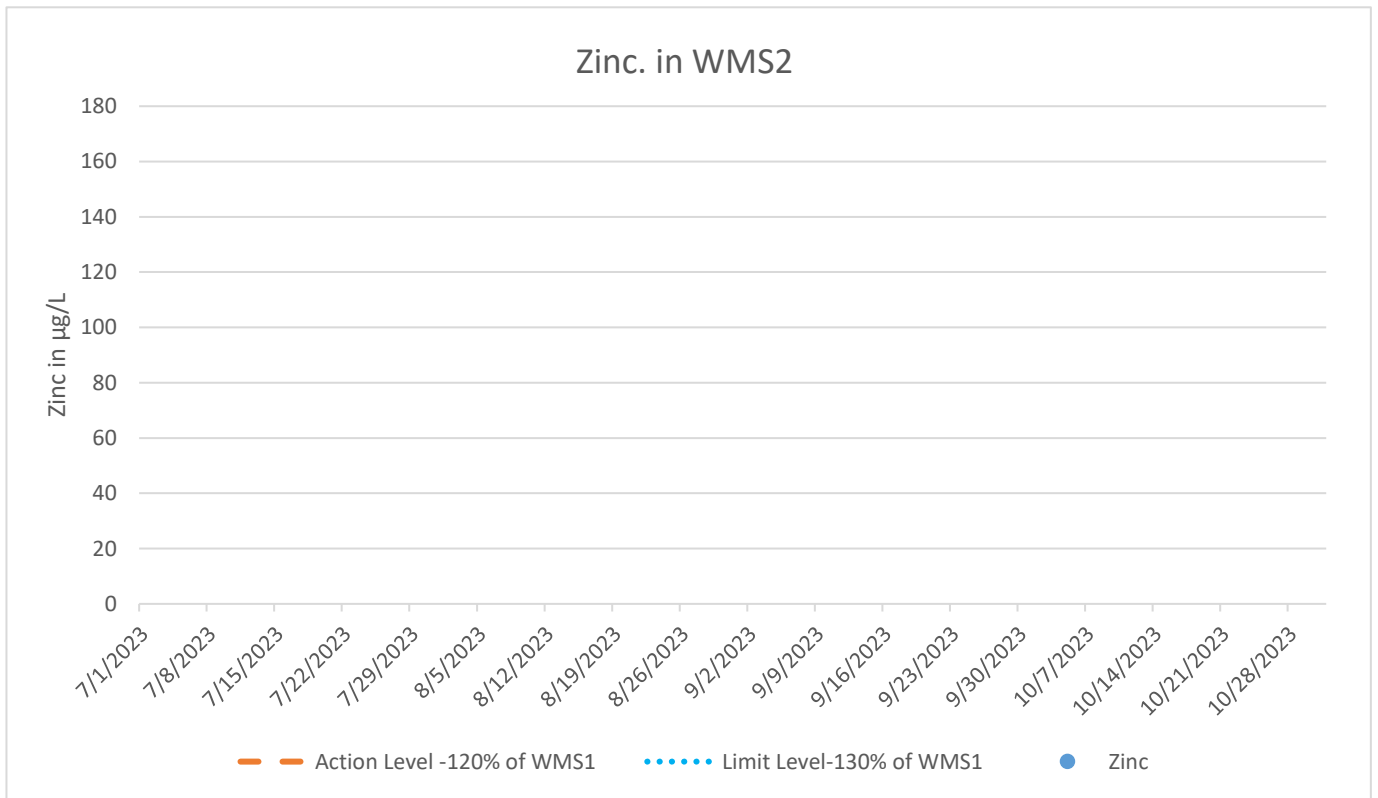


Weather & Construction Works

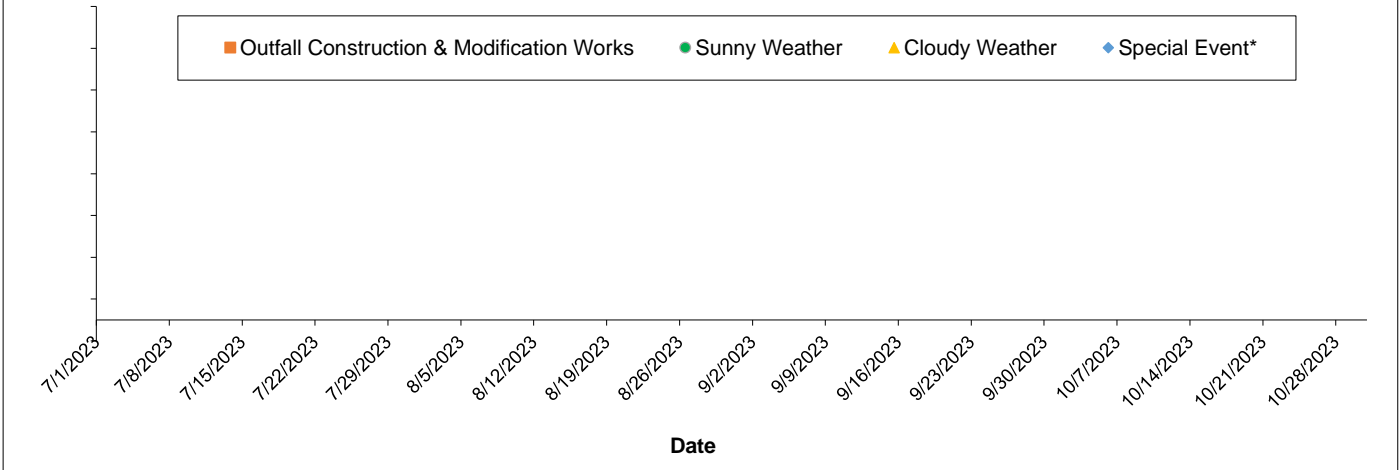


Title Service Contract No. WD/09/2022 Environmental Team for Site Formation and Infrastructure Works for Public Housing Developments at Kam Tin South, Yuen Long – Phase 1 Graphical Presentation of Impact Water Quality Monitoring Results	Scale N.T.S	Project No. MA22199	
	Date Oct-23	Appendix E	

Zinc



Weather & Construction Works



Title Service Contract No. WD/09/2022 Environmental Team for Site Formation and Infrastructure Works for Public Housing Developments at Kam Tin South, Yuen Long – Phase 1 Graphical Presentation of Impact Water Quality Monitoring Results	Scale N.T.S	Project No. MA22199	
	Date Oct-23	Appendix E	

APPENDIX H
SUMMARY OF EXCEEDANCE

Service Contract No. WD/09/2022
Environmental Team for Site Formation and Infrastructure Works for
Public Housing Developments at Kam Tin South, Yuen Long – Phase 1

Appendix H – Summary of Exceedance

Reporting Period: October 2023

(A) Exceedance Report for Water Quality

No construction / modification works of the outfalls shall be conducted during wet season (i.e. April - October 2023) and no water quality monitoring was carried out in the reporting period.

No Action Level and Limit Level exceedances were recorded in the reporting period.

**APPENDIX I
SITE AUDIT SUMMARY**



Contract No. YL/2020/04

Site Formation and Infrastructure Works for Public Housing Developments at Kam Tin South, Yuen Long – Phase 1

**Weekly Site Inspection Record Summary
Inspection Information**

Checklist Reference Number	231019
Date	19 October 2023 (Thursday)
Time	09:30 – 10:30

Ref. No.	Non-Compliance	Related Item No.
-	None identified	-
Ref. No.	Remarks/Observations	Related Item No.
	B. Water Quality	
	• No environmental deficiency was identified during site inspection.	
	C. Air Quality	
	• No environmental deficiency was identified during site inspection.	
	D. Noise	
	• No environmental deficiency was identified during site inspection.	
	E. Waste / Chemical Management	
	• No environmental deficiency was identified during site inspection.	
	F. Visual and Landscape	
	• No environmental deficiency was identified during site inspection.	
	G. Permits /Licences	
230420-R1 (Follow-up Item)	• Following up on the previous session (Ref no. 230420), the item was not fully rectified by the contractor. The wastewater discharge licence for Site 4a-1 is not yet available.	G2
	H. Others	
	• No environmental deficiency was identified during site inspection.	

	Name	Signature	Date
Recorded by	Charles Fung		19 October 2023
Checked by	William Yeung		20 October 2023

**APPENDIX J
PHOTOGRAPHIC RECORD OF
LANDSCAPE RESOURCES**

Appendix J – Photographs of Landscape Resources



Monitoring Location – P01 (19th October 2023)

LR2 - Existing Watercourse

LR3 - Existing Vegetation on River Bank / Grasscrete on Embankment



Monitoring Location – P02 (19th October 2023)

LR2 - Existing Watercourse

LR3 - Existing Vegetation on River Bank / Grasscrete on Embankment

Appendix J – Photographs of Landscape Resources



Monitoring Location – P03 (19th October2023)

LR2 - Existing Watercourse

LR3 - Existing Vegetation on River Bank / Grasscrete on Embankment



Monitoring Location – P04 (19th October2023)

LR2 - Existing Watercourse

LR3 - Existing Vegetation on River Bank / Grasscrete on Embankment

Appendix J – Photographs of Landscape Resources



Monitoring Location – P05 (19th October2023)

LR2 - Existing Watercourse

LR3 - Existing Vegetation on River Bank / Grasscrete on Embankment



Monitoring Location – P06 (19th October2023)

LR2 - Existing Watercourse

LR3 - Existing Vegetation on River Bank / Grasscrete on Embankment

Appendix J – Photographs of Landscape Resources



Monitoring Location – P07 (19th October2023)

LR2 - Existing Watercourse

LR3 - Existing Vegetation on River Bank / Grasscrete on Embankment



Monitoring Location – P08 (19th October2023)

LR2 - Existing Watercourse

LR3 - Existing Vegetation on River Bank / Grasscrete on Embankment

Appendix J – Photographs of Landscape Resources



Monitoring Location – P09 (19th October2023)

LR2 - Existing Watercourse

LR3 - Existing Vegetation on River Bank / Grasscrete on Embankment



Monitoring Location – P10 (19th October2023)

LR2 - Existing Watercourse

LR3 - Existing Vegetation on River Bank / Grasscrete on Embankment

Appendix J – Photographs of Landscape Resources



Monitoring Location – P11 (19th October2023)

LR2 - Existing Watercourse

LR3 - Existing Vegetation on River Bank / Grasscrete on Embankment



Monitoring Location – P12 (19th October2023)

LR2 - Existing Watercourse

LR3 - Existing Vegetation on River Bank / Grasscrete on Embankment

**APPENDIX K
ENVIRONMENTAL MITIGATION
IMPLEMENTATION SCHEDULE (EMIS)**

Appendix K

EM&A Ref.	Mitigation Measures	Status
Construction Water Quality		
S2.1.2.1	All construction / modification works should be conducted in dry season, by phases where necessary, in order to avoid the obstruction to the river water flow. All the construction works would be undertaken within a dry zone and physically separated from Kam Tin River.	N/A
S2.1.2.2	Double layers comprising of concrete bund and impermeable sheet pile walls should be installed to fully enclose the construction work areas for outfall construction / modification in / near the Kam Tin River prior to any construction works take place.	N/A
S2.1.2.2	Dewatering of the construction works area or diversion of water flow should be undertaken before the construction works to avoid water flow in the construction work areas.	N/A
S2.1.2.2	Silt removal facilities should be used to clarify the effluent generated from the dewatering operation, if any, before discharging back to the watercourse / drainage system.	N/A
S2.1.3.1	High loading of SS in site runoff should be prevented through proper site management by the contractor.	N/A
S2.1.3.1	Sand and silt removal facilities, channels and manholes should be maintained and the deposited silt and grit should be removed regularly by the contractor, and at the onset of and after each rainstorm to ensure that these facilities are functioning properly.	N/A
S2.1.3.1	The drilling operation can be fully controlled by the workers, the volume of sediment laden water and the material stockpiled in the temporary storage steel tank can be anticipated such that spillage can be prevented. The tank should be kept within the temporary working platform with surrounding concrete bund walls. The tanks should be removed to other site area located far away from the river immediately after filling up and within the same day.	N/A
S2.1.3.1	Stockpiles should not be kept in the river and should be located away from the river.	N/A
S2.1.3.1	Plant workshop/ maintenance areas should be bundled on a hard standing. Sediment traps and oil interceptors should be provided at appropriate locations.	N/A
S2.1.3.1	Works should be programmed to minimize soil excavation works where practicable during the rainy days.	N/A
S2.1.3.1	Vehicle wheel washing facilities should be provided at the site exit such that mud, debris, etc. attached to the vehicle wheels or body can be washed off before the vehicle leaves the work site.	N/A
S2.1.3.1	Section of the road between the wheel washing bay and the public road will be paved to reduce vehicle tracking of soil and to prevent site run-off from entering public road drains.	N/A
S2.1.3.1	Sufficient chemical toilets should be provided in the works areas for the sewage generated by the workforce. A licensed waste collector should be deployed to clean the chemical toilets on a regular basis. Any sewage or wastewater discharge into the surrounding environment should not be allowed. Any chemical toilets should be located away from the riverside to prevent spillage of sewage.	N/A

Appendix K

EM&A Ref.	Mitigation Measures	Status
Ecological Impact		
S2.2.2	The process of the piling works should be completed within dry season where the water flow in Kam Tin River is low.	N/A
S2.2.3	Temporary working platform for piling works would be set up 1m above the river bed. For every piling location, the drilling area would be enclosed by confined casing. Excavated materials would be prevented from leaking into the river.	N/A
S2.2.3	Waste water from piling works would be treated in water tank and reuse for the piling works. Sand bags would be used to block spilling water from entering into the river. Excessive waste water would be removed by pumps.	N/A
Construction Air Quality		
S2.3.1	Dust control and suppression measures stipulated in the Air Pollution Control (Construction Dust) Regulation will be implemented to control the dust emissions from the site including regular water spraying of exposed surfaces, wheel washing and covering dusty material stockpiles with tarpaulin sheet and provision of covers for all trucks.	N/A
Construction Noise Impact		
S2.4.1	Use of noise enclosures where applicable.	N/A
S2.4.1	Reduction in the number of noisy plant operating simultaneously.	N/A
S2.4.1	Maintenance of noisy equipment so as to minimise noise.	N/A
S2.4.1	Siting mobile plant as far away from NSRs as possible.	N/A
S2.4.1	Turning off noisy plant when not in use.	N/A
S2.4.1	Effective use of material stock piles and other structures for noise screening on-site.	N/A
Construction Waste Management		
S2.5.1	Good waste management plan and practices shall be implemented to ensure proper handling and disposal of waste to ensure that construction wastes do not enter the nearby streams or drainage channel.	N/A
S2.5.1	Inert C&D materials should be reused on site as backfilling materials. Non-inert C&D materials mainly plywood for formwork would be sorted on-site before disposal to the WENT Landfill site at Tuen Mun. Disposal of C&D materials should be managed in accordance with the Development Bureau Technical Circular (Works) DEVB TC(W)) No. 6/2010 "Trip Ticket System for Disposal of Construction & Demolition Materials".	N/A
S2.5.2	All chemical wastes from equipment maintenance will be handled, stored, and disposed of properly in accordance with the Waste Disposal (Chemical Waste) Regulation.	N/A

Appendix K

EM&A Ref.	Mitigation Measures	Status
S2.5.3	General refuse should be stored in enclosed bins or compaction units, separated from C&D materials and chemical wastes. A reputable waste collector should be employed by the contractor to collect and dispose of general refuse, which will be separated from C&D materials and chemical wastes, on a daily or every second day basis to minimize odour, pest and litter impacts.	N/A
Landscape and Visual Impact		
S2.7.1	Alleviate potential adverse impact shall be reinstatement of all landscape areas disturbed temporarily during working period on like-to-like basis or for better quality.	^

Remarks: EM&A Programme under FEP-01/195/2004/A	
^	Compliance of mitigation measure;
N/A	Not applicable at this stage;
N/A(1)	Not observed;
*	Recommendation was made during site audit but improved/retified by the contractor;
#	Recommendation was made during site audit but not yet improved/retified by the contractor;
X	Non-compliance of mitigation measure;
●	Non-compliance but rectified by the contractor.

**APPENDIX L
EVENT AND ACTION PLAN FOR WATER
QUALITY**

Appendix L - Event and Action Plans

Table L-1 Event and Action Plan for Water Quality

Event	Action			
	ET	IEC	PM/PMD	Contractor
Action level being exceeded by one sampling day	<ul style="list-style-type: none"> Repeat in-situ measurement to confirm findings; Identify source(s) of impact; Inform IEC and Contractor; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC and Contractor; Repeat measurement on next day of exceedance. 	<ul style="list-style-type: none"> Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the PM/PMD accordingly; Assess the effectiveness of the implemented mitigation measures. 	<ul style="list-style-type: none"> Discuss with IEC on the proposed mitigation measures; Make agreement on the mitigation measures to be implemented; 	<ul style="list-style-type: none"> Inform the PM/PMD and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET and IEC and propose mitigation measures to IEC and PM/PMD; Implement the agreed mitigation measures..
Action level being exceeded by more than	<ul style="list-style-type: none"> Repeat in-situ measurement to confirm findings; Identify source(s) of impact; 	<ul style="list-style-type: none"> Discuss with ET and Contractor on the mitigation measures; Review proposals on 	<ul style="list-style-type: none"> Discuss with IEC on the proposed mitigation measures; 	<ul style="list-style-type: none"> Inform the PM/PMD and confirm notification of the non-compliance in writing;

Appendix L - Event and Action Plans

Event	Action			
	ET	IEC	PM/PMD	Contractor
one consecutive sampling days	<ul style="list-style-type: none"> • Inform IEC and Contractor; • Check monitoring data, all plant, equipment and Contractor's working methods; • Discuss mitigation measures with IEC and Contractor; • Ensure mitigation measures are implemented; • Prepare to increase the monitoring frequency to daily; • Repeat measurement on next day of exceedance. 	<p>mitigation measures submitted by Contractor and advise the PM/PMD accordingly;</p> <ul style="list-style-type: none"> • Assess the effectiveness of the implemented mitigation measures. 	<ul style="list-style-type: none"> • Make agreement on the mitigation measures to be implemented; • Assess the effectiveness of the implemented mitigation measures. 	<ul style="list-style-type: none"> • Rectify unacceptable practice; • Check all plant and equipment; • Consider changes of working methods; • Discuss with ET and IEC and propose mitigation measures to IEC and PM/PMD within 3 working days; • Implement the agreed mitigation measures.

Appendix L - Event and Action Plans

Event	Action			
	ET	IEC	PM/PMD	Contractor
Limit level being exceeded by one sampling day	<ul style="list-style-type: none"> Repeat in-situ measurement to confirm findings; Identify source(s) of impact; Inform IEC, contractor and EPD; Check monitoring data, all plant, equipment and Contractor's working methods; Discuss mitigation measures with IEC, PM/PMD and Contractor; Ensure mitigation measures are implemented; Increase the monitoring frequency to daily until no exceedance of Limit level. 	<ul style="list-style-type: none"> Discuss with ET and Contractor on the mitigation measures; Review proposals on mitigation measures submitted by Contractor and advise the PM/PMD accordingly; Assess the effectiveness of the implemented mitigation measures. 	<ul style="list-style-type: none"> Discuss with IEC, ET and Contractor on the proposed mitigation measures; Request Contractor to critically review the working methods; Make agreement on the mitigation measures to be implemented; Assess the effectiveness of the implemented mitigation measures. 	<ul style="list-style-type: none"> Inform the PM/PMD and confirm notification of the non-compliance in writing; Rectify unacceptable practice; Check all plant and equipment; Consider changes of working methods; Discuss with ET , IEC and PM/PMD and propose mitigation measures to IEC and PM/PMD within 3 working days; Implement the agreed mitigation measures.
Limit level being exceeded by	<ul style="list-style-type: none"> Repeat in-situ measurement to confirm findings; Identify source(s) of impact; 	<ul style="list-style-type: none"> Discuss with ET and Contractor on the mitigation measures; 	<ul style="list-style-type: none"> Discuss with IEC, ET and Contractor on the proposed 	<ul style="list-style-type: none"> Inform the PM/PMD and confirm notification of the non-compliance in

Appendix L - Event and Action Plans

Event	Action			
	ET	IEC	PM/PMD	Contractor
more than one consecutive sampling days	<ul style="list-style-type: none"> • Inform IEC, contractor and EPD; • Check monitoring data, all plant, equipment and Contractor's working methods; • Discuss mitigation measures with IEC, PM/PMD and Contractor; • Ensure mitigation measures are implemented; • Increase the monitoring frequency to daily until no exceedance of Limit level for two consecutive days 	<ul style="list-style-type: none"> • Review proposals on mitigation measures submitted by Contractor and advise the PM/PMD accordingly; • Assess the effectiveness of the implemented mitigation measures.. 	<p>mitigation measures;</p> <ul style="list-style-type: none"> • Request Contractor to critically review the working methods; • Make agreement on the mitigation measures to be implemented; • Assess the effectiveness of the implemented mitigation measures; • Consider and instruct, if necessary, the Contractor to slow down or to stop all or part of the 	<p>writing;</p> <ul style="list-style-type: none"> • Rectify unacceptable practice; • Check all plant and equipment; • Consider changes of working methods; • Discuss with ET , IEC and PM/PMD and propose mitigation measures and PM/PMD within 3 working days; • Implement the agreed mitigation measures; • As directed by the PM/PMD, to slow down or to stop all or part of the construction activities.

Appendix L - Event and Action Plans

Event	Action			
	ET	IEC	PM/PMD	Contractor
			construction activities until no exceedance of Limit level.	

**APPENDIX M
SUMMARIES OF ENVIRONMENTAL
COMPLAINT, WARNING, SUMMON AND
NOTIFICATION OF SUCCESSFUL
PROSECUTION**

Service Contract No. WD/09/2022

Environmental Team for Site Formation and Infrastructure Works for Public Housing Development at Kam Tin South, Yuen Long – Phase 1

Appendix M – Summary of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution

Reporting Month: October 2023

Table M-1 Environmental Complaint Records

Log Ref.	Complaint No.	ICC Case No.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Remarks: No environmental complaint was received in the reporting period.

Service Contract No. WD/09/2022

Environmental Team for Site Formation and Infrastructure Works for Public Housing Development at Kam Tin South, Yuen Long – Phase 1

Appendix M – Summary of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution

Table M-2 Environmental Warning Records

Log Ref.	Location	Received Date	Details of Warning	Status
N/A	N/A	N/A	N/A	N/A

Remarks: No environmental warning was received in the reporting period.

Table M-3 Environmental Summon and Prosecution Records

Log Ref.	Location	Received Date	Details of Summon and Prosecution	Status
N/A	N/A	N/A	N/A	N/A

Remarks: No environmental summon and prosecution was received in the reporting period.

Service Contract No. WD/09/2022

Environmental Team for Site Formation and Infrastructure Works for Public Housing Development at Kam Tin South, Yuen Long – Phase 1

Appendix M – Summary of Environmental Complaint, Warning, Summon and Notification of Successful Prosecution

Table M-4 Summary of Cumulative Complaint Log

Reporting Month/Year	Number of Complaints in Reporting Month	Number of Summons in Reporting Month	Number of Prosecutions in Reporting Month
March 2023	0	0	0
April 2023	0	0	0
May 2023	0	0	0
June 2023	0	0	0
July 2023	0	0	0
August 2023	0	0	0
September 2023	0	0	0
October 2023	0	0	0
Total	0	0	0

**APPENDIX N
WASTE FLOW TABLE**

Sang Hing – Kuly Joint Venture

Environmental Management Plan for Contract No. YL/2020/04

Site Formation and Infrastructure Works for Public Housing Developments at Kam Tin South, Yuen Long - Phase 1

Name of Department: CEDD

Contract No.: YL/2020/04

Monthly Summary Waste Flow Table for 2023 (Year)

Appendix N

Month	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of C&D Wastes Generated Monthly				
	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	Chemical Waste	Others, e.g. general refuse
	(In ton)	(In ton)	(In ton)	(In ton)	(In ton)	(In ton)	(in '000 kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m ³)
Jan											
Feb											
Mar	656.33	0	0	0	656.33	0	0	0	0	0	0
Apr	734.54	0	0	0	734.54	0	0	0	0	0	0
May	851.37	0	0	0	851.37	0	0	0	0	0	0
June	604.44	0	0	0	604.44	0	0	0	0	0	0
July	374.63	0	0	0	374.63	0	0	0	0	0	0
Aug	295.65	0	0	0	295.65	0	0	0	0	0	0
Sept	43.74	0	0	0	43.74	0	0	0	0	0	0
Oct	130.01	0	0	0	130.01	0	0	0	0	0	0
Nov	0	0	0	0	0	0	0	0	0	0	0
Dec	0	0	0	0	0	0	0	0	0	0	0
Total	3690.71	0	0	0	3690.71	0	0	0	0	0	0

*Remark: Imported Fill not taken into account of Total Quantity Generated

**APPENDIX O
TENTATIVE CONSTRUCTION
PROGRAMME**

ID	Task Name	Duration	Time Risk Allowance	Start	Finish	Predecessors	% Complete	Float	Successors	2021					2022					2023					2024					2025																									
										May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb
1	Project Programme of Works	1676 days		Mon 21/6/28	Wed 26/1/28		53%	0 days		[Gantt bar from 2021 May to 2025 Feb]																																													
2																																																							
3	Total Percentage of Time Elapsed : 48.4% ; Remaining Duration : 676 days	0 days		Fri 23/2/24	Fri 23/2/24		100%	0 days		[Milestone diamond at 2023 Mar]																																													
4	1. Contract Dates	1676 days		Mon 21/6/28	Wed 26/1/28		44%	0 days		[Gantt bar from 2021 May to 2025 Feb]																																													
28																																																							
41																																																							
42	2. Preliminary works	1371 days		Mon 21/6/28	Sat 25/3/29		60%	305 days		[Gantt bar from 2021 May to 2023 Mar]																																													
83																																																							
84	3. Section Ia of the works (Portion 1, 1a, 1b and 12)	22 days			Tue 23/3/28		77%			[Task bar from 2023 Mar to 2023 Apr]																																													
85	Works within Kam Tin River Boundary	22 days		Tue 23/3/7	Tue 23/3/28		77%	1037 days		[Task bar from 2023 Mar to 2023 Apr]																																													
86	Modification of Outfall OF 1 (DN900)	22 days		Tue 23/3/7	Tue 23/3/28		77%	1037 days	87SS,91SS	[Task bar from 2023 Mar to 2023 Apr]																																													
87	Modification of Outfall OF 3 (DN900)	22 days		Tue 23/3/7	Tue 23/3/28	86SS	77%	1037 days		[Task bar from 2023 Mar to 2023 Apr]																																													
88																																																							
89	4. Section Ib of the works (Portion 2)																																																						
90	Works within Kam Tin River Boundary	22 days		Tue 23/3/7	Tue 23/3/28		77%	1037 days		[Task bar from 2023 Mar to 2023 Apr]																																													
91	Construction of new Outfall OF 7 (DN1200)	22 days		Tue 23/3/7	Tue 23/3/28	86SS	77%	1037 days	92SS	[Task bar from 2023 Mar to 2023 Apr]																																													
92	Modification of Outfall OF 5 (DN1200)	22 days		Tue 23/3/7	Tue 23/3/28	91SS	77%	1037 days		[Task bar from 2023 Mar to 2023 Apr]																																													