MTR Corporation Limited

Siu Ho Wan Station and Siu Ho Wan Depot Replanning Works

Monthly EM&A Report

(December 2023)

Verified by	:Adi Lee
Position: _	Independent Environmental Checker
Date:	17 January 2024

MTR Corporation Limited

Siu Ho Wan Station and Siu Ho Wan Depot Replanning Works

Monthly EM&A Report

(December 2023)

Certified by:	Edan Li & Alm
Position:	Environmental Team Leader
Date:	17 January 2024

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1 INTRODUCTION

1.1 Background

- 1.1.1 MTR Corporation Limited (MTRCL) had commenced a study to formulate a technically feasible development scheme for the Proposed Comprehensive Residential and Commercial Development atop Siu Ho Wan Depot (hereinafter referred to the "Oyster Bay (OYB) Property Development") to optimize housing supply. To facilitate the construction of the OYB Property Development, railway related works would be required. The existing Siu Ho Wan Depot (SHD) will undergo replanning works to make room for the phased construction of the OYB Property Development, while maintenance and supporting services to the existing Tung Chung Line (TCL), Airport Express Line (AEL) and Disneyland Resort Line (DRL) should be maintained without causing disruption to the normal operation. A new Oyster Bay (OYB) Station (formerly named as Siu Ho Wan Station (SHO)) has also been proposed along the TCL tracks to meet transport needs of the OYB Property Development and enable building of a sustainable community.
- 1.1.2 The Environmental Impact Assessment (EIA) Report (Register No.: AEIAR-214/2017) for the SHO and SHD Replanning Works (hereafter referred to as the "Project") was approved on 29 November 2017 under the Environmental Impact Assessment Ordinance (EIAO). Following the approval of the EIA Report, an Environmental Permit (EP) was granted on 22 March 2021 (EP No: EP-588/2021) for the construction and operation of the Project.

1.2 Project Programme

1.2.1 Three civil construction works contracts of the Project have been awarded since December 2021. The construction of the Project commenced in December 2021 and these three works contracts are expected to complete in 2024. **Table 1.1** summarises the information of the awarded Works Contracts.

Table 1.1 Summary of Awarded Works Contracts

Table 1.1	Summary of Awarded Works Contracts			
Works Contract	Description	Construction Start Date	Contractor	Environmental Team
1731	Trial Piles and Site Formation for Siu Ho Wan Depot Property Development – Phase 1	January 2023	Gammon Construction Ltd.	WSP (Asia) Ltd.
1732	Cable bridges and associated civil works for cable diversion	December 2021	Paul Y – CRCCI JV	Acuity Sustainability Consulting Ltd.
1733	Vehicular Access Bridge, Demolition of Paint Shop and Construction of EV Stabling Tracks	April 2022	Build King Civil Engineering Ltd.	SGS Hong Kong Ltd.

1.3 Purpose of the Report

1.3.1 The Environmental Monitoring and Audit (EM&A) programme for the Project commenced in December 2021. This is the twenty fifth EM&A Report for the Project which summarises the EM&A works undertaken by the respective Contractor's ETs during the period from 1 to 31 December 2023.

2 ENVIRONMENTAL MONITORING AND AUDIT

2.1 EM&A Results

- 2.1.1 The EM&A Report for Works Contract 1731, 1732 and 1733 prepared by the Contractor's ET are provided in **Appendices A** to **C**. The EM&A Report provides details of the project information, EM&A requirements, impact monitoring and audit results for the Contract.
- 2.1.2 A summary of the major construction activities undertaken by the Contractor of Works Contract during the reporting period is presented in **Table 2.1**.

Table 2.1 Summary of Major Construction Activities in the Reporting Period

TUDIC Z. I	Cultimary of major Construction Activities in the Reporting 1 cried	
Works Contract	Site	Construction Activities
1731	Overall	Site Clearance & HoardingPre-drilling WorksBored Piling Works
1732	Overall	 General survey works Instrumentation monitoring Draw pits, cable ducts and cable trough works EVA construction and watermain installation near AB23 Additional footings at test track Additional civil provisions for standalone CCTV monitoring for EVA at east level crossing Cable containments at the footing for cable diversion Additional EV03&04 civil works and trackworks
1733	Overall	 Water Main Diversion LV Diversion Construction of EV Stabling Track and Vehicular Access Bridge Road Work E & M Work

2.1.3 During the reporting period, impact monitoring for air quality was conducted in accordance with the EM&A Manual. No exceedances of the Action / Limit Level of 1-hour TSP due to the Project construction were recorded. Results of air quality is summarised in **Tables 2.2**. Details of the monitoring requirements, locations, equipment and methodology are presented in **Appendices A** to **C** of this Report.

Table 2.2 Summary of 1-Hour TSP Monitoring Results in the Reporting Period

Monitoring Station ID	Location	TSP Concentration (µg/m³)	Action Level (µg/m³)	Limit Level (µg/m³)	Exceedance due to the Project Construction (Yes/No)
Works Contrac	Works Contract 1731, 1732 & 1733				
DM1	Siu Ho Wan Government Maintenance Depot	59.6 – 64.1	294.7	500	No

2.1.4 No environmental complaints, notification of summons and successful prosecutions were recorded in the reporting period. Log for environmental complaints, notification of summons and successful prosecutions is provided in **Table 2.3**.

Table 2.3 Log for Environmental Complaints, Notification of Summons and Successful Prosecutions for the Reporting Month

Works Contract	Environmental Complaints	Notification of Summons	Successful Prosecutions
1731	0	0	0
1732	0	0	0
1733	0	0	0

2.1.5 Regular site inspections were conducted by the Contractor's ET on a weekly basis and IEC audits on a monthly basis to check the implementation of environmental pollution control and mitigation measures for the Project. No non-conformance was identified in the reporting period.

3 IMPLEMENTATION STATUS ON THE ENVIRONMENTAL PROTECTION REQUIREMENTS

3.1.1 The Contractor has implemented all mitigation measures and requirements as stated in the EIA Report, EM&A Manual and EP (EP No: EP-588/2021). The status of required submissions under the EP as of the reporting period are summarised in **Table 3.1**.

Table 3.1 Summary of EP Submissions Status

EP Condition (EP-588/2021)	Submission	Submission date
Condition 1.12	Commencement Date of Construction	11 Jun 2021 (1st submission) 12 Jul 2021 (2nd submission) 12 Aug 2021 (3rd submission)
Condition 2.7	Construction Works Phasing Schedule Proposal	1 Nov 2021 (1st Submission) 20 Dec 2021 (2nd Submission) 29 Dec 2021 (Deposited) 9 October 2023 (1st Submission with updated Phase 1 works) 30 Nov 2023 (Deposited)
Condition 2.8	Environmental Permit Submission Schedule	12 Aug 2021 10 Sep 2021 (Deposited)
Condition 2.9	Management Organization	1 Nov 2021 (1st Submission) 20 Dec 2021 (2nd Submission) 21 Mar 2022 (3rd Submission) 9 Aug 2022 (4th Submission) 16 Nov 2022 (5th Submission) 18 Sep 2023 (6th submission)
Condition 2.10	Construction Noise Mitigation Plan	1 Nov 2021 (1st Submission) 20 Dec 2021 (2nd Submission) 28 Dec 2021 (Deposited) 30 Dec 2022 (1st Submission) which covered Phase 1 main works) 29 Mar 2023 (2nd Submission which covered Phase 1 main works) 18 May 2023 (3rd Submission which covered Phase 1 main works) 18 May 2023 (4th Submission for Phase 1 works) 30 Oct 2023 (5th Submission for Phase 1 works) 6 Dec 2023 (6th Submission for Phase 1 works) 8 Dec 2023 (Deposited)
Condition 2.11	Noise Mitigation Plan	31 Mar 2023 (1st submission) 31 Jul 2023 (2nd submission) 20 Oct 2023 (3rd submission)
Condition 2.13	Waste Management Plan	1 Nov 2021 (1st Submission) 20 Dec 2021 (2nd Submission) 28 Dec 2021 (Deposited) 30 Jun 2023 (1st Submission for Phase 1 work) 1 Aug 2023 (2nd Submission for Phase 1 works) 31 Aug 2023 (Deposited for Phase 1 works)
Condition 2.15	Landscape and Visual Plan(s)	27 Apr 2023 (1st Submission) 27 Jul 2023 (2nd Submission) 20 Oct 2023 (3rd Submission) 8 Dec 2023 (Approved)
Condition 3.3	Baseline Monitoring Report	1 Nov 2021 16 Nov 2021 (Deposited)

EP Condition (EP-588/2021)	Submission	Submission date
Condition 3.4	Monthly EM&A Report No.24 (November 2023)	Submitted within 10 working days after the end of the reporting month
Condition 4.2	Dedicated Internet Website	12 Jan 2022 25 Jul 2023 (update address)

Appendix A

Monthly EM&A Report for December 2023
Trial Piles And Site Formation for
Siu Ho Wan Depot Property Development
– Phase 1 Contract 1731

GAMMON CONSTRUCTION LIMITED

CONTRACT NO. 1731 TRIAL PILES AND SITE FORMATION FOR SIU HO WAN DEPOT PROPERTY DEVELOPMENT – PHASE 1

MONTHLY EM&A REPORT (DECEMBER 2023)

JANUARY 04, 2024 CONFIDENTIAL





Contract No. 1731
Trial Piles and Site
Formation for Siu Ho Wan
Depot Property Development
– Phase 1
Monthly EM&A Report
(December 2023)

FIRST ISSUE CONFIDENTIAL

PROJECT NO.: 2535700A DATE: JANUARY 04, 2024

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WSP.COM

QUALITY MANAGEMENT

ISSUE/REVISION	FIRST ISSUE	REVISION 1	REVISION 2	REVISION 3
Remarks				
Date	4 January 2024			
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Signature	ying			
Checked by	Dr Alex Cheung	-		
Signature	Clary			
Authorised by	Dr Paul Kau			
Signature	The			
Project number	2535700A			
File reference				

SIGNATURES

PREPARED BY

Gloria Chow Site Auditor

REVIEWED BY

Dr. Alex Cheung

Environmental Team Leader

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Executive Summary

This Environmental Monitoring and Audit (EM&A) report presented the EM&A works carried out during the reporting period from 1 to 31 December 2023.

A summary of the construction works reported by the Main Contractor for the Project during the reporting month is listed below.

- Site Clearance & Hoarding
- Pre-drilling Works
- Bored Piling Works

A summary of regular construction dust monitoring activities in this reporting period is listed below:

Construction dust (1-hour TSP) monitoring	
DM1	15 times

Site inspections were conducted on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures under the Contract. Four (4) site inspections were conducted on 4, 11, 18 and 27 December 2023 for this reporting period. One joint inspection with Independent Environmental Checker (IEC) was also conducted on 11 December 2023. The environmental performance of the Project was considered satisfactory.

Details of waste management can be referred to **Section 2.4**.

No Action or Limit Levels exceedance of 1-hour TSP was recorded during this reporting period.

No complaints, notification of summons and prosecutions received during December 2023. Statistics on complaints, notifications of summons and successful prosecutions are presented in **Section 3**.

No changes of EM&A programme were made in this reporting period.

A summary of works to be conducted in the coming reporting months is listed below.

- Site Clearance & Hoarding
- Pre-drilling Works
- Bored Piling Works

1 INTRODUCTION

1.1 BACKGROUND

- 1.1.1 The "Siu Ho Wan Station and Siu Ho Wan Depot Replanning Works" (EP-588/2021) project includes:
 - Siu Ho Wan Depot (SHD) replanning works, within the existing SHD boundary including construction of concrete slab over the SHD to provide support for future SHD Topside Development;
 - Construction of the new Oyster Bay (OYB) Station (formerly named as Siu Ho Wan Station (SHO)) and modification of the associated trackworks of the existing Airport Express Line/Tung Chung Line; and
 - Construction of other supporting facilities including the western access, the local accesses and sewerage network outside existing SHD boundary.
- 1.1.2 The "Siu Ho Wan Station and Siu Ho Wan Depot Replanning Works" Impact Assessment Report (Register No. AEIAR-214/2017) was approved by the Environmental Protection Department (EPD) with conditions on 29 November 2017. The latest Environmental Permit (No. EP-588/2021) was issued by the EPD on 22 March 2021.
- 1.1.3 WSP (Asia) Ltd. (WSP) is commissioned by Gammon Construction Limited to provide Environmental Team (ET) services during the construction phase of Contract No. 1731 Trial Piles and Site Formation for Siu Ho Wan Depot Property Development – Phase 1 (hereafter as "the Project").

1.2 PROJECT PROGRAMME

- 1.2.1 A summary of the construction works reported by the Main Contractor for the Project during the reporting month is listed below.
 - (1) Site Clearance & Hoarding
 - (2) Pre-drilling Works
 - (3) Bored Piling Works
- 1.2.2 The construction programme is provided in **Appendix A**.

1.3 PURPOSE OF THE REPORT

1.3.1 This is the 12th monthly Environmental Monitoring and Audit (EM&A) report presenting the EM&A works carried out during the reporting period from 1 to 31 December 2023.

2 ENVIRONMENTAL MONITORING AND AUDIT

2.1 SUMMARY OF ENVIRONMENTAL LICENSE, NOTIFICATION, PERMIT AND DOCUMENTATIONS

2.1.1 A summary of valid permits, licenses, and notifications on environmental protection for this Project are listed in **Table 2.1**.

Table 2.1 Summary of the Status of Valid Environmental License, Notification, Permit and Documentation

Permit / Licenses /	Valid I	Period	Status	Damark
Notification / Reference No.			Status	Remark
Environmental Permit				
EP-588/2021	22 Mar 2021	N/A	Valid	
Billing Account under	Waste Dispos	al (Charges fo	r Disposal	of Construction Waste)
Regulation				
7045243	6 Oct 2022	N/A	Valid	
Construction Noise Po	ermit			
GW-RS0814-23	4 Oct 2023	3 Apr 2024	Valid	
Notification Pursuant	to Section 3(1)	of the Air Pol	lution Cont	rol (Construction Dust)
Regulation				
483822	N/A	N/A	Notified	Notification submitted
403022	IN/A	IN/A	Notined	on 2 Sep 2022
Register of Chemical	Waste Produce	er		
5213-961-G2980-01	7 Oct 2022	N/A	Valid	
Water Pollution Disch	arge License			
WT000463109-2023	22 Feb 2023	29 Feb 2028	Valid	

2.2 ENVIRONMENTAL STATUS

2.2.1 Environment Permit (EP) conditions under the Environmental Impact Assessment Ordinance (EIAO), submission status of the EP and implementation status of mitigation measures had been reviewed and implemented on schedule. The status of required submissions under the EP (No. EP-588/2021) as of the reporting period for the Project are summarised in **Table 2.2**.

Table 2.2 Summary of Status of Required Submission for EP-588/2021 for the Project

ommencement Date of Construction	11 Jun 2021 (1st submission) 12 Jul 2021 (2nd submission) 12 Aug 2021 (3rd submission)
or	mmencement Date of Construction

	T	1 Nov 2021 (1st Cubminais)					
		1 Nov 2021 (1 st Submission)					
		20 Dec 2021 (2 nd Submission)					
Condition 2.7	Construction Works Phasing Schedule	29 Dec 2021 (Deposited)					
	Proposal	9 Oct 2023 (1st Submission					
		with updated Phase 1 works)					
		30 Nov 2023 (Deposited)					
Condition 2.8	Environmental Permit Submission	12 Aug 2021					
Gorialion 210	Schedule	10 Sep 2021 (Deposited)					
		1 Nov 2021 (1 st Submission)					
		20 Dec 2021 (2 nd Submission)					
0 1111 0 0	Management Opposition	21 Mar 2022 (3 rd Submission)					
Condition 2.9	Management Organization	9 Aug 2022 (4 th Submission)					
		16 Nov 2022 (5 th Submission)					
		18 Sep 2023 (6 th Submission)					
		1 Nov 2021 (1 st Submission)					
		` '					
		20 Dec 2021 (2 nd Submission)					
		28 Dec 2021 (Deposited)					
		30 Dec 2022 (1st Submission					
		which covered Phase 1 main					
		works)					
		29 Mar 2023 (2 nd Submission					
		which covered Phase 1 main					
Condition 2.10	Construction Noise Mitigation Plan	works)					
		18 May 2023 (3 rd Submission)					
		28 Jul 2023 (4 th submission					
		for Phase 1 works)					
		30 Oct 2023 (5 th Submission					
		for Phase 1 Works)					
		6 December 2023 (6 th					
		Submission for Phase 1					
		works)					
		8 December 2023 (Deposited)					
_		31 Mar 2023 (1st Submission)					
Condition 2.11	Noise Mitigation Plan	31 Jul 2023 (2 nd submission)					
		20 Oct 2023 (3 rd Submission)					
		1 Nov 2021 (1st Submission)					
		20 Dec 2021 (2 nd Submission)					
		28 Dec 2021 (Deposited)					
		30 Jun 2023 (1st submission					
Condition 2.13	Waste Management Plan	for Phase 1 work)					
		1 Aug 2023 (2 nd submission					
		for Phase 1 works)					
		31 Aug 2023 (Deposited for					
		Phase 1 works)					
		27 April 2023 (1st Submission)					
Condition 2.15	Landscape & Visual Plan	27 Jul 2023 (2nd submission)					
3011ditio11 2.10	Zandodapo di Viodai i idii	20 Oct 2023 (3 rd Submission)					
		20 Oct 2023 (3 Subitilissiof)					

		8 December 2023 (Approved)
Condition 3.3	Baseline Monitoring Report	1 Nov 2021
Condition 3.3	Baseline Monitoring Report	16 Nov 2021 (Deposited)
	Monthly CM9 A Donort	Submitted within 10 working
	Monthly EM&A Report (Jan 2023 – November 2023)	days after the end of the
Condition 3.4	(Jan 2023 – November 2023)	reporting month
	Monthly EM&A Report (December 2023)	This report submission
Condition 4.2	Dedicated Internet Website	12 Jan 2022
Condition 4.2	Dedicated internet Website	25 Jul 2023 (update address)

2.3 AIR QUALITY

- 2.3.1 Impact monitoring had been carried out in accordance with Section 2.6 of the approved EM&A Manual, with sampling frequency of at least 3 times in every 6 days undertaken, to determine the 1-hour total suspended particulates (TSP) levels at the monitoring location during this reporting period.
- 2.3.2 General meteorological conditions (wind speed, direction and precipitation) and notes regarding any significant adjacent dust producing sources had also been recorded throughout the impact monitoring period.
- 2.3.3 Portable direct reading dust meter was used to carry out the 1-hour TSP monitoring. Portable direction reading dust meters used for the monitoring were proven to IEC to be capable of achieving comparable result as that of the HVS and thus were used for sampling.
- 2.3.4 The portable direct reading dust meters used for the 1-hour TSP measurement during this reporting period are summarised in **Table 2.3**.

Table 2.3 Construction Dust Monitoring Equipment

Measuring Parameter	Monitoring Equipment	Brand and Model	Serial Number	Date of Calibration
1-hour	Portable direct	Sibata Digital Dust Monitor	A.005.09a	15 Aug 2023
TSP	reading dust meter	(Model No. LD-3B)	A.005.16a	26 Apr 2023
	(1-hour TSP)			

- 2.3.5 The portable direct reading dust meters were calibrated at a 1-year interval against a High-Volume Sampler, TE-5170. Calibration Certificates are provided in **Appendix D**.
- 2.3.6 The 1-hour TSP measurement followed manufacturer's instruction manual. Zeroing the portable direct reading meter was proceed prior to each measurement to ensure maximum accuracy of concentration measurements.
- 2.3.7 The 1-hour TSP was sampled by drawing air into the portable direct reading dust meter where particular concentrations were measured instantaneously with an in-built silicon detector sensing light scattered by the particulates in the sampled air. Continuous TSP levels were indicated and logged by a built-in data logger compatible with Windows based program to facilitate data collection, analysis and reporting.

2.3.8 Location of the designated dust monitoring station is described in **Table 2.4** and shown on **Appendix E**.

Table 2.4 Construction Dust Monitoring Location

Monitoring Station ID	Dust Monitoring Station
DM1	Siu Ho Wan Government Maintenance Depot

2.3.9 Dust impact monitoring was carried out on 5, 11, 16, 21 and 27 December 2023 during this reporting period. Schedule of the dust impact monitoring for this reporting period is provided in **Appendix F**. It is observed that major dust sources are from North Lantau Highway and Cheung Tung Road. Results for the 1-hour TSP are summarised in **Table 2.5**. Measurement data are shown in **Appendix G**.

Table 2.5 Summary of 1-hour TSP Monitoring Results

Monitoring Location	Range (µg/m³)	Action Level (μg/m³)	Limit Level (µg/m³)	No. of Exceedances
DM1	59.6 – 64.1	294.7	500.0	0

2.3.10 Schedule of the dust impact monitoring for next reporting period is provided in **Appendix H**.

2.4 WASTE MANAGEMENT

- 2.4.1 Waste generated from this Project includes inert C&D materials and non-inert C&D materials. Non-inert C&D would include, but not limited to general refuse, bamboo, timber, vegetation, paper and plastic that cannot be transported to public fill.
- 2.4.2 Quantities of different types of waste generated in this reporting month are summarised in **Table 2.6**. Details of cumulative waste management data are shown in **Appendix I**.

Table 2.6 Quantities of Waste Generated during this Reporting Period

				Quantity (to	onnes)			
	Inert C&D	Materials			Non-inert	C&D Mate	rials	
Poporting		Disposed		Others, i.e.	Red	ycled Mate	rials (tonnes)
Reporting period	Disposed as Public Fill	to Sorting Facilities	Chemical Waste	General Refuse disposed at Landfill	Paper / Cardboard	Plastics	Metals	Yard Waste
Dec 2023	239.0	0	0	1.79	0	0	17.311	0

Note: The cut-off date of waste flow table in this reporting month is 23 December 2023.

- 2.4.3 All dump trucks for C&D materials transportation and disposal were equipped with Global Positioning System (GPS) for real time tracking and monitoring their travel routings and parking locations in order to avoid illegal dumping or landfilling of C&D materials.
- 2.4.4 The GPS data including travel routings of dump trucks was reviewed by the ET and IEC, and no illegal dumping activities were suspected.

3 SUMMARY OF COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTIONS

- 3.1.1 The Environmental Complaint Handling Procedure is presented in **Appendix J**.
- 3.1.2 Should non-compliance of the air quality criteria occur, action in accordance with the Event and Action Plan in **Appendix K** shall be carried out.
- 3.1.3 No Action and Limit Levels exceedance of 1-hour TSP was recorded during this reporting period.
- 3.1.4 No complaints, notification of summons and prosecutions received during December 2023.
- 3.1.5 Statistics on complaints, notifications of summons and successful prosecutions are summarized in **Appendix L**.

4 EM&A SITE INSPECTION

4.1.1 Site inspections were conducted on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures under the Contract. Four (4) site inspections were conducted on 4, 11, 18 and 27 December 2023 for this reporting period. One joint inspection with IEC was also conducted on 11 December 2023. Key observations during the site inspections are summarized in **Table 4.1**.

Table 4.1 Site Observations

Date	Observation/ Recommendation	Follow-up Status
4 December 2023	Gully was not adequately covered or temporarily sealed to prevent silt, construction materials or debris from getting into the drainage system. Target completion date: 6 December 2023.	Earth bunds / sand bags have been set up at the gully as well as the grout producing area to prevent silt, construction materials or debris from discharging into the gully. Close out date: 5 December 2023.
11 December 2023	Nil	Nil
18 December 023	Nil	Nil
27 December 2023	Nil	Nil

4.1.2 The mitigation measures detailed in the EIA Study Report, Environmental Permit, contract documents and the EM&A Manual are implemented as much as practical during this reporting period. The Implementation Status of the Environmental Mitigation Measures (EMIS) is presented in **Appendix M**.

5 FUTURE KEY ISSUES

- 5.1.1 Works to be conducted in the coming reporting months are:
 - (1) Site Clearance and Hoarding
 - (2) Pre-drilling Works
 - (3) Bored Piling Works

6 CONCLUSION AND RECOMMENDATIONS

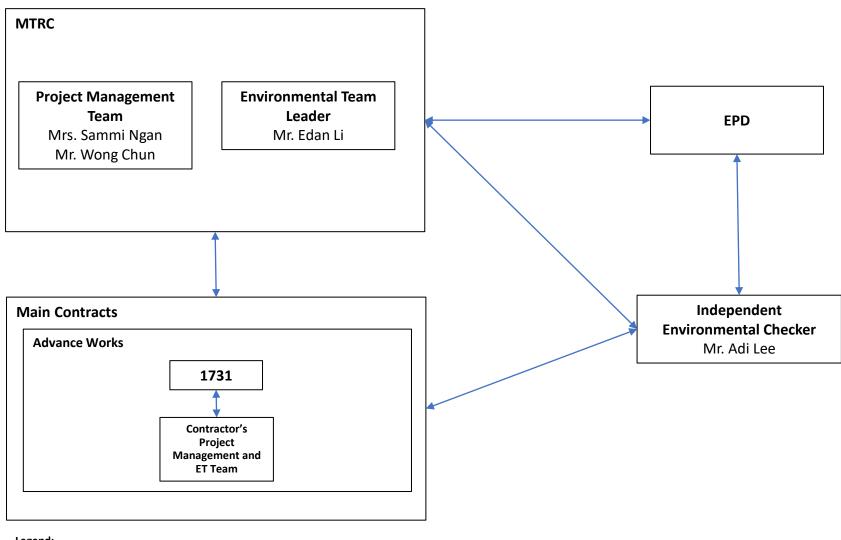
- 6.1.1 This monthly EM&A Report presented the EM&A works carried out during the reporting period from 1 to 31 December 2023.
- 6.1.2 Air quality impact monitoring was carried out during the report period. No exceedance of the Action and Limit Levels was recorded for air quality impact monitoring during this reporting period.
- 6.1.3 Four (4) weekly site inspections have been conducted during this reporting period. A joint site inspection with the IEC was conducted on 11 December 2023. Observations were reported in the weekly inspection checklists. The environmental performance of the Project was considered satisfactory.
- 6.1.4 No complaints, notification of summons and prosecutions received during this reporting period.
- 6.1.5 The proposed mitigation measures were properly implemented and were considered effective and efficient in pollution control.

Appendix A Construction Programme

Appendix A Construction Programme

																										-
Construction Activities	ID				2021						2022							2023					20	24		
Construction Activities		J	F M	A M	٦	A S	0 1	l D	J F	M A I	И J J	I A	S 0	N D	J	F M	A M	JJ	A S	0 N E) J	F M A	MJ	J A	S 0	N D
Contract 1731 - Trail Pile for SHD Phase 1	1																									
Site Clearance & Hoarding	1.1																									
Bored Piling Works	1.3																									

Appendix B Project Organisation Chart



Legend:

Communication channel

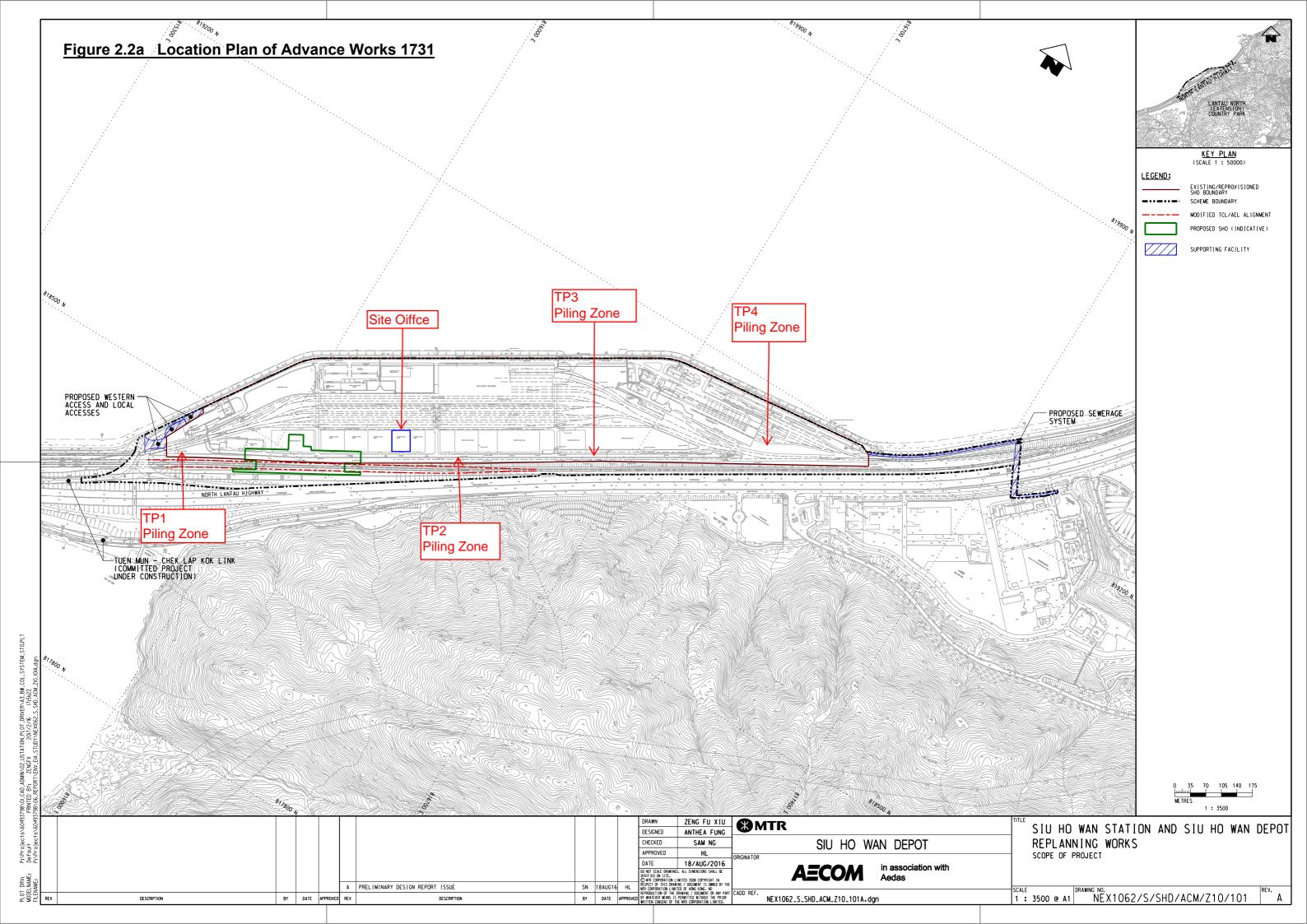
MTRC - Project Management Team									
Position	Name	Telephone							
Chief Construction Manager - OYB	Mrs. Sammi Ngan	2208 3753							
Senior Construction Mananger - Civil	Mr. Wong Chun	2208 3684							

MTRC - Environmental Team		
Position	Name	Telephone
Environmental Team Leader	Mr. Edan Li	2688 1179
Environmental Team Member	Mr. Cyrus Lau	2688 1585

Meinhardt Infrastructure and Envrionment Limited - IEC					
Position	Name	Telephone			
Independent Environmental Checker	Mr. Adi Lee	2859 5443			
IEC Team Member	Mr. Sylar Tsui	2859 5225			

Main Works Contract	Description	Contractor	Position	Name	Telephone
	Trail piles and site	Gammon	Senior Project Manager	Carl Chan	9275 9207
1731	formation for Siu Ho	Construction Ltd	Environmental Officer	Chris Tse	9127 7571
	Wan Depot Property		Environmental Team Leader	Alex Cheung	9832 5750

Appendix C Location Plan



Appendix D Calibration Certification of Portable Direct Reading Dust Meters

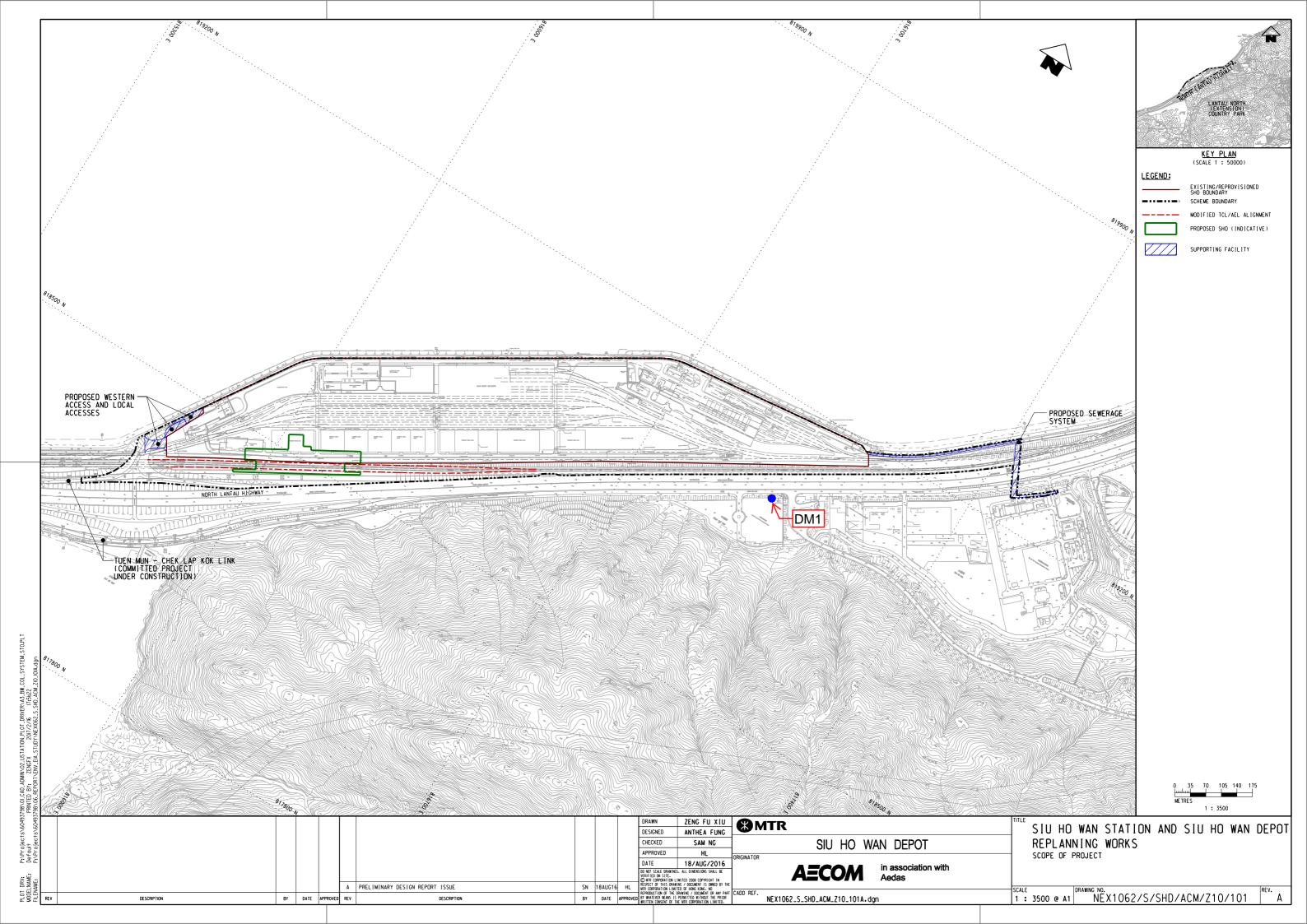
EQUIPMENT CALIBRATION RECORD

Type:			Laser Dus	t Monitor			
Manufactu	ırer/Brand:		SIBATA				
Model No.	:		LD-3				'
Equipment	t No.:		A.005.09a			,	
Sensitivity	Adjustment Sca	le Setting:	797 CPM				1
Operator:			WS CHAN				'
operator.			***************************************				,
Standard E	Equimment						
Equipmen	t:		High Volu	me Samp	er		
Venue:			Ma Wan (Chung Vill	age		
Model No.	:		TE-5170				_
Serial No.:			3383				
Last Calibr	ation Date:		4-Aug-23				•
Calibration	n Result						
Sensitivity	Adjustment Sca	le Setting (Refor	e Calibrati	on).		797	СРМ
-	Adjustment Sca					797	CPM
Scholarty	rajustilient sea	ie setting (/ irter	canbration	.,.		737	
Hour	Date	Time	Ambient (Condition	Concentration 1	Total Count 2	Count/
	(dd/mm/yy)		Temp (°C)	R.H.(%)	(mg/m3)		Minute(3)
	. , ,,,,		, ,	, ,	Y-axis		X-axis
1	15/08/23	9:00-10:00	32.0	80	0.038	1580	26.33
2	15/08/23	11:30-12:30	32.0	80	0.035	1360	22.67
3	15/08/23	13:50-14:50	32.0	80	0.041	1752	29.20
Note:	1 Monitoring	data was measu	red by Hig	h Volume	Sampler	•	
	(2) Total Count	was logged by L	aser Dust I	Monitor			
	③ Count/minu	te was calculate	ed by (Total	Count/60))		
By Linear F	Regression of Y c	on X					
,	Slope (K-factor)		0.0015				
Correlation coefficient:		0.9985					
Validity of Calibration Record:		15-Aug-24					
Remarks:							
					4/	_	
QC I	Reviewer:	Y.W. Fung	<u>-</u> S	ignature:	//	Date:	15-Aug-23

EQUIPMENT CALIBRATION RECORD

Type:			Laser Dus	t Monitor	•		
	nufacturer/Brand: SIBATA						
Model No.:			LD-3B				-
Equipmen	uipment No.: A.005.16a				-		
	y Adjustment Sca	le Setting:	521 CPM				•
,	,	Ü					-
Operator:	:		WS CHAN	l			-
Standard	Equimment						
Equipmer	nt:		High Volu	ıme Samn	ler		
Venue:			Pedestria				-
Model No	٠.		TE-5170	1111020			-
Serial No.			10273				-
	ration Date:		4-Apr-23				-
Last CallD	ration bate.		4-Whi-52				-
C.III	- D P						
Calibratio	n Kesult						
Sensitivity	y Adjustment Sca	le Setting (Befor	e Calibrati	on):		521	СРМ
-	, y Adjustment Sca					521	CPM
·	, .,	3 ()		,			_
Hour	Date	Time	Ambient	Condition	Concentration ①	Total Count 2	Count/
	(dd/mm/yy)		Temp (°C)	R.H.(%)	(mg/m3)		Minute ③
				, ,	Y-axis		X-axis
1	26/04/23	9:00-10:00	23.5	65	0.0490	1860	31.00
2	26/04/23	10:00-11:00	23.5	65	0.0500	1940	32.33
3	26/04/23	11:00-12:00	23.5	65	0.0520	2020	33.67
4	26/04/23	12:00-13:00	23.5	65	0.0540	2150	35.83
Note:	1 Monitoring	data was measu	red by Hig	h Volume	Sampler		
	2 Total Count	was logged by L	aser Dust I	Monitor			
	(3) Count/minu	ite was calculate	ed by (Total	ı Count/60	J)		
By Linear	Regression of Y	on X					
	Slope (K-factor)	:	0.0015				
	Correlation coe		0.9997		•		
Validity of	f Calibration Reco	ord:	26-∆	pr-24			
Tanaity O	. Sansration nect	J. G.	20 /	<u>γ' -</u> ¬	•		
Remarks:							
					9/		
QC	Reviewer:	Y.W. Fung	<u> </u>	Signature:	/	Date:	28-Apr-23

Appendix E Location Plan of Air Quality Monitoring Station



Appendix F Monitoring Schedule of This Reporting Period

Consultancy Agreement No.NEX/1062 Siu Ho Wan Station and Siu Ho Wan Depot Replanning Works - Advance Constuction Works Dust and Noise Monitoring Schedule in December 2023

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
				1-Dec	2-Dec
4-Dec	5-Dec	6-Dec	7-Dec	8-Dec	9-Dec
	1-hr Dust Monitoring				
11-Dec	12-Dec	13-Dec	14-Dec	15-Dec	16-Dec
1-hr Dust Monitoring					1-hr Dust Monitoring
18-Dec	19-Dec	20-Dec	21-Dec	22-Dec	23-Dec
			1-hr Dust Monitoring		
25-Dec	26-Dec	27-Dec	28-Dec	29-Dec	30-Dec
		1-hr Dust Monitoring			
	4-Dec 11-Dec 1-hr Dust Monitoring 18-Dec	4-Dec 5-Dec 1-hr Dust Monitoring 11-Dec 12-Dec 1-hr Dust Monitoring 18-Dec 19-Dec	4-Dec 5-Dec 6-Dec 1-hr Dust Monitoring 11-Dec 12-Dec 13-Dec 1-hr Dust Monitoring 18-Dec 19-Dec 20-Dec	4-Dec 5-Dec 6-Dec 7-Dec 1-hr Dust Monitoring 11-Dec 12-Dec 13-Dec 14-Dec 1-hr Dust Monitoring 18-Dec 19-Dec 20-Dec 21-Dec 1-hr Dust Monitoring 25-Dec 26-Dec 27-Dec 28-Dec	4-Dec 5-Dec 6-Dec 7-Dec 8-Dec 1-hr Dust Monitoring 13-Dec 14-Dec 15-Dec 1-hr Dust Monitoring 20-Dec 21-Dec 22-Dec 1-hr Dust Monitoring 1-hr Dust Monitoring 25-Dec 25-Dec 29-Dec

Appendix G Air Quality Monitoring Data

Impact Air Quality Monitoring Results

1-hour TSP Monitoring Results at Station - DM1 Siu Ho Wan Government Maintenance Deport

	Start	1st Hour	2nd Hour	3rd Hour	Action Level	Limit Level	Exceedance
	Time	Conc.	Conc.	Conc.	Conc.	Conc.	(Y/N)
Date	(hh:mm)	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(µg/m3)	(1/14)
5-Dec-23	13:00	64.1	62.3	60.7			N
11-Dec-23	13:05	61.1	60.2	61.8			N
16-Dec-23	13:10	59.6	61.1	60.2	294.7	500.0	N
21-Dec-23	13:00	63.8	63.1	62.7			N
27-Dec-23	13:00	61.6	60.0	62.9			N

Average 61.7
Min 59.6
Max 64.1

Appendix H Monitoring Schedule of Next Reporting Period

Consultancy Agreement No.NEX/1062 Siu Ho Wan Station and Siu Ho Wan Depot Replanning Works - Advance Constuction Works Tentative Dust and Noise Monitoring Schedule in January 2024

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

The schedule is subject to change due to unforeseeable circumstances (e.g. adverse weather, etc)

Appendix I Waste Flow Table

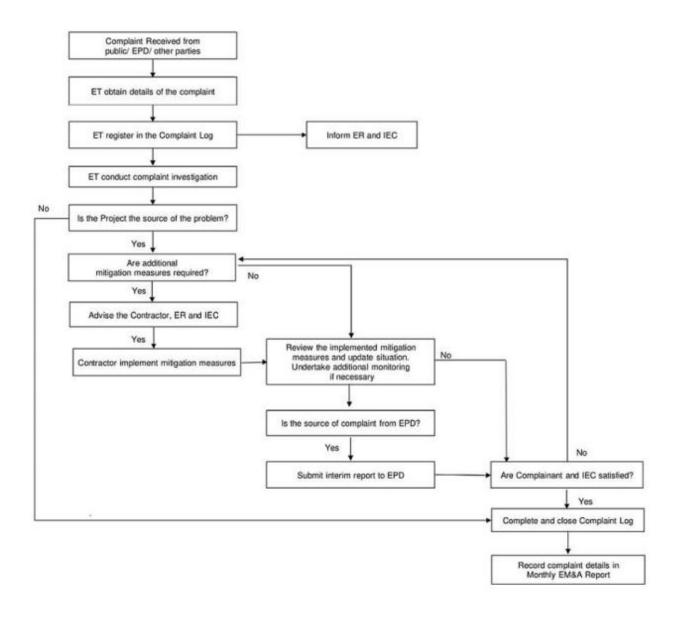
Monthly Summary Waste Flow Table

Project: Contract No. 1731 Trial Piles and Site Formation for Siu Ho Wan Depot Property Development - Phase 1

			Actual Quantities	of Inert C&D Mate	erials Generated				Actual (Quantities of Non-	-inert C&D Materia	als Generated	
Month	(a) Total Quantity Generated	(b) Hard Rock and Large Broken Concrete	(c) Reused in the Contract	(d) Reused in other Projects	(e) Disposed of as Public Fill	(f) Disposed in Sorting Facilities	(g) Imported Fill	(h) Metals	(i) Paper / cardboard packaging	(j) Plastics	(k) Chemical Waste	(l) Recyclable Yard Waste	(m) Others, i.e. General Refuse disposed of at Landfill
	(tonnes)	(m^3)	(m^3)	(m^3)	(tonnes)	(tonnes)	(m^3)	(tonnes)	(tonnes)	(tonnes)	(tonnes)	(tonnes)	(tonnes)
Jan-23	1.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.78
Feb-23	3.17	0.00	0.00	0.00	3.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Mar-23	38.11	0.00	0.00	0.00	37.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.61
Apr-23	210.97	0.00	0.00	0.00	210.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.81
May-23	42.00	0.00	0.00	0.00	40.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.66
Jun-23	264.55	0.00	0.00	0.00	192.85	67.46	0.00	0.00	0.00	0.00	0.00	0.00	4.24
Jul-23	247.19	0.00	0.00	0.00	238.99	7.00	0.00	0.00	0.00	0.00	0.00	0.00	1.20
Aug-23	426.08	0.00	0.00	0.00	417.46	7.41	0.00	0.00	0.00	0.00	0.00	0.00	1.21
Sep-23	270.42	0.00	0.00	0.00	269.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.34
Oct-23	172.46	0.00	0.00	0.00	171.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.98
Nov-23	910.88	0.00	0.00	0.00	907.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.78
Dec-23	240.79	0.00	0.00	0.00	239.00	0.00	0.00	17.31	0.00	0.00	0.00	0.00	1.79
Total	2828.40	0.00	0.00	0.00	2727.13	81.87	0.00	17.31	0.00	0.00	0.00	0.00	19.40

Appendix J Complaint Handling Procedure

Complaint Handling Procedure



Appendix K Event and Action Plan for Air Quality Monitoring

					ction					
Event		Environmental Team	Ir	ndependent Environmental Checker	E	Engineer's Representative		CONTRACTOR		
ACTION LEVEL										
one sample	 2. 3. 4. 	inform the Contractor, IEC and ER; Identify source(s), investigate the causes of exceedance and propose remedial measures; and	 2. 3. 4. 	Check monitoring data submitted by the ET; Check Contractor's working method; Discuss with ET, ER and Contractor on possible remedial measures; and Review and advise the ET and ER on the effectiveness of the proposed remedial	1.	Confirm receipt of notification of exceedance in writing.	 2. 3. 	Identify source(s), investigate the causes of exceedance and propose remedial measures; Implement remedial measures; and Amend working methods agreed with the ER as appropriate.		
Exceedance for two or more consecutive samples	 3. 4. 	confirm findings; If exceedance is confirmed, informed Contractor, IEC and ER; Identify source(s), investigate the causes of exceedance and propose remedial measures; Increase monitoring frequency to daily; Advise the Contractor and ER on the effectiveness of the proposed remedial measures; Discuss with IEC and Contractor on remedial actions required; If exceedance continues, arrange meeting with Contractor, IEC and ER to discuss the remedial measures to be taken; and	1. 2. 3. 4.	Check monitoring data submitted by the ET; Check Contractor's working method; Discuss with ET, ER and Contractor on possible remedial measures; Review and advise the ET and ER on the effectiveness of the proposed remedial measures; and Supervise implementation of remedial measures.	1. 2. 3.	notification of exceedance in writing;	 1. 2. 4. 	Identify source(s) and investigate the causes of exceedance; Submit proposals for remedial measures to the ER, ET and IEC within three working days of notification for agreement; Implement the agreed proposals; and Amend proposal as appropriate.		

			tion	
Event	Environmental Team	Independent Environmental Checker	Engineer's Representative	CONTRACTOR
LIMIT LEVEL				
Exceedance for one sample	 Repeat measurement to confirm findings; If exceedance is confirmed, inform the Contractor, IEC, EPD and ER; Identify source(s), investigate the causes of exceedance and propose remedial; Increase monitoring frequency to daily; and Discuss with the ER, IEC and Contractor on the remedial measures and assess effectiveness. 	 Check monitoring data submitted by the ET; Check Contractor's working method; Discuss with the ET, ER and Contractor on possible remedial measures; Review and advise the ET and ER on the effectiveness of the proposed remedial measures; and Supervise implementation of remedial measures. 	 Confirm receipt of notification of exceedance in writing; Review and agree on the remedial measures proposed by the Contractor; and Ensure remedial measures properly implemented. 	 Identify source(s) and investigate the causes of exceedance; Take immediate action to avoid further exceedance; Submit proposals for remedial measures to ER, ET and IEC within three working days of notification for agreement; Implement the agreed proposals; and Amend proposal if appropriate.
Exceedance for two or more consecutive samples	 Repeat measurement to confirm findings; If exceedance is confirmed, inform IEC, ER, Contractor and EPD; Identify source(s), investigate the causes of exceedance and propose remedial measures; Increase monitoring frequency to daily; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Arrange meeting with IEC and ER to discuss the remedial actions to be taken; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; and If exceedance stops, cease additional monitoring. 	 Check monitoring data submitted by the ET; Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; and Supervise the implementation of remedial measures. 	 Confirm receipt of notification of exceedance in writing; In consultation with the ET and IEC, agree with the Contractor on the remedial measures to be implemented; Supervise the implementation of remedial measures; and If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated. 	 Identity source(s) and investigate the causes of exceedance; Take immediate action to avoid further exceedance; Submit proposals for remedial measures to the ER, IEC and ET within three working days of notification for agreement; Implement the agreed proposals; Revise and resubmit proposals if problem still not under control; and Stop the relevant portion of works as determined by the ER until the exceedance is abated.

Appendix L Statistics on Complaint, Notification of Summons and Successful Prosecution

Statistics on Complaints, Notification of Summons and Successful Prosecution

Table F1 Statistical Summary of Environmental Complaint

Paparting Pariod	Environmental Complaint Statistics						
Reporting Period	Frequency	Cumulative	Complaint Nature				
1 December 2023							
to	0	0	N/A				
31 December 2023							

Table F2 Statistical Summary of Environmental Non-compliance

Paparting Pariod	Environmental Non-compliance Statistics						
Reporting Period	Frequency	Cumulative	Details				
1 December 2023							
to	0	0	N/A				
31 December 2023							

Table F3 Statistical Summary of Environmental Summons

Paparting Pariod	Environmental Summons Statistics					
Reporting Period	Frequency	Cumulative	Details			
1 December 2023						
to	0	0	N/A			
31 December 2023						

Table F4 Statistical Summary of Environmental Prosecution

Reporting Period	Environmental Prosecution Statistics						
Reporting Period	Frequency	Cumulative	Details				
1 December 2023							
to	0	0	N/A				
31 December 2023							

Appendix M Environmental Mitigation Implementation Schedule

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures and Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
Air Qual	ity (Construction Phase)						
S3.8.1	Watering once per hour on active works areas, exposed areas and unpaved haul roads during working hours.	To minimize dust impacts	Contractor	All works area	Construction phase	Air Pollution Control Ordinance (APCO)	Implemented
S3.8.9	 Implementation of dust suppression measures stipulated in the Air Pollution Control (Construction Dust) Regulation and good site practices should be carried out to further minimize construction dust impact: Use of regular watering, with complete coverage, to reduce dust emissions from exposed site surfaces and unpaved roads, particularly during dry weather. Use of frequent water for particularly dusty construction areas and areas close to ASRs. Side enclosure and covering of any aggregate or dusty material storage piles to reduce emissions. Where this is not practicable owing to frequent usage, watering should be applied to aggregate fines. Open stockpiles should be avoided or covered. Where possible, prevent placing dusty material storage piles near ASRs. Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations. Establishment and use of vehicle wheel and body washing facilities at the exit points of the site. Provision of wind shield and dust extraction units or similar dust mitigation measures at the loading 	To minimize dust impacts	Contractor	All works area	Construction phase	Air Pollution Control Ordinance (APCO)	Implemented

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures and Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	points, and use of water sprinklers at the loading area where dust generation is likely during the loading process of loose material, particularly in dry seasons/ periods. Imposition of speed controls for vehicles on unpaved site roads. 8 kilometres per hour is the recommended limit. Where possible, routing of vehicles and positioning of construction plant should be at the maximum possible distance from ASRs. 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.	Address					
Noise Im	pact (Construction Phase)						
S4.5.16	Implement the following good site	To minimise	Contractor	All works	Construction	TM-EIAO	Implemented
	practices as far as practicable:Only well-maintained plant should be operated on-site and plant should be	impacts to surrounding habitats		area	phase		

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures and Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	 serviced regularly during the construction program. Silencers or mufflers on construction equipment should be utilised and should be properly maintained during the construction program. Mobile plant, is any, should be sited as far from NSRs as possible. Machine and plant (such as trucks) 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 should, wherever possible, be orientated so that the noise is directed away from the nearby NSRs. Material stockpiles and other structures should be effectively utilised, wherever practicable, in screening noise from on-site construction activities. 						
S4.5.17	Adopting quiet PME is recommended. The type of quiet PME adopted in this assessment is for reference only. The contractors may adopt alternative quiet PME as long as it can be demonstrated that they would not result in construction noise impacts worse than those predicted in this assessment	To reduce impact to affected NSRs	Contractor	All works area	Construction phase	TM-EIAO	Implemented
S4.5.19	Use of noise barriers and noise enclosures to provide screening for construction plant where recommended.	To reduce impact to affected NSRs	Contractor	All works area	Construction phase	TM-EIAO	N/A
	uality Impact (Construction Phase)						
S5.8.4	Surface and road run-off from construction sites should be discharged into storm drains via adequately	To minimise impact from	Contractor	All works area	Construction phase	Water Pollution Control	Implemented after observation

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures and Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	designed sand/silt removal facilities such as sand traps, silt traps and sedimentation basins. Channels or earth bunds or sand bag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Perimeter channels should be provided on site boundaries where necessary to intercept storm run-off from outside the site so that it will not wash across the site. Catchpits and perimeter channels should be constructed in advance of site formation works and earthworks.	construction site run-off				Ordinance (WPCO), Technical Memorandum on EIA Ordinance (EIAO-TM), ProPECC PN 1/94, Technical Memorandum on Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Waters (TM-DSS)	
S5.8.5	Silt removal facilities, channels and manholes should be maintained and the deposited silt and grit should be removed regularly, at the onset of and after each rainstorm to prevent local flooding. Any practical options for the diversion and realignment of drainage should comply with both engineering and environmental requirements in order to provide adequate hydraulic capacity of all drains.	To minimise impact from construction site run-off	Contractor	All works area	Construction phase	WPCO, EIAOTM, ProPECC PN 1/94, TMDSS	Implemented
S5.8.6	Construction works should be programmed to minimize soil excavation works in rainy seasons (April to September). If soil excavation cannot be avoided in these months or at any time of year when rainstorms are likely, for the purpose of preventing soil erosion,	To minimise impact from construction site run-off	Contractor	All works area	Construction phase	WPCO, EIAOTM, ProPECC PN 1/94, TMDSS	Implemented

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures and Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
05.0.7	temporary exposed slope surfaces should be covered e.g. by tarpaulin, and temporary access roads should be protected by crushed stone or gravel, as excavation proceeds. Intercepting channels should be provided (e.g. along the crest / edge of excavation) to prevent storm runoff from washing across exposed soil surfaces. Arrangements should always be in place in such a way that adequate surface protection measures can be safely carried out well before the arrival of a rainstorm.					MADOO	
S5.8.7	Earthworks final surfaces should be well compacted and the subsequent permanent work or surface protection should be carried out immediately after the final surfaces are formed to prevent erosion caused by rainstorms. Appropriate drainage like intercepting channels should be provided where necessary.	To minimise impact from construction site run-off	Contractor	All works area	Construction phase	WPCO, EIAOTM, ProPECC PN 1/94, TMDSS	Implemented
S5.8.8	Measures should be taken to minimize the ingress of rainwater into trenches. If excavation of trenches in wet seasons is necessary, they should be dug and backfilled in short sections. Rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities.	To minimise impact from construction site run-off	Contractor	All works area	Construction phase	WPCO, EIAOTM, ProPECC PN 1/94, TMDSS	Implemented
S5.8.9	If bentonite slurries are required for any construction works, they should be reconditioned and reused wherever practicable to minimise the disposal volume of used bentonite slurries. Temporary enclosed storage locations should be provided on-site for any unused bentonite that needs to be	To minimise impact from construction site run-off	Contractor	All works area	Construction phase	WPCO, EIAOTM, ProPECC PN 1/94	N/A

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures and Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	transported away after the related construction activities are completed. Requirements as stipulated in ProPECC Note PN 1/94 should be closely followed when handling and disposing bentonite slurries.						
S5.8.10	Open stockpiles of construction materials (e.g. aggregates, sand and fill material) on sites should be covered with tarpaulin or similar fabric during rainstorms.	To minimise impact from construction site run-off	Contractor	All works area	Construction phase	WPCO, EIAOTM, ProPECC PN 1/94, TMDSS	Implemented
S5.8.11	Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers. Discharge of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system.	To minimise impact from construction site run-off	Contractor	All works area	Construction phase	WPCO, EIAOTM, ProPECC PN 1/94, TMDSS	Implemented
\$5.8.12	Good site practices should be adopted to remove rubbish and litter from construction sites so as to prevent the rubbish and litter from spreading from the site area. It is recommended to clean the construction sites on a regular basis.	To minimise impact from construction site run-off	Contractor	All works area	Construction phase	WPCO, EIAOTM, ProPECC PN 1/94, TMDSS	Implemented
S5.8.12	The following mitigation measures related to the transportation of the sediment should be implemented to minimize the potential water quality impact: • Loading of the excavated sediment to the barge shall be controlled to avoid splashing and overflowing of the sediment slurry to the surrounding water.	To minimise impact from transportation of sediment	Contractor	Barging point and barges	Construction phase	WPCO, EIAOTM, ProPECC PN 1/94	N/A

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures and Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	 The barge transporting the sediments to the designated disposal sites shall be equipped with tight fitting seals to prevent leakage and shall not be filled to a level that would cause overflow of materials or laden water during loading or transportation. Monitoring of the barge loading shall be conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels shall be equipped with automatic self-monitoring devices as specified by the Director of Environmental Protection (DEP). 						
S5.8.13	There is a need to apply to EPD for a discharge licence for discharge of effluent from the construction site under the WPCO. The discharge quality must meet the requirements specified in the discharge licence. All the runoff and wastewater generated from the works areas should be treated so that it satisfies all the standards listed in the TMDSS. The beneficial uses of the treated effluent for other onsite activities such as dust suppression, wheel washing and general cleaning etc., can minimise water consumption and reduce the effluent discharge volume. If monitoring of the treated effluent quality from the works areas is required during the construction phase of the Project, the monitoring should be carried out in accordance with the relevant WPCO licence.	To minimize impact from effluent discharge	Contractor	All works area	Construction phase	WPCO, EIAOTM, ProPECC PN 1/94, TMDSS	Implemented

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures and Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
S5.8.14	Water for Bored Piling Works Water used in ground boring and drilling for site investigation or rock / soil anchoring should be re-circulated as far as practicable after sedimentation. When there is a need for final disposal, the wastewater should be discharged into storm drains via silt removal facilities.	To minimise impact from construction site run-off	Contractor	All works area	Construction phase	WPCO, EIAOTM, ProPECC PN 1/94, TMDSS	Implemented
S5.8.15	Wheel Washing Water Wash-water from wheel washing facility should have been treated by silt removal facilities before discharging into storm drains. Treated wash-water could be used as dust suppression measures as far as practicable. The section of access road between the wheel washing bay and the public road should be paved to reduce vehicle tracking of soil and to prevent silty water from entering public road and drains.	To minimise impact from construction site run-off	Contractor	All works area	Construction phase	WPCO, EIAOTM, ProPECC PN 1/94, TMDSS	Implemented
S5.8.16	Construction Works near Channelized Watercourse / Ditch For minimization of potential water quality impacts from the works to nearby inland channelized watercourse/ditch near SHWSTW, the practices outlined in ProPECC Note PN 1/94 "Construction Site Drainage" and ETWB TC (Works) No.5/2005 "Protection of natural streams / rivers from adverse impacts arising from construction works" should be adopted where applicable. Relevant mitigation measures are listed below: The use of less or smaller construction plants may be specified in works area close to the inland water bodies.	To minimise impact from construction site run-off	Contractor	All works area	Construction phase	WPCO, EIAOTM, ProPECC PN 1/94, TMDSS	Implemented

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures and Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	 Temporary storage of material (e.g. equipment, filling materials, chemicals and fuel) and temporary stockpile of construction materials should be located well away from watercourse/ditch when carrying out of the construction works. Stockpiling of construction materials and dusty materials should be covered and located away from any watercourse/ditch. Construction debris and spoil should be covered up and / or disposed of as soon as possible to avoid being washed into the nearby water receivers. Construction activities, which generate large amount of wastewater, should be carried out in a distance away from the watercourse/ditch, where practicable. Construction effluent, site run-off and sewage should be properly collected and / or treated 						
S5.8.17 -	Accidental Spillage of Chemicals The Contractor should register as a	To minimise impact from	Contractor	All works area	Construction phase	WPCO, EIAOTM,	Implemented
S5.8.19	chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste)(General) Regulation, should be observed and complied. • Any service shop and maintenance facilities should be located on hard standings within a bunded area, and sumps and oil interceptors should be	accidental spillage				Waste Disposal Ordinance (WDO), Waste Disposal (Chemical Waste) (General) Regulation	

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures and Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	provided. Maintenance of vehicles and equipment involving activities with potential for leakage and spillage should only be undertaken within the areas appropriately equipped to control these discharges. • Disposal of chemical wastes should be carried out in compliance with the Waste Disposal Ordinance. The Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes published under the Waste Disposal Ordinance details the requirements to deal with chemical wastes. General requirements are given as follows: • Suitable containers should be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport. • Chemical waste containers should be suitably labelled, to notify and warn the personnel who are handling the wastes, to avoid accidents. • Storage area should be selected at a safe location on site and adequate space should be	7.000					
\$5.8.20 - \$5.8.21	allocated to the storage area. Sewerage Effluent from Construction Workforce No discharge of sewage to the storm water system and marine water will be allowed. Adequate and sufficient portable chemical toilets should be provided in the works areas to	To minimise impact from workforces sewage effluent	Contractor	All works area	Construction phase	WPCO, EIAO- TM, TM-DSS	Implemented

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures and Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	 handle sewage from construction workforce. A licensed waste collector should be employed to clean and maintain the chemical toilets on a regular basis. Notices should be posted at conspicuous locations to remind the workers not to discharge any sewage or wastewater into the surrounding environment. 						
S5.8.22 - S5.8.24	Groundwater from Contaminated Areas, Contaminated Site Runoff and Wastewater from Land Decontamination • Remediation of contaminated land should be properly conducted following the recommendations of Land Contamination Assessment to be conducted in future. Any excavated contaminated material and exposed contaminated surface should be properly housed and covered to avoid generation of contaminated runoff. Open stockpiling of contaminated materials should not be allowed. Any contaminated runoff or wastewater generated from the land decontamination processes should be properly collected and diverted to wastewater treatment facilities (WTF) as necessary. The WTF shall deploy suitable treatment processes (e.g. oil interceptor / activated carbon) to reduce the pollution level to an acceptable standard and remove any prohibited substances (such as total petroleum hydrocarbon) to an undetectable range. All treated	To minimise impact from groundwater from contaminated areas, contaminated site run-off/wastewater from land decontamination	Contractor	All works area confirmed with land contamination	Construction Phase	WPCO, EIAOTM, TM- DSS, Guidance Note for Contaminated Land Assessment	N/A

EIA	Recommended Mitigation Measures	Objectives of the	Implementation	Location of	Implementation	Requirements	Implementation
Ref.		Recommended	Agent	the Measures	Stage		Status
		Measures and					
		Main Concern to					
		Address					
	effluent from the wastewater						
	treatment system shall meet the						
	requirements as stated in TM-DSS						
	and should be either discharged into						
	the foul sewers or tankered away for						
	proper disposal.						
	No direct discharge of groundwater						
	from contaminated areas should be						
	adopted. Prior to any excavation						
	works within the potentially						
	contaminated areas, the baseline						
	groundwater quality in these areas						
	should be reviewed based on the						
	past relevant site investigation data and any additional groundwater						
	quality measurements to be						
	performed with reference to						
	Guidance Note for Contaminated						
	Land Assessment and Remediation						
	and the review results should be						
	submitted to EPD for examination. If						
	the review results indicated that the						
	groundwater to be generated from						
	the excavation works would be						
	contaminated, this contaminated						
	groundwater should be either						
	properly treated or properly						
	recharged into the ground in						
	compliance with the requirements of						
	the TM-DSS. If wastewater treatment						
	is to be deployed for treating the						
	contaminated groundwater, the						
	wastewater treatment unit shall						
	deploy suitable treatment processes						
	(e.g. oil interceptor / activated						
	carbon) to reduce the pollution level						
	to an acceptable standard and						
	remove any prohibited substances						

EIA Ref.	Recommended Mitigation Measures	Objectives of the	Implementation	Location of	Implementation	Requirements	Implementation
Rei.		Recommended Measures and	Agent	the Measures	Stage		Status
		Main Concern to					
		Address					
	(such as total petroleum						
	hydrocarbon) to an undetectable						
	range. All treated effluent from the						
	wastewater treatment plant shall						
	meet the requirements as stated in						
	the TM-DSS and should be either						
	discharged into the foul sewers or						
	tankered away for proper disposal.						
	If deployment of wastewater						
	treatment is not feasible for handling the contaminated groundwater,						
	groundwater recharging wells should						
	be installed as appropriate for						
	recharging the contaminated						
	groundwater back into the ground.						
	The recharging wells should be						
	selected at places where the						
	groundwater quality will not be						
	affected by the recharge operation						
	as indicated in section 2.3 of TM-						
	DSS. The baseline groundwater						
	quality should be determined prior to						
	the selection of the recharge wells,						
	and submit a working plan to EPD for						
	agreement. Pollution levels of						
	groundwater to be recharged shall						
	not be higher than pollutant levels of						
	ambient groundwater at the recharge						
	well. Groundwater monitoring wells should be installed near the recharge						
	points to monitor the effectiveness of						
	the recharge wells and to ensure that						
	no likelihood of increase of						
	groundwater level and transfer of						
	pollutants beyond the site boundary.						
	Prior to recharge, free products						
	should be removed as necessary by						
	installing the petrol interceptor.						

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures and Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	The Contractor should apply for a discharge licence under the WPCO through the Regional Office of EPD for groundwater recharge operation or discharge of treated groundwater						
Waste M	lanagement Implication (Construction Phase)		L			
\$7.5.3	Recommendations for good site practices during the construction phase include: Nomination of approved personnel, such as a site manager, to be responsible for implementation of good site practices, arrangements for waste collection and effective disposal to an appropriate facility. Training of site personnel in site cleanliness, concepts of waste reduction, reuse and recycling, proper waste management and chemical waste handling procedures. Provision of sufficient waste reception/ disposal points, and regular collection of waste. Adoption of appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers. Provision of regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors. Adoption of a recording system for the amount of wastes generated, recycled and disposed (including the disposal sites).	To avoid and minimize impacts arising from waste management	Contractor	All works area	Construction phase	Waste Disposal Ordinance (WDO) and Public Cleansing and Prevention of Nuisances Regulation (Cap. 132BK)	Implemented

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures and Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	Preparation of Waste Management Plan (WMP), as part of the Environmental Management Plan (EMP).						
S7.5.4	 Recommendations to achieve waste reduction are as follow: Segregate and store different types of construction related waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal. Provide separate labelled bins to segregate recyclable waste such as aluminium cans from other general refuse generated by the work force, and to encourage collection by individual collectors. Recycle any unused chemicals or those with remaining functional capacity. Maximise the use of reusable steel formwork to reduce the amount of C&D materials. Adopt proper storage and site practices to minimise the potential for damage to, or contamination of construction materials. Plan the delivery and stock of construction materials carefully to minimise the amount of waste generated. Minimize over ordering and wastage through careful planning during purchasing of construction materials. 	To minimize waste generation	Contractor	All works area	Construction phase	WDO	Implemented
S7.5.6	To minimise the impact resulting from collection and transportation of C&D materials as far as practicable, C&D	To minimise the disposal of C&D waste	Contractor	All works area	Construction phase	WDO	Implemented

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures and Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	waste, such as wood, plastic, steel and other metals should be reused or recycled and, as a last resort, disposed to landfill. A suitable area should be designated within the site for temporary stockpiling of C&D materials and to facilitate the sorting process.						
S7.5.6	Within the stockpile areas, the following measures should be taken to control potential environmental impacts or nuisance: • Proper handling and storage of waste such as soil by means of covers and/or water spraying system to minimise the potential environmental impact and to prevent materials from wind-blown or being washed away. • Covering materials during heavy rainfall. • Locating stockpiles to minimise potential visual impacts. • Minimising land intake of stockpile areas as far as possible. • Adopting GPS or equivalent system for tracking and monitoring of all dump trucks engaged for the Project in recording their travel routings and parking locations to prohibit illegal dumping and landfilling of C&D materials. • Keeping record and analysis of data collected by GPS or equivalent system related to travel routings and parking locations of dump trucks engaged on site	To avoid and minimize impacts arising from waste management	Contractor	All works area	Construction phase	WDO	Implemented

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures and Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
S7.5.7 - S7.5.9	General refuse should be stored in enclosed bins or compaction units separate from C&D materials and chemical waste. A reputable waste collector should be employed by the contractor to remove general refuse from the site, separately from C&D materials and chemical wastes. An enclosed and covered area is preferred to reduce the occurrence of 'wind blown' light materials. The recyclable component of general refuse, such as aluminium cans, paper and cleansed plastic containers shall be separated from other waste. Provision and collection of recycling bins for different types of recyclable waste shall be set up by the Contractor. The Contractor shall also be responsible for arranging recycling companies to collect these materials. The Contractor shall carry out an education programme for workers in avoiding, reducing, reusing and recycling of materials generation. Posters and leaflets advising on the use of the bins shall also be provided in the sites as reminders.	To avoid and minimize impacts arising from waste management	Contractor	All works area	Construction phase	WDO	Implemented
\$7.5.10 - \$7.5.12	If chemical wastes were to be produced at the construction site, the Contractor would be required to register with the EPD as a Chemical Waste Producer, and to follow the guidelines stated in the Code of Practice on the Packaging,	To avoid and minimize impacts arising from waste management	Contractor	All works area	Construction phase	WDO	Implemented

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures and Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
\$7.5.13 - \$7.5.14	Labelling and Storage of Chemical Wastes. Appropriate containers with proper labels should be used for storage of chemical wastes. Chemical wastes should be collected and delivered to designated outlet by a licensed 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 CWTC, or another licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation. Any unused chemicals or those with remaining functional capacity should be collected for reuse as far as practicable. The sediment should be excavated, handled, transported and disposed of in a manner that would minimise adverse environmental impacts. For minimization of sediment disposal, beneficial reuse will be considered on site as far as practicable during the construction stage before the disposal of excavated sediment. Requirements of the Air Pollution Ordinance (Construction Dust) Regulation, where relevant, shall be adhered to during excavation, transportation and disposal of sediments. In order to minimise the exposure to	To avoid and minimize impacts arising from waste management	Contractor	All works area	Construction phase	APCO EDO	N/A
	contaminated materials, workers shall, when necessary, wear appropriate	minimize impacts arising from	2535.01	area	phase		

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures and Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	personal protective equipments (PPE) when handling contaminated sediments. Adequate washing and cleaning facilities shall also be provided on site.	waste management					
S7.5.16	For off-site disposal, the basic requirements and procedures specified under PNAP No. 252 (ADV-21) shall be followed. Marine Fill Committee (MFC) of CEDD is managing the disposal facilities in Hong Kong for the excavated sediment, while EPD is the authority of issuing marine dumping permit under the Dumping at Sea Ordinance (DASO).	To avoid and minimize impacts arising from waste management	Contractor	All works area	Construction phase	WDO, DASO, ADV-21	N/A
S7.5.17	For the purpose of site allocation and application of marine dumping permit and if considered necessary by EPD (Marine Dumping Section), separate SSTP shall be submitted to EPD for agreement under DASO. Additional SI works, based on the SSTP, shall then be carried out in order to confirm the disposal arrangements of the excavated sediment. A Sediment Quality Report (SQR), reporting the chemical and biological screening results and the estimated quantities of sediment under different disposal options, shall then be submitted to EPD for agreement under DASO.	To avoid and minimize impacts arising from waste management	Contractor	All works area	Construction phase	WDO, DASO, ADV-21	N/A
S7.5.18	To ensure disposal space is allocated for the Project, the Project Proponent should be responsible for obtaining agreement from MFC on the allocation of the disposal site. The contractor(s), on the other hand, should be responsible for the application of the marine dumping permit under DASO from EPD for the sediment disposal.	To avoid and minimize impacts arising from waste management	Project Proponent and Contractor	All works area	Construction phase	WDO, DASO, ADV-21	N/A

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures and Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
S7.5.19	The excavated sediments is expected to be loaded onto the barge at public barging point of which the exact location will be determined by the contractor(s) and agreed by EPD/CEDD and transported to the designated disposal sites allocated by MFC. The excavated sediment would be disposed of according to its determined disposal options and PNAP No. 252 (ADV-21).	To avoid and minimize impacts arising from waste management	Project Proponent and Contractor	All works area	Construction phase	WDO, DASO, ADV-21	N/A
S7.5.20	Stockpiling of contaminated sediments shall be avoided as far as possible. If temporary stockpiling of contaminated sediments is unavoidable, the excavated sediment shall be covered by tarpaulin and the area shall be placed within earth bunds or sand bags to prevent leachate from entering the ground, nearby drains and/or surrounding water bodies. The stockpiles shall be completely paved or covered by linings in order to avoid contamination to underlying soil or groundwater. Separate and clearly defined areas shall be provided for stockpiling of contaminated and uncontaminated materials. Leachate, if any, shall be collected and discharged according to the Water Pollution Control Ordinance (WPCO).	To avoid and minimize impacts arising from waste management	Contractor	All works area	Construction phase	WPCO	N/A
S7.5.21	In order to minimise the potential odour / dust emissions during excavation and transportation of the sediment, the excavated sediments shall be wetted during excavation / material handling and shall be properly covered when placed on trucks or barges. Loading of the excavated sediment to the barge shall be controlled to avoid splashing and	To avoid and minimize impacts arising from waste management	Contractor	All works area	Construction phase	WDO, APCO	N/A

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures and Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	overflowing of the sediment slurry to the surrounding water.						
S7.5.22	The barge transporting the sediments to the designated disposal sites shall be equipped with tight fitting seals to prevent leakage and shall not be filled to a level that would cause overflow of materials or laden water during loading or transportation. In addition, monitoring of the barge loading shall be conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels shall be equipped with automatic self-monitoring devices as specified by the DEP.	To avoid and minimize impacts arising from waste management	Contractor	All works area	Construction phase	WSO	N/A
	ntamination	T	T	T		T	
\$8.9.3	To minimise environmental impacts arising from the handling of potentially contaminated materials, the following environmental precautionary measures are recommended to be utilised during the course of any required site remediation: • Excavation profiles must be properly designed and executed with attention to the relevant requirements for environment, health and safety. • Establish and maintain a Health and Safety Plan with the information below before commencement of the SI: (a) Instruction of works on work procedures, safe practices, emergency duties, and applicable regulations; (b) Regularly scheduled meetings of the workers in which the possible hazards, problems of the job,	To control land remediation work	Contractor	Area identified with land contamination	Prior to the commencement of construction works at the contaminated areas	"Guidance Note for Contaminated Land Assessment And Remediation", "Guidance Manual for Use of Risk- based Remediation Goals for Contaminated Land Management", "Public Cleansing and Prevention of Nuisances	N/A

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures and Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	and related safe practices are emphasized and discussed; (c) Good housekeeping practices; and (d) Availability of and instruction in the location, use and maintenance of personal protective equipment. • Excavation shall be carried out during dry season as far as possible to minimise contaminated runoff from contaminated soils. • Supply of suitable clean backfill material (or treated soil) after excavation. • Stockpiling site(s) shall be lined with impermeable sheeting and bunded. Stockpiles shall be fully covered by impermeable sheeting to reduce dust emission. If this is not practicable due to frequent usage, regular watering shall be applied. However, watering shall be applied. However, watering shall be avoided on stockpiles of contaminated soil to minimise contaminated runoff. • Vehicles containing any excavated materials shall be suitably covered to limit potential dust emissions or contaminated wastewater run-off, and truck bodies and tailgates shall be sealed to prevent any discharge during transport or during wet conditions. • Speed control for the trucks carrying contaminated materials shall be enforced.	Address				Regulation (Cap. 132BK)", APCO, WDO and WPCO	

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures and Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	 Vehicle wheel and body washing facilities at the site's exist points shall be established and used. Pollution control measures for air emissions (e.g. from biopile blower and handling of cement), noise emissions (e.g. from blower or earthmoving equipment), and water discharges (e.g. runoff control from treatment facility) shall be implemented and complied with relevant regulations and guidelines. 						
	pe and Visual Impact (Construction Phase)						
S9.8.1	Trees unavoidably affected by the works should be transplanted as far as possible in accordance with DEVB TC(W) 7/2015 – Tree Preservation or LAO PN 7/2007 - Tree Preservation and Tree Removal Application for Building Development in Private Projects where applicable.	To transplant affected trees	Contractor	All works area	Construction phase	DEVB TC(W) No. 7/2015 or LAO PN 7/2007 where applicable	N/A
S9.8.1	Control of night-time lighting glare.	To minimize the Landscape and visual impact on surrounding setting	Contractor	All works area	Construction phase	TM-EIAO	N/A
S9.8.1	Erection of decorative screen hoarding which should be compatible with the surrounding setting	To minimize the Landscape and visual impact on surrounding setting	Contractor	All works area	Construction phase	TM-EIAO	N/A
S9.8.1	Management of facilities on work sites by controlling the height and disposition/arrangement of all facilities on the works site to minimize visual impact to adjacent VSRs.	To minimize visual impact to adjacent VSRs.	Contractor	All works area	Construction phase	-	Implemented
S9.8.1	All hard and soft landscape areas disturbed temporarily during construction should be reinstated on like-to-like basis,	To minimize the landscape impact	Contractor	All works area	Construction phase	-	N/A

EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures and Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	to the satisfaction of the relevant Government Departments.	on surrounding setting					
Hazard to	o Life						
S10.7.2	Precautionary measures for chlorine released from SHWWTW such as provision of emergency plan for efficient evacuation including good practice (i.e. adequate training and drills for construction workers) during construction phase shall be implemented to further reduce the risk level.	To further reduce the risk level	Contractor	All works area	Construction phase	TM-EIAO	N/A

Appendix B

Monthly EM&A Report for December 2023 Cable Bridges and Associated Civil Works for Cable Diversion Works Contract 1732





MTR Corporation Limited

Siu Ho Wan Depot Property Development -

Cable Bridges and Associated Civil Works for Cable Diversion

Monthly EM&A Report

(Period from 1 to 31 December 2023)

	Name	Signature
Prepared by	Kako Ho	Ho
Checked & Reviewed by	F. C. Tsang	Toay Faulbery





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EXECUTIVE SUMMARY

- A.1 This is the 25th monthly Environmental Monitoring and Audit (EM&A) report presenting the EM&A works carried out during the reporting period from 1 December to 31 December 2023.
- A.2 A summary of the construction works reported by the Contractor for the Project during the reporting month is listed below.

Construction activities undertaken

- General survey works
- Instrumentation monitoring
- Draw pits, cable ducts and cable trough works
- EVA construction and watermain installation near AB23
- Additional footings at test track
- Additional civil provisions for standalone CCTV monitoring for EVA at east level crossing
- Cable containments at the footing for cable diversion
- Additional EV03&04 civil works and trackworks
- A.3 A summary of regular construction dust monitoring activities in this reporting period is listed below:

Construction dust (1-hour TSP) monitoring DM1 15 times

- A.4 Weekly environmental site inspections were conducted during the reporting period. A joint site inspection with the IEC was carried out on 11 December 2023. Observations were reported during the site inspections. All items are rectified within the reporting period. The environmental performance of the Project was considered satisfactory.
- A.5 Details of waste management are presented in **Section 3**.
- A.6 No Action or Limit Levels exceedance of 1-hour TSP was recorded during the reporting period.
- A.7 No complaint or non-compliance was reported in the reporting period.
- A.8 No notification of summon or prosecution was received in this reporting period.
- A.9 No changes of EM&A programme were made in this reporting period.





A.10 A summary of the construction activities provided by the Main Contractor in the next three reporting months are listed below:

Construction Activities to be undertaken

- General survey works
- Instrumentation monitoring
- Draw pits, cable ducts and cable trough works
- Additional civil provisions/works for depot facilities
- Additional diversion and relocation of cable ducts and draw pits at west level crossing
- EVA construction and watermain installation near AB23
- Additional footings
- Inspection pit for the OHL footing and cable tunnel
- Additional civil provisions for standalone CCTV monitoring for EVA at east level crossing
- Additional cable tray with FC footing for train wash plant
- Additional EV03&04 civil works and trackworks





1. BASIC PROJECT INFORMATION

- 1.1.1. The Project involves the construction of the foundations and superstructure for two cable bridges and each of two spans across and above the Tung Chung Line, Airport Express Line and the Siu Ho Wan Depot test track. The Works enable the diversion of the existing utilities to provide space for the future foundation works of the Siu Ho Wan Property Development and Oyster Bay Station (OYB, formerly named as Siu Ho Wan Station (SHO)).
- 1.1.2. The (AEIAR-214/2017) "Siu Ho Wan Station and Siu Ho Wan Depot Replanning Works" Environmental Impact Assessment Report was approved with conditions by the Environmental Protection Department (EPD) on 29 November 2017. The latest Environmental Permit (No. EP-588/2021) was issued by the EPD on 22 March 2021.
- 1.1.3. The Project (Contract 1732) was awarded to Paul Y. CRCCI Joint Venture (JV). JV has engaged Acuity Sustainability Consulting Limited as the Environmental Team (ET) for this contract.
- 1.1.4. The Project covers the following construction activities:
 - (a) Site formation, tree removal, site safety fencing and supply and installation of Engineer's Site Accommodation;
 - (b) Diversion of existing above ground watermains to create working areas within the site for the Works;
 - (c) Constructing foundations comprising pre-bored H-piles, and carrying out pile load tests on selected H-piles;
 - (d) Constructing pile caps and spread footing foundations in shallow excavation;
 - (e) Prefabrication of steel truss vertical support frames, and erection on the foundations;
 - (f) Prefabrication of steel truss cable bridges and erection on to the vertical support frames;
 - (g) Prefabrication and erection of a steel link bridge spanning between the cable bridge and the façade of the existing building AB11;
 - (h) Installation of cable trays, cable supports and sunshield in and along the cable bridges, vertical support frames and at external walls of the existing building AB11;
 - (i) Installation of cable bridge miscellaneous details such as roof, drainage, facades, lightings, lightning protection, access control;
 - (j) Installation of ground level cable troughs;
 - (k) Modification of the façade of existing AB11 building for cable feeding out from the building;
 - (l) All temporary railway protection works such as hoardings and retaining structures in course of the Execution of the works; and
 - (m) Supply and installation of equipotential bonding for the cable bridge and associated fixed metal parts attached to the cable bridge.





1.1.5. A summary of the major construction activities undertaken in this reporting period (from 1 December to 31 December 2023) is shown in **Table 1.1**. The construction programme is presented in **Appendix A**.

Table 1.1 Summary of the construction activities reported by Main Contractor during the Reporting Month

Construction Activities undertaken

- General survey works
- Instrumentation monitoring
- Draw pits, cable ducts and cable trough works
- EVA construction and watermain installation near AB23
- Additional footings at test track
- Additional civil provisions for standalone CCTV monitoring for EVA at east level crossing
- Cable containments at the footing for cable diversion
- Additional EV03&04 civil works and trackworks
- 1.1.6. The project organisational chart specifying management structure and contact details are shown in **Appendix B**.
- 1.1.7. A summary of the valid permits, licences, and/ or notifications on environmental protection for this Project is presented in **Table 1.2**.

Table 1.2 Summary of the Status of Valid Environmental License Notification, Permit and Documentations

Permit/ Licences/	Valid	Period	G	D 1
Notification/ Reference No.	From	То	Status	Remark
Environmental Permit				
EP-588/2021	22 Mar 2021	N/A	Valid	-
Wastewater Discharge Li	cense			
WT00040639-2022	23 Mar 2022	31 Mar 2027	Valid	-
Notification of Construction Works under the Air Pollution Control (Construction Dust) Regulation				Construction Dust)
Ref. 472845	N/A	N/A	Notified	Notification submitted on 19 Oct 2021
Chemical Waste Producer	Registration			
WPN5213-961-P3457-01	19 Nov 2021	N/A	Valid	-
Billing Account for Dispos	sal of Construct	tion Waste		
7042328	25 Nov 2021	N/A	Valid	-
Construction Noise Permi	t			
GW-RS0922-23	1 Nov 2023	30 Apr 2024	Valid	Site office, main works at AB11 area and cross-track area, cable bracket works along TCL/AEL, and additional EI works





2. ENVIRONMENTAL STATUS

2.1.1. Environmental permit (EP) conditions under the EIAO, submission status under the EP and implementation status of mitigation measures had been reviewed and implemented on schedule. The status of required submissions under the EP (No. EP-588/2021) as of the reporting period for the Project are summarised in **Table 2.1**.

Table 2.1 Summary of Status of Required Submission for EP-588/2021 for the Project

EP Condition (EP-588/2021)	Submission	Submission date
		11 June 2021 (1 st submission)
1.12	Commencement Date of Construction	12 July 2021 (2 nd submission)
	Construction	12 August 2021 (3 rd submission)
		1 November 2021 (1st submission)
		20 December 2021 (2 nd submission)
2.7	Construction Works Phasing	29 December 2021 (Deposited)
2.7	Schedule	9 October 2023 (1st submission with
		updated Phase 1 work)
		30 November 2023 (Deposited)
2.0	Environmental Permit Submission	12 August 2021
2.8	Schedule	10 September 2021 (Deposited)
		1 November 2021 (1st submission)
	Management Organization	20 December 2021 (2 nd submission)
2.9		21 April 2022 (3 rd submission)
		9 August 2022 (4 th submission)
		16 November 2022 (5 th submission) 18 September 2023 (6 th submission)
		1 November 2021 (1st submission)
		, , , , , , , , , , , , , , , , , , ,
		20 December 2021 (2 nd submission)
		28 December 2021 (Deposited) 30 December 2022 (1st submission for
		Phase 1 work)
		29 March 2023 (2 nd submission for Phase
	Construction Noise Mitigation	1 work)
2.10	Plan	18 May 2023 (3 rd submission for Phase 1 work)
		28 July 2023 (4 th submission for Phase 1 work)
		30 October 2023 (5 th submission for Phase 1 work)
		6 December 2023 (6 th submission for
		Phase 1 work)
		8 December 2023 (Deposited)





EP Condition (EP-588/2021)	Submission	Submission date
		31 March 2023 (1st submission)
2.11	Noise Mitigation Plan	31 July 2023 (2 nd submission)
		20 October 2023 (3 rd submission)
		1 November 2021 (1 st submission)
		20 December 2021 (2 nd submission)
2.12	Weste Monagement Plan	28 December 2021 (Deposited)
2.13	Waste Management Plan	30 June 2023 (1st submission for Phase 1 work)
		1 August 2023 (2 nd submission for Phase 1 work)
		27 April 2023 (1st submission)
2.15	1 1 17 1D ()	27 July 2023 (2 nd submission)
2.13	Landscape and Visual Plan(s)	20 October 2023 (3 rd submission)
		8 December 2023 (Approved)
3.3	Baseline Monitoring Report	1 November 2021
3.3	Baseinie Mointoring Report	16 November 2021 (Deposited)
3.4	Monthly EM&A Report (Dec 2021 – Nov 2023)	Submitted within 10 working days after the end of the reporting month
	Monthly EM&A Report	2 2
3.4	(December 2023)	This report submission
4.2	Dedicated Internet Website	12 January 2022
1.2	Dealeased Internet Weepite	25 July 2023 (updated address)

2.1.2. The drawings showing the project layout and the location of the monitoring station are attached in **Appendix C** and **Appendix D**, respectively. A summary of the monitoring location is shown in **Table 2.2**.

Table 2.2 Summary of the location of the monitoring station

Air Sensitive Receiver (ASR) ID No. in EIA Report	Monitoring Station ID	ASR Description
A2	DM1	Siu Ho Wan Government Maintenance Depot





3. MONITORING RESULTS

3.1. Monitoring Parameters

Air Quality

- 3.1.1. The impact monitoring had been carried out in accordance with Section 2.6 of the approved EM&A Manual, with sampling frequency of at least 3 times in every 6 days undertaken, to determine the 1-hour total suspended particulates (TSP) levels at the monitoring locations in the reporting period.
- 3.1.2. General meteorological conditions (wind speed, direction and precipitation) and notes regarding any significant adjacent dust producing sources had also been recorded throughout the impact monitoring period.

3.2. Monitoring Equipment and Methodology

Monitoring Equipment

- 3.2.1. Portable direct reading dust meter was used to carry out the 1-hour TSP monitoring. Portable direct reading dust meters used in this monitoring were proven to the IEC to be capable of achieving comparable result as that of the HVS and, thus, were used for sampling.
- 3.2.2. The equipment used for 1-hour TSP measurement during the reporting month are summarised in **Table 3.1**.

Table 3.1 Construction Dust Monitoring Equipment

Measuring Parameter	Monitoring Equipment	Brand and Model	Serial Number	Date of Calibration
1-hour TSP	Portable direct reading dust meter (1-hour TSP)	Sibata Digital Dust Monitor (Model No. LD-3B)	A.005.16a	26 Apr 2023
1-hour TSP	Portable direct reading dust meter (1-hour TSP)	Sibata Digital Dust Monitor (Model No. LD-3B)	A.005.09a	15 Aug 2023

3.2.3. The portable direct reading dust meter was calibrated at 1-year interval against a High-Volume Sampler, TE-5170. Copies of calibration certificates of the portable direct reading dust meter are presented in **Appendix E**.

Monitoring Methodology

3.2.4. The 1-hour TSP measurement followed manufacturer's instruction manual. Before initiating a measurement, zeroing the portable direct reading dust meter was carried out to ensure maximum accuracy of concentration measurements.





3.2.5. The 1-hour TSP was sampled by drawing air into the portable direct reading dust meter where particular concentrations were measured instantaneously with an in-built silicon detector sensing light scattered by the particulates in the sampled air. Continuous TSP levels were indicated and logged by a built-in data logger compatible with Windows based program to facilitate data collection, analysis and reporting.

3.3. Monitoring Location

3.3.1. Location of the designated dust monitoring station is described in **Table 3.2**.

Table 3.2 Construction Dust Monitoring Location

Monitoring Station ID	Dust Monitoring Station
DM1	Siu Ho Wan Government Maintenance Depot

3.4. Result Summary

- 3.4.1. Dust impact monitoring was carried out at DM1 on 5, 11, 16, 21 and 27 December 2023 during the reporting month (**Appendix L**). According to the field observations, the major dust sources identified included vehicular emissions from North Lantau Highway and Cheung Tung Road. Gentle wind was recorded throughout the monitoring period, with gentle to strong wind recorded occasionally.
- 3.4.2. The results for 1-hour TSP are summarized in **Table 3.3**. The measurement data are presented in **Appendix F.**

Table 3.3 Summary of 1-hour TSP Monitoring Results

Monitoring Location	Range (μg/m³)	Action Level (μg/m³)	Limit Level (μg/m³)	No. of Exceedances
DM1	59.6 – 64.1	294.7	500	0

Waste management

3.4.3. The waste generated from this Project includes inert C&D materials, and non-inert C&D materials. Non-inert C&D materials are made up of general refuse, vegetative wastes and recyclable wastes such as plastics and paper/ cardboard packaging waste. Steel materials generated from the project are also grouped into non-inert C&D materials as the materials were not disposed of with other inert C&D materials. With reference to relevant handling records and trip tickets of this Project, the quantities of different types of waste generated in the reporting month are summarised in **Table 3.4**. Details of cumulative waste management data are presented as a waste flow table in **Appendix G**.





Table 3.4 Quantities of waste generated from the Project

			-	Quantity										
				Non-inert C&D materials										
Reporting period	Inert C&D materials (in m ³)	Chemical Waste (in '000 kg)	Others, e.g., General Refuse		Recycled	wastes								
	(III III)		disposed at Landfill (in '000 kg)	Paper/ cardboard (in '000 kg)	Plastics (in '000 kg)	Metals (in '000 kg)	Yard Waste (in '000 kg)							
Dec 2023	380.540	0.000	27.540	0.000	0.000	0.000	0.000							

- 3.4.4. All dump trucks for C&D materials transportation and disposal were equipped with Global Positioning System (GPS) for real time tracking and monitoring their travel routings and parking locations in order to avoid illegal dumping or landfilling of C&D materials.
- 3.4.5. The GPS data including travel routings of dump trucks was reviewed by the ET and IEC, and no illegal dumping activities were suspected.





4. SUMMARY OF COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTIONS

- 4.1.1. The Environmental Complaint Handling Procedure is shown in **Appendix H**.
- 4.1.2. Should non-compliance of the air quality criteria occur, action in accordance with the Event and Action Plan in **Appendix I** shall be carried out.
- 4.1.3. No Action or Limit Levels exceedance of 1-hour TSP was recorded during the reporting month.
- 4.1.4. No complaint or non-compliance was reported in the reporting month.
- 4.1.5. No notification of summons and prosecution was received in the reporting period.
- 4.1.6. Statistics on complaints, notifications of summons and successful prosecutions are summarized in **Appendix J**.





5. EM&A SITE INSPECTION

5.1.1. Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures under the Contract. In the reporting period, four (4) site inspections were carried out on 4, 11, 18 and 27 December 2023. One joint site inspection with the IEC was also undertaken on 11 December 2023. Observations were reported during the weekly site inspections. Key observations during the site inspections are summarized in **Table 5.1**.

Table 5.1 Site Observations

Date	Observation/ Recommendation	Follow-up Status
4 December 2023	 Near South road (east crossing), construction waste should be removed and properly disposed. 	Construction waste had been properly disposed.
11 December 2023	 At AB7, stockpile of sand and construction materials should be covered with tarpaulin sheeting. Near test track area, the breaker noise label was found missing. 	 Dusty materials had been covered. Noise label had been displayed on the breaker.
18 December 2023	1. At W5, unpaved road should be regularly wetted to reduce dust emissions.	Water spraying had been provided.
27 December 2023	None	None

5.1.2. According to the EIA Study Report, Environmental Permit, contract documents and EM&A Manual, the mitigation measures detailed in the documents are implemented as much as practical during the reporting period. An updated Implementation Status of Environmental Mitigation Measures (EMIS) is provided in **Appendix K**.





6. FUTURE KEY ISSUES

6.1.1. Work to be undertaken in the next three reporting months are:

Construction Activities to be undertaken

- General survey works
- Instrumentation monitoring
- Draw pits, cable ducts and cable trough works
- Additional civil provisions/works for depot facilities
- Additional diversion and relocation of cable ducts and draw pits at west level crossing
- EVA construction and watermain installation near AB23
- Additional footings
- Inspection pit for the OHL footing and cable tunnel
- Additional civil provisions for standalone CCTV monitoring for EVA at east level crossing
- Additional cable tray with FC footing for train wash plant
- Additional EV03&04 civil works and trackworks
- 6.1.2. Potential environmental impacts arising from the above construction activities are mainly associated with construction dust impact, noise impact, and waste management.
- 6.1.3. The tentative schedule of regular 1-hour TSP monitoring in the next reporting period is presented in **Appendix M**.
- 6.1.4. The construction programme for the Project for the next reporting month is presented in **Appendix A**.





7. CONCLUSION AND RECOMMENDATIONS

- 7.1.1. This 25th monthly EM&A Report presents the EM&A works undertaken during the period from 1 December to 31 December 2023 in accordance with the EM&A Manual and the requirement under EP-588/2021.
- 7.1.2. Air quality (including 1-hour TSP) impact monitoring was carried out in the reporting period. No exceedance of the Action and Limit Levels was recorded for air quality impact monitoring during the reporting period.
- 7.1.3. Weekly environmental site inspections were conducted during the reporting period. A joint site inspection with the IEC was carried out on 11 December 2023. Observations were reported during the site inspections. All items are rectified within the reporting period. The environmental performance of the Project was considered satisfactory.
- 7.1.4. No complaint or non-compliance was reported in the reporting month.
- 7.1.5. No notification of summons or prosecution was received in the reporting month.
- 7.1.6. The ET will keep track on the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.
- 7.1.7. No change of EM&A programme was made in this reporting period.
- 7.1.8. The proposed mitigation measures were properly implemented and were considered effective and efficient in pollution control.





Appendix A Construction Programme





Appendix A Construction Programme

Construction Activities	ID						2021									20	22								- 2	2023					2024									
Construction Activities	110	J	F	M	A	M .	J J	A	S	0	N I	D J	F	M	A M	J	J	A S	0	N	D .	J F	M	A	M J	J	A	S	O N	I D	J	F	M A	M	[J	J	A S	S	O N	1 D
Contract 1732 - Cable Bridge and Associated Civil Works for Cable Diversion	2	Т																													П									
Site Clearance & Hoarding / UU / Cable Trenches	2.1											Т	П		Т			Т			Т	I			Т				Τ				\Box			П	\Box	\Box	\Box	\Box
H-piling	2.2																																							
Excavation (Soil)	2.3												П		Т				Т	П	Т	Т				Т			Т	Т		П								
Substructure (footing, pile caps, columns)	2.4																	Т			Т	Τ			T				Τ	Т							\Box	\Box	\top	
Backfilling	2.5																		Τ																Τ					
Superstructure (Cable Bridges)	2.6	Т	Т	П	П	\neg	Т	Т			П		П		Т			Т	Т	П	т	Т			т	Т				Т	П				Т			\top	\top	Т



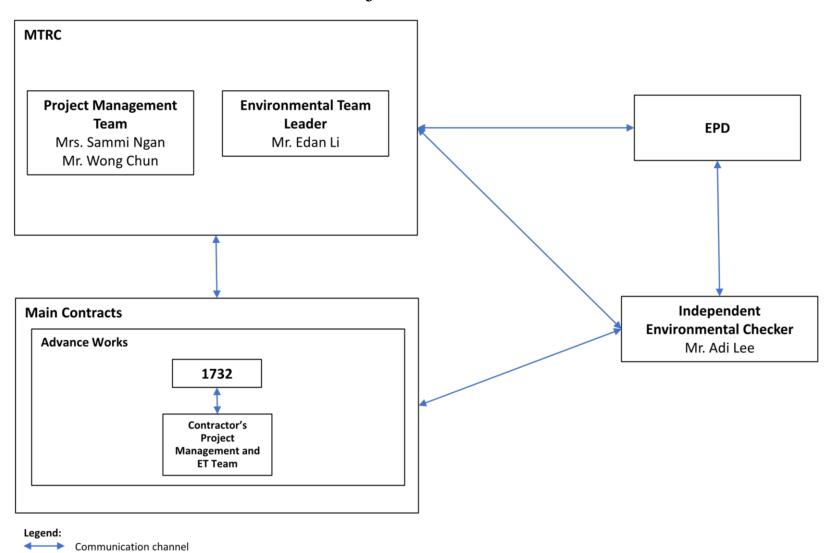


Appendix B Project Organization Chart





Project O-Chart







MTR's Contact:

MTRC - Project Management Team										
Position	Name	Telephone								
Chief Construction Manager - OYB	Mrs. Sammi Ngan	2208 3753								
Senior Construction Manager - Civil	Mr. Wong Chun	2208 3684								

MTRC - Environmental Team										
Position	Name	Telephone								
Environmental Team Leader	Mr. Edan Li	2688 1179								
Environmental Team Member	Mr. Cyrus Lau	2688 1585								

Meinhardt Infrastructure and Environment Limited- IEC								
Position	Name	Telephone						
Independent Environmental Checker	Mr. Adi Lee	2859 5443						
IEC Team Member	Mr. Sylar Tsui	2859 5225						

Contractor's Contact:

Main Works Contract	Description	Contractor	Position	Name	Telephone
	Construction of cable bridges and	Davil V CDCCI	Project Manager	David Wong	9712 9984
1732	associated civil works for cable		Environmental Officer	Pan Fong	9436 9435
	diversion	Joint Venture	Environmental Team Leader	Tsang, Fan Cheong	2698 8060



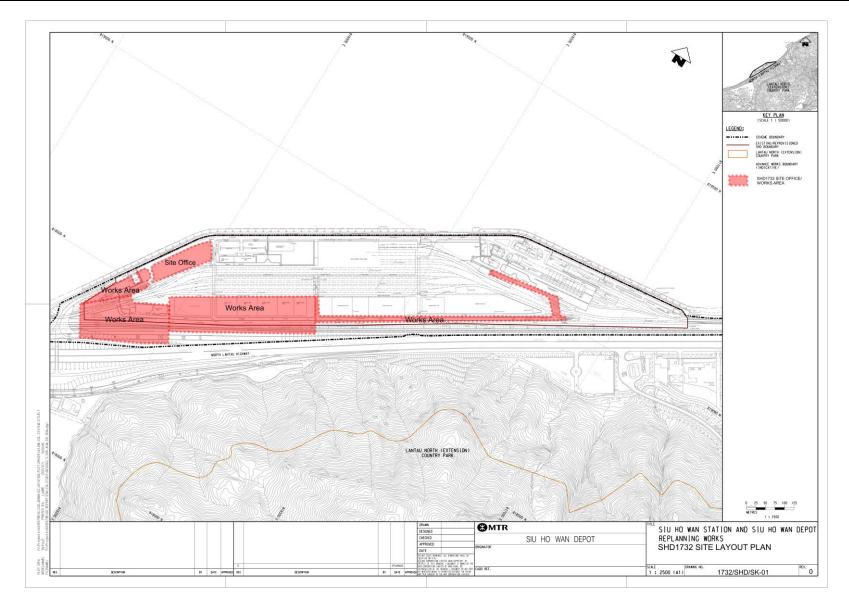


Appendix C

Alignment and Works Area for Contract No. 1732









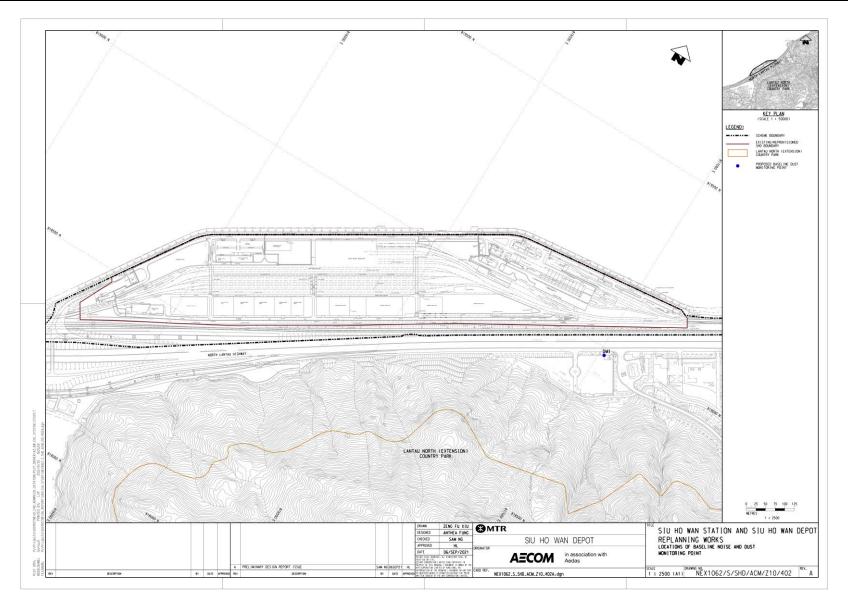


Appendix D

Location Plan of Air Quality Monitoring Station











Appendix E

Calibration Certificates

(Air Quality Monitoring Equipment)





EQUIPMENT CALIBRATION RECORD

Type:			Laser Dus	t Monitor			
Manufacti	urer/Brand:		SIBATA				
Model No	.:		LD-3B				-
Equipmen	t No.:		A.005.16a	a			-
Sensitivity	Adjustment Sca	le Setting:	521 CPM				
	•						-
Operator:			WS CHAN	l			
Standard I	quimment						
Equipmen	t:			ıme Samp	ler		
Venue:			Pedestria	n Plaza			
Model No	.:		TE-5170				
Serial No.:			10273				
Last Calibr	ation Date:		4-Apr-23				
G 111 .:	D 1:						
Calibration	n Result						
Sancitivity	Adjustment Sca	le Setting (Refor	o Calibrati	on)·		521	СРМ
	Adjustment Sca					521	CPM
Sensitivity	Aujustinent sca	ie setting (Arter	Calibratio				· CFIVI
Hour	Date	Time	Ambient	Condition	Concentration 1	Total Count 2	Count/
	(dd/mm/yy)		Temp (°C)	R.H.(%)	(mg/m3)		Minute(3)
	(==,, , , ,			(, -,	Y-axis		X-axis
1	26/04/23	9:00-10:00	23.5	65	0.0490	1860	31.00
2	26/04/23	10:00-11:00	23.5	65	0.0500	1940	32.33
3	26/04/23	11:00-12:00	23.5	65	0.0520	2020	33.67
4	26/04/23	12:00-13:00	23.5	65	0.0540	2150	35.83
Note:	1 Monitoring	data was measu	red by Hig	h Volume	Sampler	•	•
	2 Total Count	was logged by L	aser Dust	Monitor			
	3 Count/minu	ite was calculate	d by (Tota	l Count/60	0)		
By Linear I	Regression of Y c						
	Slope (K-factor)	:	0.0015				
	Correlation coe	fficient:	0.9997				
Validity of	Calibration Reco	ord:	26-A	pr-24			
Remarks:							
Remarks.							
					14		
					9/		
QC	Reviewer:	Y.W. Fung	-	Signature:		Date:	28-Apr-23





EQUIPMENT CALIBRATION RECORD

Type:			Laser Dus	t Monitor			
Manufactu	ırer/Brand:		SIBATA				
Model No.	:		LD-3				
Equipment	t No.:		A.005.09a	1			
Sensitivity	Adjustment Sca	le Setting:	797 CPM				_
Operator:			WS CHAN				
Standard E	Guimment						
Standard	quillinent						
Equipmen	t:		High Volu	me Sampl	er		
Venue:			Ma Wan (
Model No.	:		TE-5170				
Serial No.:			3383				
Last Calibr	ation Date:		4-Aug-23				
Calibration	n Result						
	Adjustment Sca					797	CPM
Sensitivity	Adjustment Sca	le Setting (After	Calibration	ո)։		797	CPM
			1				
Hour	Date	Time	Ambient (Condition	Concentration ①	Total Count 2	Count/
	(dd/mm/yy)		Temp (°C)	R.H.(%)	(mg/m3)		Minute ③
					Y-axis		X-axis
1	15/08/23	9:00-10:00	32.0	80	0.038	1580	26.33
2	15/08/23	11:30-12:30	32.0	80	0.035	1360	22.67
3	15/08/23	13:50-14:50	32.0	80	0.041	1752	29.20
Note:	=	data was measu			Sampler		
	_	was logged by L					
	(3) Count/minu	te was calculate	d by (Total	Count/60	0)		
		.,					
By Linear I	Regression of Yo		0.0045				
	Slope (K-factor)		0.0015				
	Correlation coef	fficient:	0.9985				
1/-1:-1:	Calibratian Dana		1 F. A.	- 24			
validity of	Calibration Reco	ora:	15-Au	1g-24			
Remarks:							
Remarks.							
					4/		
QC I	Reviewer:	Y.W. Fung	S	ignature:		Date:	15-Aug-23
			•	5		•	





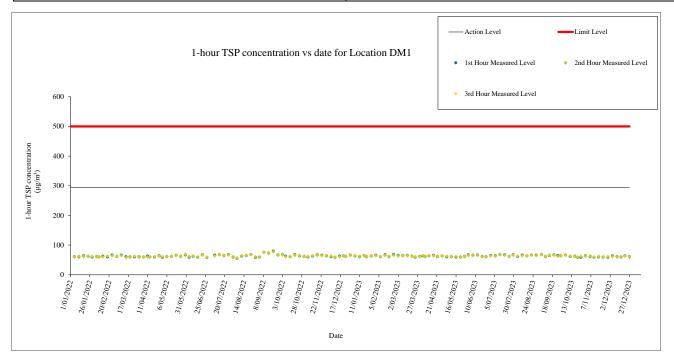
Appendix F
Monitoring Data (Air Quality Monitoring)





The Summary of 1-hour TSP Concentration (µg/m³) at Location DM1

Data	Weether	Start Time	1 st Hour	2 nd Hour	3 rd Hour
Date	Weather	(hh:mm)	μg/m ³	$\mu g/m^3$	μg/m ³
05/12/2023	Sunny	13:00	64.1	62.3	60.7
11/12/2023	Sunny	13:05	61.1	60.2	61.8
16/12/2023	Fine	13:10	59.6	61.1	60.2
21/12/2023	Sunny	13:00	63.8	63.1	62.7
27/12/2023	Sunny	13:00	61.6	60.0	62.9
Mi	inimum: 59.6 μg	y/m^3	Ma	nximum: 64.1 μg/	m^3







Appendix G
Waste Flow Table





Monthly Summary Waste Flow Table

Name of Department: MTR Contract No. / Works Order No.: 1732

Monthly Summary Waste Flow Table for <u>December 2023</u>

	Actual Quantities of Inert Construction Materials Generated Monthly							
Month	(a) Total Quantity Generated	(b) Hard Rock and Large Broken Concrete	(c) Reused in the Contract	(d) Reused in other Projects	(e) Disposed of as Public Fill	(f) Imported Fill		
	(in m ³)	(in m ³)	(in m ³)	(in m ³)	(in m ³)	(in m ³)		
Jan-23	0.000	0.000	0.000	0.000	0.000	0.000		
Feb-23	325.581	130.876	0.000	0.000	194.705	0.000		
Mar-23	762.706	168.656	0.000	0.000	594.050	0.000		
Apr-23	229.563	87.508	0.000	0.000	142.055	0.000		
May-23	483.460	0.000	0.000	0.000	483.460	0.000		
Jun-23	284.044	24.524	0.000	0.000	259.520	0.000		
Sub-total	2085.354	411.564	0.000	0.000	1673.790	0.000		
Jul-23	508.199	113.684	0.000	0.000	394.515	0.000		
Aug-23	162.800	0.000	0.000	0.000	162.800	0.000		
Sep-23	22.100	10.740	0.000	0.000	11.360	0.000		
Oct-23	240.140	0.000	0.000	0.000	240.140	0.000		
Nov-23	1432.970	0.000	0.000	0.000	1432.970	0.000		
Dec-23	380.540	0.000	0.000	0.000	380.540	0.000		
Total	4832.103	535.988	0.000	0.000	4296.115	0.000		
2021	0.000	0.000	0.000	0.000	0.000	0.000		
2022	1226.473	72.128	0.000	0.000	1154.345	0.000		
Accumulated Total	6058.576	608.116	0	0	5450.46	0		





	Actual Quantities of Non-inert Construction Materials Generated Monthly							
Month	(g) Metals	(h) Paper/ cardboard packaging*	(i) Plastics	(j) Chemical Waste	(k) Recyclable Yard Waste	(l) Others, e.g. General Refuse disposed of at Landfill		
	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)		
	generated	generated	generated	generated	generated	generated		
Jan-23	0.000	0.000	0.000	0.000	0.000	10.130		
Feb-23	0.000	0.0125	0.000	0.000	0.000	9.190		
Mar-23	0.000	0.000	0.000	0.000	0.000	17.880		
Apr-23	0.000	0.000	0.000	0.000	0.000	12.670		
May-23	0.000	0.000	0.000	0.000	0.000	9.350		
Jun-23	0.000	0.000	0.000	0.000	0.000	20.430		
Sub-total	0.000	0.0125	0.000	0.000	0.000	79.650		
Jul-23	0.000	0.000	0.000	0.000	0.000	42.530		
Aug-23	0.000	0.000	0.000	0.000	0.000	44.070		
Sep-23	0.000	0.000	0.000	0.000	0.000	5.990		
Oct-23	0.000	0.000	0.000	0.000	0.000	23.110		
Nov-23	0.000	0.000	0.000	0.000	0.000	23.330		
Dec-23	0.000	0.000	0.000	0.000	0.000	27.540		
Total	0.000	0.0125	0.000	0.000	0.000	246.220		
2021	0.000	0.000	0.000	0.000	0.000	0.000		
2022	0.200	0.277	0.300	0.010	93.660	393.380		
Accumulated Total	0.200	0.2895	0.300	0.010	93.660	639.600		

^{*}Note: Previous data has been updated.

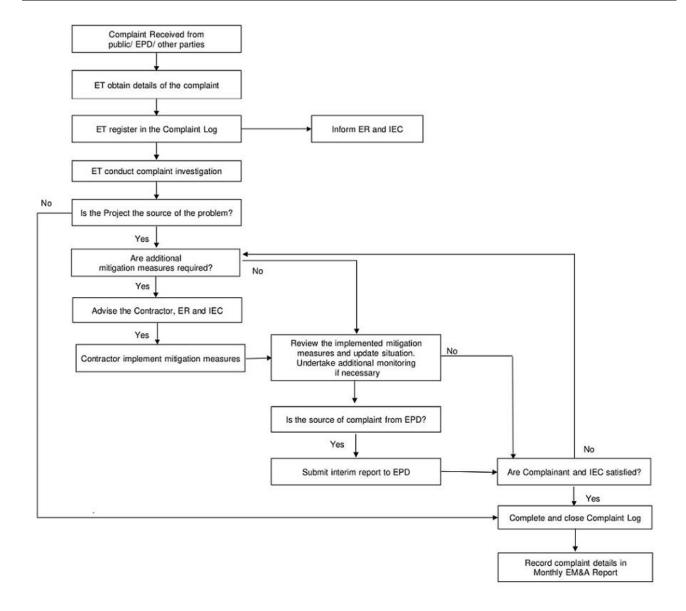




Appendix H
Complaint Handling Procedure











Appendix I

Event-Action Plan (Air Quality Monitoring)





FUENT	ACTION							
EVENT	ET	IEC	ER	CONTRACTOR				
ACTION LEVEL		•						
Exceedance for one sample	1. Repeat measurement to confirm findings; 2. If exceedance is confirmed, inform the Contractor, IEC and ER; 3. Identify source(s), investigate the causes of exceedance and propose remedial measures; and 4. Increase monitoring frequency.	1. Check monitoring data submitted by the ET; 2. Check Contractor's working method; and 3. Discuss with ET, ER and Contractor on possible remedial measures 4. Review and advise the ET and ER on the effectiveness of the proposed remedial measures.	Confirm receipt of notification of exceedance in writing.	Identify source(s), investigate the causes of exceedance and propose remedial measures; Implement remedial measures; and Amend working methods agreed with the ER as appropriate.				
Exceedance for two or more consecutive samples	1. Repeat measurements to confirm findings; 2. If exceedance is confirmed, inform Contractor, IEC and ER; 3. Identify source(s), investigate the causes of exceedance and propose remedial measures; 4. Increase monitoring frequency to daily; 5. Advise the Contractor and ER on the effectiveness of the proposed remedial measures; 6. Discuss with IEC and Contractor on remedial actions required; 7. If exceedance continues, arrange meeting with Contractor, IEC and ER to discuss the remedial measures to be taken; and 8. If exceedance stops, cease additional monitoring.	1. Check monitoring data submitted by the ET; 2. Check Contractor's working method; and 3. Discuss with ET, ER and Contractor on possible remedial measures; 4. Review and advise the ET and ER on the effectiveness of the proposed remedial measures; and 5. Supervise Implementation of remedial measures.	Confirm receipt of notification of exceedance in writing; In consultation with the ET and IEC agree with the Contractor on the remedial measures to be implemented; and Supervise implementation of remedial measures	Identify source(s) and investigate the causes of exceedance; Submit proposals for remedial measures to the ER, ET and IEC within three working days of notification for agreement; Implement the agreed proposals; and Amend proposal as appropriate.				





EVENT	ACTION							
EVENT	ET	IEC	ER	CONTRACTOR				
LIMIT LEVEL			•	•				
Exceedance for one sample	Repeat measurement to confirm findings; If exceedance is confirmed, inform the Contractor, IEC, EPD and ER; Identify source(s), investigate the causes of exceedance and propose remedial; Increase monitoring frequency to daily; and Discuss with the ER, IEC and Contractor on the remedial measures and assess effectiveness.	Check monitoring data submitted by the ET; Check Contractor's working method; Discuss with the ET, ER and Contractor on possible remedial measures; Review and advise the ET and ER on the effectiveness of the proposed remedial measures; and Supervise implementation of remedial measures.	Confirm receipt of notification of exceedance in writing; Review and agree on the remedial measures proposed by the Contractor; and Ensure remedial measures properly implemented.	Identify source(s) and investigate the causes of exceedance; Take immediate action to avoid further exceedance; Submit proposals for remedial measures to ER, ET and IEC within three working days of notification for agreement; Implement the agreed proposals; and Amend proposal if appropriate.				
Exceedance for two or more consecutive samples	Repeat measurement to confirm findings; If exceedance is confirmed, inform IEC, ER, Contractor and EPD; Identify source(s), investigate the causes of exceedance and propose remedial measures; Increase monitoring frequency to daily; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Arrange meeting with IEC and ER to discuss the remedial actions to be taken; Assess effectiveness of Contractor's remedial actions and	1. Check monitoring data submitted by the ET; 2. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 3. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; and 4. Supervise the implementation of remedial measures.	Confirm receipt of notification of exceedance in writing; In consultation with the ET and IEC, agree with the Contractor on the remedial measures to be implemented; Supervise the implementation of remedial measures; and If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.	1. Identify source(s) and investigate the causes of exceedance; 2. Take immediate action to avoid further exceedance; 3. Submit proposals for remedial measures to the ER, IEC and ET within three working days of notification for agreement; 4. Implement the agreed proposals; 5. Revise and resubmit proposals if problem still not under control; and 6. Stop the relevant				





	EVENT	ACTION					
EVENT	ET	IEC	ER	CONTRACTOR			
		keep IEC, EPD and ER informed of the results; and 8. If exceedance stops, cease additional monitoring.			portion of works as determined by the ER until the exceedance is abated.		

Note: ET – Environmental Team; ER – Engineer's Representative; IEC – Independent Environmental Checker





Appendix J Statistics on Complaint, Notification of Summons and Successful Prosecution





Table J1 Statistical Summary of Exceedance

Air Quality						
Location	Action Level	Limit Level	Total			
DM1	0	0	0			

Table J2 Statistical Summary of Environmental Complaint

Departing Devied	Environmental Complaint Statistics				
Reporting Period	Frequency	Cumulative	Complaint Nature		
1 December 2023 - 31 December 2023	0	0	N/A		

Table J3 Statistical Summary of Environmental Non-compliance

Donauting Davied	Environmental Non-compliance Statistics				
Reporting Period	Frequency	Cumulative	Details		
1 December 2023 - 31 December 2023	0	0	N/A		

Table J4 Statistical Summary of Environmental Summons

Donouting Davied	Environmental Summons Statistics				
Reporting Period	Frequency	Cumulative	Details		
1 December 2023 - 31 December 2023	0	0	N/A		

Table J5 Statistical Summary of Environmental Prosecution

Deporting Devied	Environmental Prosecution Statistics				
Reporting Period	Frequency	Cumulative	Details		
1 December 2023 - 31 December 2023	0	0	N/A		





Appendix K
Environmental Mitigation Implementation
Schedule (EMIS)





EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
Air Quality	y (Construction Phase)						
S3.8.1	Watering once per hour on active works areas, exposed areas and unpaved haul roads during working hours.	To minimize dust impacts	Contractor	All works area	Construction phase	Air Pollution Control Ordinance (APCO)	Implemented
\$3.8.9	 Implementation of dust suppression measures stipulated in the Air Pollution Control (Construction Dust) Regulation and good site practices should be carried out to further minimize construction dust impact. Use of regular watering, with complete coverage, to reduce dust emissions from exposed site surfaces and unpaved roads, particularly during dry weather. Use of frequent watering for particularly dusty construction areas and areas close to ASRs. Side enclosure and covering of any aggregate or dusty material storage piles to reduce emissions. Where this is not practicable owing to frequent usage, watering should be applied to aggregate fines. Open stockpiles should be avoided or covered. Where possible, prevent placing dusty material storage piles near ASRs. Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations. Establishment and use of vehicle wheel and body washing facilities at the exit points of the site. 	To minimize dust impacts	Contractor	All works area	Construction phase	Air Pollution Control Ordinance (APCO)	Implemented after observation





EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	• Provision of wind shield and dust extraction units or similar dust mitigation measures at the loading points, and use of water sprinklers at the loading area where dust generation is likely during the loading process of loose material, particularly in dry seasons/ periods.						
	• Imposition of speed controls for vehicles on unpaved site roads. 8 kilometres per hour is the recommended limit.						
	• Where possible, routing of vehicles and positioning of construction plant should be at the maximum possible distance from ASRs.						
	• 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.						





EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
Noise Impa	act (Construction Phase)						
S4.5.16	 Implement the following good site practices as far as practicable: Only well-maintained plant should be operated on-site, and plant should be serviced regularly during the construction program; Silencers or mufflers on construction equipment should be utilised and should be properly maintained during the construction program; Mobile plant, is any, should be sited as far from NSRs as possible; Machine and plant (such as trucks) 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 should, wherever possible, be orientated so that the noise is directed away from the nearby NSRs; and Material stockpiles and other structures should be effectively utilised, wherever practicable, in screening noise from on-site construction activities. 		Contractor	All works area	Construction phase	TM-EIAO	Implemented
S4.5.17	Adopting quiet PME is recommended. The type of quiet PME adopted in this assessment is for reference only. The contractors may adopt alternative quiet PME as long as it can be demonstrated that they would not result in construction noise impacts worse than those predicted in this assessment.	To reduce impact to affected NSRs	Contractor	All works area	Construction phase	TM-EIAO	Implemented
S4.5.19	Use of noise barriers and noise enclosures to provide screening for construction plant where recommended.	To reduce impact to affected NSRs	Contractor	All works area	Construction phase	TM-EIAO	N/A





EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
Water Qual	ity Impact (Construction Phase)						
S5.8.4	Surface and road run-off from construction sites should be discharged into storm drains via adequately designed sand/silt removal facilities such as sand traps, silt traps and sedimentation basins. Channels or earth bunds or sandbag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Perimeter channels should be provided on site boundaries where necessary to intercept storm run-off from outside the site so that it will not wash across the site. Catchpits and perimeter channels should be constructed in advance of site formation works and earthworks.	To minimise impact from construction site run-off	Contractor	All works area	Construction phase	Water Pollution Control Ordinance (WPCO), Technical Memorandum on EIA Ordinance (EIAO-TM), ProPECC PN 1/94, Technical Memorandum on	Implemented
\$5.8.5	Silt removal facilities, channels and manholes should be maintained, and the deposited silt and grit should be removed regularly, at the onset of and after each rainstorm to prevent local flooding. Any practical options for the diversion and re- alignment of drainage should comply with both engineering and environmental requirements in order to provide adequate hydraulic capacity of all drains.	To minimise impact from construction site run-off	Contractor	All works area	Construction phase	Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal	Implemented
S5.8.6	Construction works should be programmed to minimize soil excavation works in rainy seasons (April to September). If soil excavation cannot be avoided in these months or at any time of year when rainstorms are likely, for the purpose of preventing soil erosion, temporary exposed slope surfaces should be covered e.g., by tarpaulin, and temporary access roads should be protected by crushed stone or gravel, as excavation proceeds. Intercepting channels should be provided (e.g., along the crest / edge of excavation) to prevent storm runoff from washing across exposed soil surfaces. Arrangements should always be in place in such a way that adequate surface protection measures can be safely carried out well before the arrival of a rainstorm.	To minimise impact from construction site run-off	Contractor	All works area	Construction phase	Waters (TM-DSS)	Implemented





EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	Earthworks final surfaces should be well compacted, and the subsequent permanent work or surface protection should be carried out immediately after the final surfaces are formed to prevent erosion caused by rainstorms. Appropriate drainage like intercepting channels should be provided where necessary.	To minimise impact from construction site run-off	Contractor	All works area	Construction phase		Implemented
	Measures should be taken to minimize the ingress of rainwater into trenches. If excavation of trenches in wet seasons is necessary, they should be dug and backfilled in short sections. Rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities.	To minimise impact from construction site run-off	Contractor	All works area	Construction phase		Implemented
	If bentonite slurries are required for any construction works, they should be reconditioned and reused wherever practicable to minimise the disposal volume of used bentonite slurries. Temporary enclosed storage locations should be provided on-site for any unused bentonite that needs to be transported away after the related construction activities are completed. Requirements as stipulated in ProPECC Note PN 1/94 should be closely followed when handling and disposing bentonite slurries.	To minimise impact from construction site run-off	Contractor	All works area	Construction phase	WPCO, EIAO- TM, ProPECC PN 1/94	N/A
	Open stockpiles of construction materials (e.g. aggregates, sand and fill material) on sites should be covered with tarpaulin or similar fabric during rainstorms.	To minimise impact from construction site run-off	Contractor	All works area	Construction phase	WPCO, EIAO- TM, ProPECC PN 1/94, TM- DSS	Implemented
	Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers. Discharge of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system.	To minimise impact from construction site run-off	Contractor	All works area	Construction phase	WPCO, EIAO- TM, ProPECC PN 1/94, TM- DSS	Implemented





EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
S5.8.12	Good site practices should be adopted to remove rubbish and litter from construction sites so as to prevent the rubbish and litter from spreading from the site area. It is recommended to clean the construction sites on a regular basis.	To minimise impact from construction site run-off	Contractor	All works area	Construction phase	WPCO, EIAO- TM, ProPECC PN 1/94, TM- DSS	Implemented
S5.8.12	 The following mitigation measures related to the transportation of the sediment should be implemented to minimize the potential water quality impact: Loading of the excavated sediment to the barge shall be controlled to avoid splashing and overflowing of the sediment slurry to the surrounding water. The barge transporting the sediments to the designated disposal sites shall be equipped with tight fitting seals to prevent leakage and shall not be filled to a level that would cause overflow of materials or laden water during loading or transportation. Monitoring of the barge loading shall be conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels shall be equipped with automatic self-monitoring devices as specified by the Director of Environmental Protection (DEP). 	To minimise impact from transportation of sediment	Contractor	Barging point and barges	Construction phase	WPCO, EIAO- TM, ProPECC PN 1/94	N/A
S5.8.13	There is a need to apply to EPD for a discharge licence for discharge of effluent from the construction site under the WPCO. The discharge quality must meet the requirements specified in the discharge licence. All the runoff and wastewater generated from the works areas should be treated so that it satisfies all the standards listed in the TM-DSS. The beneficial uses of the treated effluent for other on- site activities such as dust suppression, wheel washing and general cleaning etc., can minimise water consumption and reduce the effluent discharge volume. If monitoring of the treated effluent quality from the works areas is required	To minimize impact from effluent discharge	Contractor	All works area	Construction phase	WPCO, EIAO- TM, ProPECC PN 1/94, TM- DSS	Approved





EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	during the construction phase of the Project, the monitoring should be carried out in accordance with the relevant WPCO licence.						
S5.8.14	Water for Bored Piling Works Water used in ground boring and drilling for site investigation or rock / soil anchoring should be re-circulated as far as practicable after sedimentation. When there is a need for final disposal, the wastewater should be discharged into storm drains via silt removal facilities.	To minimise impact from construction site run-off	Contractor	All works area	Construction phase	WPCO, EIAO- TM, ProPECC PN 1/94, TM- DSS	Implemented
S5.8.15	Wheel Washing Water Wash-water from wheel washing facility should have been treated by silt removal facilities before discharging into storm drains. Treated wash-water could be used as dust suppression measures as far as practicable. The section of access road between the wheel washing bay and the public road should be paved to reduce vehicle tracking of soil and to prevent silty water from entering public road and drains.	To minimise impact from construction site run-off	Contractor	All works area	Construction phase	WPCO, EIAO- TM, ProPECC PN 1/94, TM- DSS	Implemented
S5.8.16	Construction Works near Channelized Watercourse / Ditch For minimization of potential water quality impacts from the works to nearby inland channelized watercourse/ditch near SHWSTW, the practices outlined in ProPECC Note PN 1/94 "Construction Site Drainage" and ETWB TC (Works) No.5/2005 "Protection of natural streams / rivers from adverse impacts arising from construction works" should be adopted where applicable. Relevant mitigation measures are listed below: • The use of less or smaller construction plants may be specified in works area close to the inland water bodies. • Temporary storage of material (e.g. equipment, filling materials, chemicals and fuel) and temporary stockpile of construction materials should be located well away from watercourse/ditch when carrying out of the construction works. Stockpiling of construction	To minimise impact from construction site run-off	Contractor	All works area	Construction phase	WPCO, EIAO- TM, ProPECC PN 1/94, TM- DSS, ETWB TC(Works) No. 5/2005	Implemented





EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	 materials and dusty materials should be covered and located away from any watercourse/ditch. Construction debris and spoil should be covered up and / or disposed of as soon as possible to avoid being washed into the nearby water receivers. Construction activities, which generate large amount of wastewater, should be carried out in a distance away from the watercourse/ditch, where practicable. Construction effluent, site run-off and sewage should be properly collected and / or treated. 						
S5.8.17 – S5.8.19	 Accidental Spillage of Chemicals The Contractor should register as a chemical waste producer if chemical wastes would be produced from the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation, should be observed and complied. Any service shop and maintenance facilities should be located on hard standings within a bunded area, and sumps and oil interceptors should be provided. Maintenance of vehicles and equipment involving activities with potential for leakage and spillage should only be undertaken within the areas appropriately equipped to control these discharges. Disposal of chemical wastes should be carried out in compliance with the Waste Disposal Ordinance. The Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes published under the Waste Disposal Ordinance details the requirements to deal with chemical wastes. General requirements are given as follows: Suitable containers should be used to hold the chemical wastes to avoid leakage or spillage during 	To minimise impact from accidental spillage	Contractor	All works area	Construction phase	WPCO, EIAO-TM, Waste Disposal Ordinance (WDO), Waste Disposal (Chemical Waste) (General) Regulation	Implemented





EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	 storage, handling and transport. Chemical waste containers should be suitably labelled, to notify and warn the personnel who are handling the wastes, to avoid accidents. Storage area should be selected at a safe location on site and adequate space should be allocated to the storage area. 						
S5.8.22 – S5.8.24	Groundwater from Contaminated Areas, Contaminated Site Runoff and Wastewater from Land Decontamination Remediation of contaminated land should be properly conducted following the recommendations of Land Contamination Assessment to be conducted in future. Any excavated contaminated material and exposed contaminated surface should be properly housed and covered to avoid generation of contaminated runoff. Open stockpiling of contaminated materials should not be allowed. Any contaminated runoff or wastewater generated from the land decontamination processes should be properly collected and diverted to wastewater treatment facilities (WTF) as necessary. The WTF shall deploy suitable treatment processes (e.g., oil interceptor/ activated carbon) to reduce the pollution level to an acceptable standard and remove any prohibited substances (such as total petroleum hydrocarbon) to an undetectable range. All treated effluent from the wastewater treatment system shall meet the requirements as stated in TM-DSS and should be either discharged into the foul sewers or tankered away for proper disposal. No direct discharge of groundwater from contaminated areas should be adopted. Prior to any excavation works within the potentially contaminated areas, the baseline groundwater quality in these areas should be reviewed based on the past relevant site investigation data and	To minimise impact from groundwater from contaminated areas, contaminated site run-off/ wastewater from land decontamination	Contractor	All works area confirmed with land contamination	Construction phase	WPCO, EIAO- TM, TM-DSS, Guidance Note for Contaminated Land Assessment	N/A





any additional groundwater quality measurements to be performed with reference to Guidance Note for Contaminated Land Assessment and Remediation and the review results should be submitted to EPD for examination. If the review results indicated that the groundwater to be generated from the excavation works would be contaminated, this contaminated groundwater should be either properly treated or properly recharged into the ground in compliance with the requirements of the TM-DSS. If wastewater treatment is to be deployed for treating the contaminated groundwater, the wastewater treatment unit shall deploy suitable treatment processes (e.g. oil interceptor / activated carbon) to reduce the pollution level to an acceptable standard and remove any prohibited substances (such as total petroleum hydrocarbon) to an undetectable range. All treated effluent from the wastewater treatment plant shall meet the requirements as stated in the TM-DSS and should be either discharged into the foul sewers or tankered away for proper disposal. If deployment of wastewater treatment plant shall meet for handling the contaminated groundwater, groundwater recharging wells should be installed as appropriate for recharging when should be installed as appropriate for recharging the contaminated groundwater quality will not be affected by the recharge operation as indicated in section 2.3 of TM-DSS. The baseline groundwater quality should be determined prior to the selection of the recharge wells. and submit a working plan to EPD for agreement.	EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
romation levels of groundwater to be recharged shall		be performed with reference to Guidance Note for Contaminated Land Assessment and Remediation and the review results should be submitted to EPD for examination. If the review results indicated that the groundwater to be generated from the excavation works would be contaminated, this contaminated groundwater should be either properly treated or properly recharged into the ground in compliance with the requirements of the TM-DSS. If wastewater treatment is to be deployed for treating the contaminated groundwater, the wastewater treatment unit shall deploy suitable treatment processes (e.g. oil interceptor / activated carbon) to reduce the pollution level to an acceptable standard and remove any prohibited substances (such as total petroleum hydrocarbon) to an undetectable range. All treated effluent from the wastewater treatment plant shall meet the requirements as stated in the TM-DSS and should be either discharged into the foul sewers or tankered away for proper disposal. If deployment of wastewater treatment is not feasible for handling the contaminated groundwater, groundwater recharging wells should be installed as appropriate for recharging the contaminated groundwater back into the ground. The recharging wells should be selected at places where the groundwater quality will not be affected by the recharge operation as indicated in section 2.3 of TM-DSS. The baseline groundwater quality should be determined prior to the selection of the recharge wells,						





EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	groundwater at the recharge well. Groundwater monitoring wells should be installed near the recharge points to monitor the effectiveness of the recharge wells and to ensure that no likelihood of increase of groundwater level and transfer of pollutants beyond the site boundary. Prior to recharge, free products should be removed as necessary by installing the petrol interceptor. The Contractor should apply for a discharge licence under the WPCO through the Regional Office of EPD for groundwater recharge operation or discharge of treated groundwater.						
Waste Man	agement Implication (Construction Phase)						
S7.5.3	Recommendations for good site practices during the construction phase include: Nomination of approved personnel, such as a site manager, to be responsible for implementation of good site practices, arrangements for waste collection and effective disposal to an appropriate facility; Training of site personnel in site cleanliness, concepts of waste reduction, reuse and recycling, proper waste management and chemical waste handling procedures; Provision of sufficient waste reception/ disposal points, and regular collection of waste; Adoption of appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers; Provision of regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors; Adoption of a recording system for the amount of	To avoid and minimize impacts arising from waste management	Contractor	All works areas	Construction phase	Waste Disposal Ordinance (WDO) and Public Cleansing and Prevention of Nuisances Regulation (Cap. 132BK)	Implemented after observation





EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	disposal sites); and						
	• Preparation of Waste Management Plan (WMP), as part of the Environmental Management Plan (EMP)						
S7.5.4	Recommendations to achieve waste reduction are as follow: Segregate and store different types of construction related waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal;	To minimize waste generation	Contractor	All works areas	Construction phase	WDO	Implemented
	• Provide separate labelled bins to segregate recyclable waste such as aluminium cans from other general refuse generated by the work force, and to encourage collection by individual collectors;						
	• Recycle any unused chemicals or those with remaining functional capacity;						
	Maximise the use of reusable steel formwork to reduce the amount of C&D materials;						
	Adopt proper storage and site practices to minimise the potential for damage to, or contamination of construction materials;						
	Plan the delivery and stock of construction materials carefully to minimise the amount of waste generated; and						
	Minimize over ordering and wastage through careful planning during purchasing of construction materials.						
S7.5.6	To minimise the impact resulting from collection and transportation of C&D materials as far as practicable, C&D waste, such as wood, plastic, steel and other metals should be reused or recycled and, as a last resort, disposed to landfill. A suitable area should be designated within the site for temporary stockpiling of C&D materials and to facilitate the sorting process.	To minimise the disposal of C&D waste	Contractor	All works areas	Construction phase	WDO	Implemented





EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
S7.5.6	 Within the stockpile areas, the following measures should be taken to control potential environmental impacts or nuisance: Proper handling and storage of waste such as soil by means of covers and/or water spraying system to minimise the potential environmental impact and to prevent materials from wind-blown or being washed away; Covering materials during heavy rainfall; Locating stockpiles to minimise potential visual impacts; Minimising land intake of stockpile areas as far as possible; Adopting GPS or equivalent system for tracking and monitoring of all dump trucks engaged for the Project in recording their travel routings and parking locations to prohibit illegal dumping and landfilling of C&D materials; and Keeping record and analysis of data collected by GPS or equivalent system related to travel routings and parking locations of dump trucks engaged on site. 	To avoid and minimize impacts arising from waste management	Contractor	All works areas	Construction phase	WDO	Implemented
\$7.5.7 to \$7.5.9	General refuse should be stored in enclosed bins or compaction units separate from C&D materials and chemical waste. A reputable waste collector should be employed by the contractor to remove general refuse from the site, separately from C&D materials and chemical wastes. An enclosed and covered area is preferred to reduce the occurrence of 'wind blown' light materials. The recyclable component of general refuse, such as aluminium cans, paper and cleansed plastic containers shall be separated from other waste. Provision and collection of recycling bins for different types of recyclable waste shall	To avoid and minimize impacts arising from waste management	Contractor	All works areas	Construction phase	WDO	Implemented





EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	be set up by the Contractor. The Contractor shall also be responsible for arranging recycling companies to collect these materials.						
	The Contractor shall carry out an education programme for workers in avoiding, reducing, reusing and recycling of materials generation. Posters and leaflets advising on the use of the bins shall also be provided in the sites as reminders.						
S7.5.12	If chemical wastes were to be produced at the construction site, the Contractor would be required to register with the EPD as a Chemical Waste Producer, and to follow the guidelines stated in the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.	To avoid and minimize impacts arising from waste management	Contractor	All works areas	Construction phase	WDO	Implemented
	Appropriate containers with proper labels should be used for storage of chemical wastes. Chemical wastes should be collected and delivered to designated outlet by a licensed 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 CWTC, or another licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.						
	Any unused chemicals or those with remaining functional capacity should be collected for reuse as far as practicable.						
S7.5.14	The sediment should be excavated, handled, transported and disposed of in a manner that would minimise adverse environmental impacts. For minimization of sediment disposal, beneficial reuse will be considered on site as far as practicable during the construction stage before the disposal of excavated sediment.	To avoid and minimize impacts arising from waste management	Contractor	All works areas	Construction phase	APCO WDO	N/A





EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	Requirements of the Air Pollution Ordinance (Construction Dust) Regulation, where relevant, shall be adhered to during excavation, transportation and disposal of sediments.						
	In order to minimise the exposure to contaminated materials, workers shall, when necessary, wear appropriate personal protective equipment (PPE) when handling contaminated sediments. Adequate washing and cleaning facilities shall also be provided on site.	To avoid and minimize impacts arising from waste management	Contractor	All works areas	Construction phase	WDO	N/A
	Stockpiling of contaminated sediments shall be avoided as far as possible. If temporary stockpiling of contaminated sediments is unavoidable, the excavated sediment shall be covered by tarpaulin and the area shall be placed within earth bunds or sandbags to prevent leachate from entering the ground, nearby drains and/or surrounding water bodies. The stockpiles shall be completely paved or covered by linings in order to avoid contamination to underlying soil or groundwater. Separate and clearly defined areas shall be provided for stockpiling of contaminated and uncontaminated materials. Leachate, if any, shall be collected and discharged according to the Water Pollution Control Ordinance (WPCO).	To avoid and minimize impacts arising from waste management	Contractor	All works areas	Construction phase	WPCO	N/A
	In order to minimise the potential odour / dust emissions during excavation and transportation of the sediment, the excavated sediments shall be wetted during excavation / material handling and shall be properly covered when placed on trucks or barges. Loading of the excavated sediment to the barge shall be controlled to avoid splashing and overflowing of the sediment slurry to the surrounding water.	To avoid and minimize impacts arising from waste management	Contractor	All works areas	Construction phase	WDO APCO	N/A





EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
Land Cont	amination						
S8.9.3	To minimise environmental impacts arising from the handling of potentially contaminated materials, the following environmental precautionary measures are recommended to be utilised during the course of any required site remediation: • Excavation profiles must be properly designed and executed with attention to the relevant requirements for environment, health and safety; • Establish and maintain a Health and Safety Plan with the information below before commencement of the SI: (a) Instruction of works on work procedures, safe practices, emergency duties, and applicable regulations; (b) Regularly scheduled meetings of the workers in which the possible hazards, problems of the job, and related safe practices are emphasized and discussed; (c) Good housekeeping practices; and (d) Availability of and instruction in the location, use and maintenance of personal protective equipment. • Excavation shall be carried out during dry season as far as possible to minimise contaminated runoff from contaminated soils; • Supply of suitable clean backfill material (or treated soil) after excavation; • Stockpiling site(s) shall be lined with impermeable sheeting and bunded. Stockpiles shall be fully covered by impermeable sheeting to reduce dust emission. If this is not practicable due to frequent usage, regular watering shall be applied. However, watering shall be avoided on stockpiles of contaminated soil to minimise	To control land remediation work	Contractor	Area identified with land contamination	Prior to the commencement of construction works at the contaminated areas	Land Assessment	





EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	 contaminated runoff; Vehicles containing any excavated materials shall be suitably covered to limit potential dust emissions or contaminated wastewater run-off, and truck bodies and tailgates shall be sealed to prevent any discharge during transport or during wet conditions; Speed control for the trucks carrying contaminated materials shall be enforced; Vehicle wheel and body washing facilities at the site exist points shall be established and used; and Pollution control measures for air emissions (e.g. from biopile blower and handling of cement), noise emissions (e.g. from blower or earthmoving equipment), and water discharges (e.g. runoff control from treatment facility) shall be implemented and complied with relevant regulations and guidelines. 						
Landscape	and Visual Impact (Construction Phase)						
S9.8.1	Trees unavoidably affected by the works should be transplanted as far as possible in accordance with DEVB TC(W) 7/2015 – Tree Preservation or LAO PN 7/2007 - Tree Preservation and Tree Removal Application for Building Development in Private Projects where applicable.	To transplant affected trees	Contractor	All works areas	Construction phase	DEVB TC(W) No. 7/2015 or LAO PN 7/2007 where applicable	N/A
S9.8.1	Control of night-time lighting glare.	To minimize the Landscape and visual	Contractor	All works areas	Construction phase	TM-EIAO	N/A
S9.8.1	Erection of decorative screen hoarding which should be compatible with the surrounding setting.	impact on surrounding setting	Contractor	All works areas	Construction phase	TM-EIAO	N/A
S9.8.1	Management of facilities on work sites by controlling the height and disposition/arrangement of all facilities on the works site to minimize visual impact to adjacent VSRs.	To minimize visual impact to adjacent VSRs.	Contractor	All works areas	Construction phase	-	Implemented

Siu Ho Wan Depot Property Development Cable Bridges and Associated Civil Works for Cable Diversion Monthly EM&A Report (December 2023)





EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
S9.8.1	All hard and soft landscape areas disturbed temporarily	To minimize	Contractor	All works areas	Construction phase	=	To be
	during construction should be reinstated on like-to-like	the landscape					implemented
	basis, to the satisfaction of the relevant Government	impact on					
	Departments.	surrounding					
		setting					





Appendix L

Monitoring Schedule of the Reporting Month





Consultancy Agreement No.NEX/1062

Siu Ho Wan Station and Siu Ho Wan Depot Replanning Works - Advance Constuction Works Dust and Noise Monitoring Schedule in December 2023

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





Appendix M Monitoring Schedule of the Coming Month





Consultancy Agreement No.NEX/1062 Siu Ho Wan Station and Siu Ho Wan Depot Replanning Works - Advance Constuction Works Tentative Dust and Noise Monitoring Schedule in January 2024

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

The schedule is subject to change due to unforeseeable circumstances (e.g. adverse weather, etc)

Appendix C

Monthly EM&A Report for December 2023
Vehicular Access Bridge, Demolition of Paint Shop
and Construction of EV Stabling Tracks
Works Contract 1733



MTR Corporation Limited
Siu Ho Wan Depot Property Development Vehicular Access Bridge,
Demolition of Paint Shop and Construction
of EV Stabling Tracks
Monthly EM&A Report
(Period from 1 to 31 December 2023)

Issue and Revision Record

Revision	Description	Prepared by	Checked by	Approved by	Date
01	Submission	Various	Roy Hung A	Grace Fung	January 2024

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EXECUTIVE SUMMARY

SGS Hong Kong Limited. ("SGS") has been commissioned by the Build King Civil Engineering Limited, to undertake the Environmental Team (ET) services to carry out environmental monitoring and audit (EM&A) for Vehicular Access Bridge, Demolition of Paint Shop and Construction of EV Stabling Tracks (hereafter referred to as the "Project").

This is the 21st monthly EM&A report for the project submitted under Condition 3.4 of the Environmental Permit (No. EP-588/2021). This report summarises the findings on EM&A during the period from 1 to 31 December 2023.

Exceedance of Action and Limit Levels

The summary of measured 1-hour TSP level is presented in **Section 3**.

No exceedance of Action or Limit Levels for 1-hour TSP levels were recorded in the Reporting Period.

Waste Management

Details of waste management are presented in Section 4.

Record of Complaints

There was no record of complaints received in the Reporting Period.

Record of Notification of Summons and Successful Prosecutions

There were no record of notification of summons and successful prosecution in the Reporting Period.

Reporting Changes

There are no reporting changes.

Site inspection

Weekly environmental site inspections were conducted during the reporting period. A joint site inspection with the IEC was carried out on 11 December 2023. Non-compliance was not observed. Observation and recommendation were reported during the site inspection. Items are rectified accordingly in the reporting period. The environmental performance of the Project was therefore considered satisfactory.

Future Key Issues

- Water Main Diversion
- LV Diversion
- Construction of EV Stabling Track and Vehicular Access Bridge
- Road Work



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- Concrete Pavement
- E & M Work
- Construction of Chain Link Fence
- Site clearance
- Relocation of Track Material



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1. PROJECT INFORMATION

The Project involves the construction of vehicular access bridge, demolition of paint shop and construction of engineering vehicle (EV) stabling tracks.

The (AEIAR-214/2017) "Siu Ho Wan Station and Siu Ho Wan Depot Replanning Works" Environmental Impact Assessment Report was approved with conditions by the Environmental Protection Department (EPD) on 29 Nov 2017. The latest Environmental Permit (No. EP-588/2021) was issued by the EPD on 22 March 2021.

SGS Hong Kong Limited (SGS) has been commissioned by Build King Civil Engineering Limited to undertake the Environmental Team (ET) services to carry out environmental monitoring and audit for this project.

The Project covers the following construction activities:

- Site clearance & hoarding /UU/ Cable Trenches
- Paint shop demolition
- Excavation
- Substructure
- Backfilling
- Superstructure
- EV Tracks Formation and Track installation

The construction programme is presented in **Appendix A**

A summary of the major construction activities undertaken in this reporting period (from 1 to 31 December 2023) is shown in below:

- Water Main Diversion
- LV Diversion
- Construction of EV Stabling Track and Vehicular Access Bridge
- Road Work
- E & M Work

The project organizational chart specifying management structure and contact details are shown in **Appendix B**.



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A summary of the valid permits, licenses, and /or notifications on environmental protection for this Project is presented in **Table 1.1**.

Table 1.1 Summary of Status of Required Submission for EP-588/2021 for the Project

Type of Permit/ License	Permit No. / Account No.	Valid From	Expiry Date	Status
Environmental Permit	EP-588/2021	22 Mar 2021	N/A	Valid
Wastewater Discharge License	WT00041829- 2022	31 Aug 2022	31 Aug 2027	Valid
Notification of Construction Works under the Air Pollution Control (Construction Dust) Regulation	Ref.: 477410	N/A	N/A	Notification submitted on 3 Mar 2022
Chemical Waste Producer Registration	WPN5213-961- B2653-01	15 Feb 2022	N/A	Valid
Billing Account for Disposal of Construction Waste	7043460	18 Mar 2022	N/A	Valid
Construction	GW-RS1097-23	14 Dec 2023	15 June 2024	Valid
Noise Permit	GW-RS0596-23	21 July 2023	19 Jan 2024	Valid



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2. ENVIRONMENTAL STATUS

Environmental permit (EP) conditions under the EIAO, submission status under the EP and implementation status of mitigation measures had been reviewed and implemented on schedule. The status of required submissions under the EP (No. EP-588/2021) as of the reporting period for the Project are summarised in **Table 2.1**.

Table 2.1 Summary of Status of Required Submission for EP-588/2021 for the Project

EP Condition	Submission	Submission Date
1.12	Commencement Date of Construction	11 Jun 2021 (1st submission)
		12 Jul 2021 (2nd submission)
		12 Aug 2021 (3rd submission)
2.7	Construction Works Phasing Schedule	1 Nov 2021 (1st submission)
		20 Dec 2021 (2nd submission)
		29 Dec 2021 (Deposited)
		9 Oct 2023 (1st submission with updated Phase 1 works)
2.8	Environmental Permit Submission Schedule	12 Aug 2021
		10 Sep 2021 (Deposited)
2.9	Management Organization	1 Nov 2021 (1st Submission)
		20 Dec 2021 (2nd Submission)
		21 Mar 2022 (3rd Submission)
		9 Aug 2022 (4th Submission)
		16 Nov 2022 (5th Submission)
		18 Sep 2023 (6th submission)
2.10	Construction Noise Mitigation Plan	1 Nov 2021 (1st submission for advanced work)
		20 Dec 2021 (2nd submission



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		for advanced work)
		28 Dec 2021 (3rd submission
		for advanced work)
		30 Dec 2022 (1st submission for Phase 1 work)
		29 Mar 2023 (2nd submission for Phase 1 work)
		18 May 2023 (3rd submission for Phase 1 work)
		28 Jul 2023 (4th submission for Phase 1 works)
		30 Oct 2023 (5th submission for Phase 1 works)
		6 Dec 2023 (6th submission for
		Phase 1 works)
		8 Dec 2023 (Deposited)
2.11	Noise Mitigation Plan	31 Mar 2023 (1st submission)
		31 Jul 2023 (2nd submission)
		20 Oct 2023 (3rd submission)
2.13	Waste Management Plan	1 Nov 2021 (1st submission)
		20 Dec 2021 (2nd submission)
		28 Dec 2021 (Deposited)
		30 Jun 2023 (1st submission for Phase 1 work)
		1 Aug 2023 (2nd submission for Phase 1 works)
		31 Aug 2023 (Deposited for Phase 1 works)
2.15	Landscape and Visual Plan	27 Apr 2023 (1st submission)



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		27 Jul 2023 (2nd submission)
		20 Oct 2023 (3rd submission)
		8 Dec 2023 (Approved)
3.3	Baseline Monitoring Report	1 Nov 2021 16 Nov 2021 (Deposited)
3.4	Monthly EM&A Report (Apr 2022 – May 2023)	Submitted within 10 working days after the end of the reporting month
	Monthly Monitoring Report (July 2023)	This report submission
4.2	Dedicated Internet Website	12 Jan 2022
		25 Jul 2023 (update address)

The drawings showing the project layout and the location of the monitoring station are attached in **Appendix C** and **Appendix D**, respectively. A summary of the monitoring location is shown in **Table 2.2**.

Table 2.2 Summary of the location of the monitoring station

Air Sensitive Receiver (ASR) ID No. in EIA	Monitoring Station	Description
A2	DM1	Siu Ho Wan Government Maintenance Depot



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3. AIR QUALITY MONITORING

MONITORING REQUIREMENTS, FREQUENCY AND DURATION

The impact monitoring had been carried out in accordance with Section 2.6 of the approved EM&A Manual, with sampling frequency of at least 3 times in every 6 days undertaken, to determine the 1-hour total suspended particulates (TSP) levels at the monitoring locations in the reporting period.

General meteorological conditions (wind speed, direction and precipitation) and notes regarding any significant adjacent dust producing sources had also been recorded throughout the impact monitoring period.

Monitoring Equipment

Portable direct reading dust meter was used to carry out the 1-hour TSP monitoring. Portable direct reading dust meters used in this monitoring were proven to the IEC to be capable of achieving comparable result as that of the HVS and, thus, were used for sampling. The equipment used for 1-hour TSP measurement during the reporting month are summarised in **Table 3.1**.

Table 3.1 Construction Dust Monitoring Equipment

Measuring	Monitoring		Brand		Model No.	Calibration
Parameter	Equipme	nt				Date
1-hour TSP	Portable	direct	Sibata	Digital	A.005.16a	26 April 2023
	reading dust	meter	Dust	Monitor		
	(1-hour TSP)		(Model	No. LD-		
			3B)			
1-hour TSP	Portable	direct	Sibata	Digital	A.005.09a	15 August 2023
	reading dust	meter	Dust	Monitor		
	(1-hour TSP)		(Model	No. LD-		
			3)			

The portable direct reading dust meter was calibrated at 1-year interval against a High Volume Sampler, TE-5170. Copies of calibration certificates of the portable direct reading dust meter are presented in **Appendix E**.

Field Monitoring Methodology

The 1-hour TSP measurement followed manufacturer's instruction manual. Before initiating a measurement, zeroing the Portable direct reading dust meter was carried out to ensure maximum accuracy of concentration measurements.

The 1-hour TSP was sampled by drawing air into the portable direct reading dust meter where particular concentrations were measured instantaneously with an in-built silicon detector sensing light scattered by



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the particulates in the sampled air. Continuous TSP levels were indicated and logged by a built-in data logger compatible with Windows based program to facilitate data collection, analysis and reporting.

Monitoring Location

Location of the designated dust monitoring station is described in Table 3.2.

Table 3.2 Location of the designated dust monitoring station

Monitoring Station ID	Dust Monitoring Station
DM1	Siu Ho Wan Government Maintenance Depot

Result Summary

Dust impact monitoring was carried out at DM1 on 5, 11, 16, 21 and 27 December 2023 during the reporting month (**Appendix L**). According to our field observations, the major dust sources identified included vehicular emissions from North Lantau Highway and Cheung Tung Road. Gentle wind was recorded throughout the monitoring period, with gentle to strong wind recorded occasionally.

The results for 1 - hour TSP are summarized in **Table 3.3**. The measurement data is presented in **Appendix F**

Table 3.3 Summary of 1-hour TSP Monitoring Results

N	Ionitoring Location	Range (µg/m3)	Action Level	Limit Level	No. of
			(µg/m3)	(µg/m3)	Exceedances
	DM1	59.6 – 64.1	294.7	500	0



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4. WASTE MANAGEMENT

The waste generated from this Project includes inert C&D materials, and non-inert C&D materials. Non-inert C&D materials are made up of general refuse, vegetative wastes and recyclable wastes such as plastics and paper/ cardboard packaging waste. Metals materials generated from the project are also grouped into non-inert C&D materials as the materials were not disposed of with other inert C&D materials. With reference to relevant handling records and trip tickets of this Project, the quantities of different types of waste generated in the reporting month are summarized in Table 4.1. Details of cumulative waste management data are presented as a waste flow table in **Appendix G.**

Table 4.1 Quantities of waste generated from the Project

Month	Actual Quantities of Inert C&D Materials Generated Monthly				Actual Quantities of C&D Materials Generated Monthly			Monthly			
	Total	Hard	Reused	Reused	Disposal	Imported	Metals	Paper /	Plastics	Chemical	Other,
	Quantity	Rock	in the	in other	as	Fill		Cardboard	(See	Waste	e.g.
	Generated	and	Contract	Projects	Public			Packaging	note 3)		general
		Large			Fill						refuse
		Broken									
		Concrete									
	[in Tonne]	[in	[in	[in	[in	[in	[in	[in kg]	[in kg]	[in kg]	[in
		Tonne]	Tonne]	Tonne]	Tonne]	Tonne]	Tonne]				Tonne]
Dec	99.3	0.00	0.00	0.00	99.3	0.00	0.00	0.00	0.00	0.00	14.09

^{*}Data extracted from construction waste transaction record from EPD website.

All dump trucks for C&D materials transportation and disposal are equipped with Global Positioning System (GPS) for real time tracking and monitoring their travel routings and parking locations in order to avoid illegal dumping or landfilling of C&D materials.

The GPS data including travel routings of dump trucks was reviewed by the ET and IEC, and no illegal dumping activities were suspected.



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5. SUMMARY OF COMPLAINTS, NOTIFICATION OF SUMMONS AND PROSECUTIONS

The Environmental Complaint Handling Procedure is shown in Appendix H.

Should non-compliance of the criteria occur, action in accordance with the Event and Action Plan in **Appendix I** shall be carried out.

No exceedance of the Action and Limit Levels of 1-hour TSP was recorded during the reporting month.

No complaint or non-compliance was reported in the reporting month.

No notification of summons and prosecution was received in the reporting period.

Statistics on complaints, notifications of summons and successful prosecutions are summarized in **Appendix J**.



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6. EM&A SITE INSPECTION

Site inspections were carried out on a weekly basis to monitor the implementation of proper environmental pollution control and mitigation measures under the Contract. In the reporting period, four (4) site inspections were carried out on 4, 11, 18 and 27 December 2023. One joint site inspection with the IEC also undertaken on 11 December 2023 with engineer, IEC, contractor and contractor's ET. No observations and reminders were reported during the weekly site inspection. Key observations during the site inspections are summarized in **Table 6.1**.

Table 6.1 Site Observations

Date	Observation or Reminder	Follow-up Status
4 December 2023	No particular findings during inspection.	N/A
11 December 2023	No particular findings during inspection.	N/A
18 December 2023	No particular findings during inspection.	N/A
27 December 2023	No particular findings during inspection.	N/A

According to the EIA Study Report, Environmental Permit, contract documents and EM&A Manual, the mitigation measures detailed in the documents are implemented as much as practical during the reporting period. An updated Implementation Status of Environmental Mitigation Measures (EMIS) is provided in **Appendix K**.



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7. FUTURE KEY ISSUES

Work to be undertaken in the next reporting month are:

- Water Main Diversion
- LV Diversion
- Construction of EV Stabling Track and Vehicular Access Bridge
- Road Work
- Concrete Pavement
- E & M Work
- Construction of Chain Link Fence
- Site clearance
- Relocation of Track Material

The tentative schedule of regular 1-hour TSP monitoring in the next reporting period is presented in Appendix M.



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8. CONCLUSION AND RECOMMENDATION

This 21st monthly EM&A Report presents the EM&A works undertaken during the period from 1 December to 31 December 2023 in accordance with the EM&A Manual and the requirement under EP-588/2021.

Air quality (including 1-hour TSP) impact monitoring was carried out in the reporting period. No exceedance of the Action and Limit Levels was recorded for air quality impact monitoring during the reporting period.

Weekly environmental site inspections were conducted during the reporting period. A joint site inspection with the IEC was carried out on 11 December 2023. Non-compliance was not observed. Observation and recommendation were reported during the site inspection. Items are rectified accordingly in the reporting period. The environmental performance of the Project was therefore considered satisfactory.

No complaint or non-compliance was reported in the reporting month.

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

The ET will keep track on the construction works to confirm compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

The proposed mitigation measures were properly implemented and were considered effective and efficient in pollution control.



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APPENDIX A – CONSTRUCTION PROGRAMME



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Construction Activities	2022									2	2023					2024				
Construction Activities	Α	М	J	J	Α	S	0 0	I D	J	F	M /	A N	l J	J	Α	S	0	N D	J	F M
Contract 1733 - Vehicular Access Bridge, Demolition of Paint Shop and Construction of EV Stabling Tracks																				
Site Clerance & Hoarding / UU / Cable Trenches							\top					Т					\Box			
Paint Shop Demolition							Т													
Excavation							I					I					\Box			
Substructure												\top	Т							
Backfilling							Т					Т	Т							
Superstructure							\perp					Τ					\Box			
EV Tracks - Formation and Track Installation														Т						



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APPENDIX B - PROJECT ORGANIZATION CHART



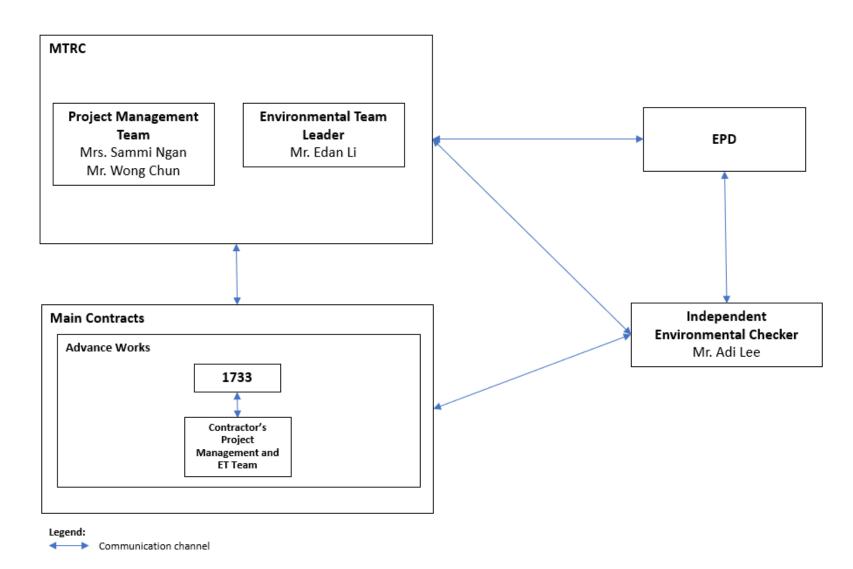
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MTR's Contact:

MTRC - Project Management Team		
Position	Name	Telephone
Chief Construction Manager - OYB	Mrs. Sammi Ngan	2208 3753
Senior Construction Manager - Civil	Mr. Wong Chun	2208 3684

MTRC - Environmental Team		
Position	Name	Telephone
Environmental Team Leader	Mr. Edan Li	2688 1179
Environmental Team Member	Mr. Cyrus Lau	2688 1585

Meinhardt Infrastructure and Environment Limited - IEC							
Position	Name	Telephone					
Independent Environmental Checker	Mr. Adi Lee	2859 5443					
IEC Team Member	Mr. Sylar Tsui	2859 5225					

Contractor's Contact

Main Works Contract	Description	Contractor	Position	Name	Telephone
	Vehicular access bridge,	Build King Civil	Project Manager	Andy Yu	9648 4896
1733	demolition of paint shop and	Engineering	Environmental Manager	Louisa Fung	9271 5370
	construction of engineering vehicle stabling tracks		Environmental Team Leader	Roy Hung	2204 8305



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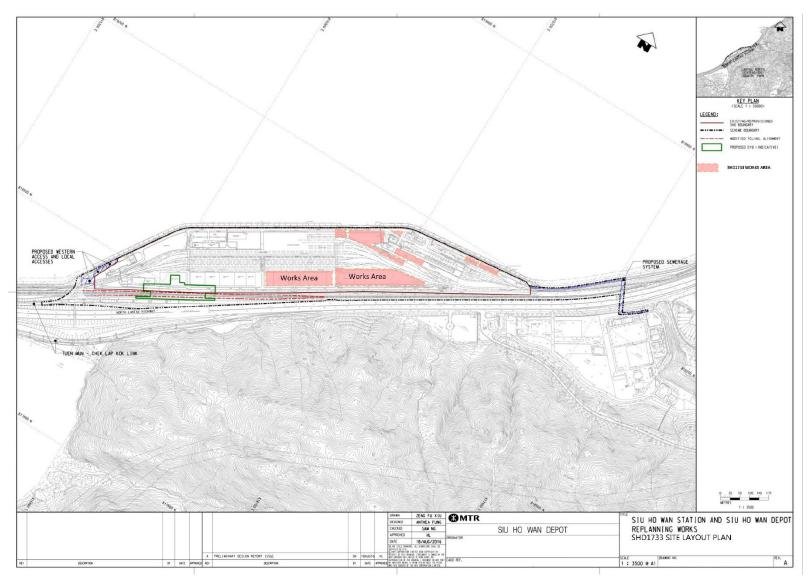
APPENDIX C – ALIGNMENT AND WORKS AREA FOR CONTRACT NO. 1733



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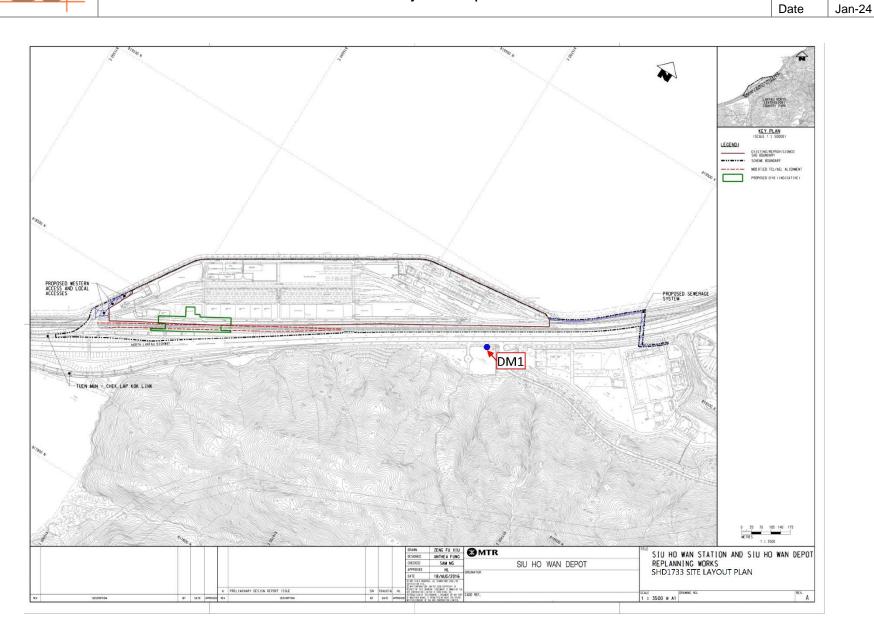
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APPENDIX D - LOCATION PLAN OF AIR QUALITY MONITORING STATION



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APPENDIX E - CALIBRATION CERTIFICATES (AIR QUALITY MONITORING EQUIPMENT)



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EQUIPMENT CALIBRATION RECORD

Manufacturer/Brand: LD-3B	Type:			Laser Dus	t Monitor			
A.005.16a Sensitivity Adjustment Scale Setting: S21 CPM	Manufacti	urer/Brand:		SIBATA	•			
Sensitivity Adjustment Scale Setting: S21 CPM	Model No	.:		LD-3B	•			
Standard Equimment High Volume Sampler	Equipmen	t No.:		A.005.16a	_			
Standard Equimment Equipment:	Sensitivity	Adjustment Sca	le Setting:	521 CPM				
Equipment: High Volume Sampler Pedestrian Plaza	Operator:			WS CHAN	I			_
Pedestrian Plaza TE-5170 TE-5170 Te-5170 Total Count/ Minute Temp (°C) R.H.(%) R	Standard F	Equimment						
Pedestrian Plaza TE-5170 TE-5170 Te-5170 Total Count/ Minute Temp (°C) R.H.(%) R		-						
TE-5170		t:				ler		-
Calibration Date: 10273					n Plaza			-
Calibration Date: 4-Apr-23								-
Calibration Result Sensitivity Adjustment Scale Setting (Before Calibration): 521 CPM								-
Sensitivity Adjustment Scale Setting (Before Calibration): 521 CPM	Last Calibr	ation Date:		4-Apr-23				-
Sensitivity Adjustment Scale Setting (Before Calibration): 521 CPM								
Sensitivity Adjustment Scale Setting (After Calibration): 521 CPM	Calibration	n Result						
Sensitivity Adjustment Scale Setting (After Calibration): 521 CPM								
Hour		-			-			-
(dd/mm/yy) Temp (°C) R.H.(%) (mg/m3) Minute ③ 1 26/04/23 9:00-10:00 23.5 65 0.0490 1860 31.00 2 26/04/23 10:00-11:00 23.5 65 0.0500 1940 32.33 3 26/04/23 11:00-12:00 23.5 65 0.0520 2020 33.67 4 26/04/23 12:00-13:00 23.5 65 0.0540 2150 35.83 Note: ① Monitoring data was measured by High Volume Sampler ② Total Count was logged by Laser Dust Monitor ③ Count/minute was calculated by (Total Count/60) By Linear Regression of Y on X Slope (K-factor): 0.0015	Sensitivity	Adjustment Sca	le Setting (After	Calibratio	n):		521	CPM
(dd/mm/yy) Temp (°C) R.H.(%) (mg/m3) Minute ③ 1 26/04/23 9:00-10:00 23.5 65 0.0490 1860 31.00 2 26/04/23 10:00-11:00 23.5 65 0.0500 1940 32.33 3 26/04/23 11:00-12:00 23.5 65 0.0520 2020 33.67 4 26/04/23 12:00-13:00 23.5 65 0.0540 2150 35.83 Note: ① Monitoring data was measured by High Volume Sampler ② Total Count was logged by Laser Dust Monitor ③ Count/minute was calculated by (Total Count/60) By Linear Regression of Y on X Slope (K-factor): 0.0015	Hour	Date	Time	Ambient	Condition	Concentration(1)	Total Count(2)	Count/
Y-axis X-axis	rioui		Time			_	10121 004111	
1 26/04/23 9:00-10:00 23.5 65 0.0490 1860 31.00 2 26/04/23 10:00-11:00 23.5 65 0.0500 1940 32.33 3 26/04/23 11:00-12:00 23.5 65 0.0520 2020 33.67 4 26/04/23 12:00-13:00 23.5 65 0.0540 2150 35.83 Note: ① Monitoring data was measured by High Volume Sampler ② Total Count was logged by Laser Dust Monitor ③ Count/minute was calculated by (Total Count/60) By Linear Regression of Y on X Slope (K-factor): 0.0015		(==,,,,,,						X-axis
3 26/04/23 11:00-12:00 23.5 65 0.0520 2020 33.67 4 26/04/23 12:00-13:00 23.5 65 0.0540 2150 35.83 Note: ① Monitoring data was measured by High Volume Sampler ② Total Count was logged by Laser Dust Monitor ③ Count/minute was calculated by (Total Count/60) By Linear Regression of Y on X Slope (K-factor): 0.0015	1	26/04/23	9:00-10:00	23.5	65	0.0490	1860	31.00
4 26/04/23 12:00-13:00 23.5 65 0.0540 2150 35.83 Note: ① Monitoring data was measured by High Volume Sampler ② Total Count was logged by Laser Dust Monitor ③ Count/minute was calculated by (Total Count/60) By Linear Regression of Y on X Slope (K-factor): 0.0015	$\overline{}$				65		1940	
Note: ① Monitoring data was measured by High Volume Sampler ② Total Count was logged by Laser Dust Monitor ③ Count/minute was calculated by (Total Count/60) By Linear Regression of Y on X Slope (K-factor): 0.0015	3	26/04/23	11:00-12:00	23.5	65	0.0520	2020	33.67
② Total Count was logged by Laser Dust Monitor ③ Count/minute was calculated by (Total Count/60) By Linear Regression of Y on X Slope (K-factor): 0.0015	4	26/04/23	12:00-13:00	23.5	65	0.0540	2150	35.83
(3) Count/minute was calculated by (Total Count/60) By Linear Regression of Y on X Slope (K-factor): 0.0015	Note:	1 Monitoring	data was measu	red by Hig	h Volume	Sampler		
By Linear Regression of Y on X Slope (K-factor): 0.0015								
Slope (K-factor): 0.0015		(3) Count/minu	ite was calculate	d by (Tota	l Count/60	0)		
Slope (K-factor): 0.0015	Declinant	Dif V -	V					
	by Linear i			0.0015				
Correlation Coefficient.						•		
		Correlation toe	maent.	0.5557				
Validity of Calibration Record: 26-Apr-24	Validity of Calibration Record: 26-Apr-24							
Remarks:	Remarks:							
2A						d		
QC Reviewer: Y.W. Fung Signature: Date: 28-Apr-23	OC	Reviewer [,]	Y.W. Fung		Signature	9/	Date:	28-∆nr-23



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EQUIPMENT CALIBRATION RECORD

Type: Manufacturer/Brand: Model No.: Equipment No.: Sensitivity Adjustment Scale Setting:			Laser Dust Monitor SIBATA LD-3 A.005.09a 797 CPM					
Operator:				I			,	
Standard E	quimment							
Equipment: Venue: Model No.: Serial No.: Last Calibration Date:			High Volume Sampler Ma Wan Chung Village TE-5170 3383 4-Aug-23					
Calibration	n Result							
Sensitivity	Adjustment Sca		etting (Before Calibration): etting (After Calibration):			797 797	СРМ	
Hour	Date	Time	Ambient	Condition	Concentration 1	Total Count	Count/	
	(dd/mm/yy)		Temp (°C)	R.H.(%)	(mg/m3)		Minute(3)	
					Y-axis		X-axis	
1	15/08/23	9:00-10:00	32.0	80	0.038	1580	26.33	
2	15/08/23	11:30-12:30	32.0	80	0.035	1360	22.67	
3	15/08/23	13:50-14:50	32.0	80	0.041	1752	29.20	
Note:	2 Total Count	data was measu was logged by L ite was calculate	aser Dust	Monitor				
By Linear F	Regression of Y o	on X						
	Slope (K-factor)	:	0.0015					
	Correlation coe	fficient:	0.9985					
Validity of Calibration Record: 15-Aug-24								
Remarks:								
QCI	Reviewer:	Y.W. Fung		Signature:	7	Date:	15-Aug-23	



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APPENDIX F – MONITORING DATA (AIR QUALITY MONITORING)



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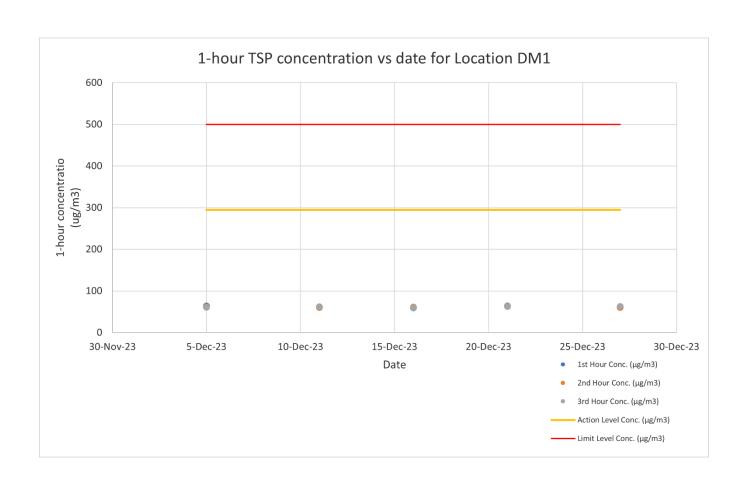
The Summary of 1-hour TSP Concentration ($\mu g/m^3$) at Location DM1

	Start	1st Hour	2nd Hour	3rd Hour	Action Level	Limit Level	Exceedance
	Time	Conc.	Conc.	Conc.	Conc.	Conc.	(Y/N)
Date	(hh:mm)	(µg/m³)	(µg/m³)	(µg/m³)	(µg/m³)	(µg/m³)	(1/14)
5-Dec-23	13:00	64.1	62.3	60.7	294.7	500	Ν
11-Dec-23	13:05	61.1	60.2	61.8	294.7	500	N
16-Dec-23	13:10	59.6	61.1	60.2	294.7	500	N
21-Dec-23	13:00	63.8	63.1	62.7	294.7	500	N
27-Dec-23	13:00	61.6	60	62.9	294.7	500	N

 Average
 61.7

 Min
 59.6

 Max
 64.1





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APPENDIX G - WASTE FLOW TABLE



Note:

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-: 000/2021	Old I IO Hall Olatic	ii aiia oia iio mai	i Dopot itopiaiiiiig	Tronko Gonthagt 1700

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Monthly Summary Waste Flow Table for 2023 Year

	Actual 0	Actual Quantities of Inert C&D Materials Generated Monthly						Actual Quantities of Non-inert C&D Materials Generated Monthly				
Month	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposal as Public Fill	Imported Fill	Metals	Paper / Cardboard Packaging	Plastics	Chemical Waste	Other, e.g. general refuse	
	[in Tonne]	[in Tonne]	[in Tonne]	[in Tonne]	[in Tonne]	[in Tonne]	[in Tonne]	[in kg]	[in kg]	[in kg]	[in Tonne]	
Jan	387.77	0.00	0.00	0.00	387.77	0.00	10.40	0.00	0.00	0.00	6.92	
Feb	2012.65	0.00	0.00	0.00	2012.65	0.00	18.70	0.00	0.00	0.00	11.31	
Mar	526.54	0.00	0.00	0.00	526.54	0.00	0.00	0.00	0.00	0.00	20.98	
Apr	222.70	0.00	0.00	0.00	222.70	0.00	0.00	0.00	0.00	0.00	6.29	
May	307.51	0.00	0.00	0.00	307.51	0.00	0.00	0.00	0.00	0.00	30.13	
June	126.09	0.00	0.00	0.00	126.09	0.00	0.00	0.00	0.00	0.00	18.86	
SUB- TOTAL	3583.26	0.00	0.00	0.00	3583.26	0.00	29.10	0.00	0.00	0.00	94.49	
Jul	135.82	0.00	0.00	0.00	135.82	0.00	0.00	0.00	0.00	0.00	10.67	
Aug	34.96	0.00	0.00	0.00	34.96	0.00	0.00	0.00	0.00	0.00	7.00	
Sep	90.12	0.00	0.00	0.00	90.12	0.00	0.00	0.00	0.00	0.00	6.33	
Oct	18.40	0.00	0.00	0.00	18.40	0.00	0.00	0.00	0.00	0.00	28.18	
Nov	98.81	0.00	0.00	0.00	98.81	0.00	0.00	0.00	0.00	0.00	24.16	
Dec	99.30	0.00	0.00	0.00	99.30	0.00	0.00	0.00	0.00	0.00	14.09	
TOTAL	4185.37	0.00	0.00	0.00	4185.37	0.00	29.10	0.00	0.00	0.00	184.92	

¹ full loaded dumping truck is assumed equivalent to 6.5 m3 by volume from Archsd D/OL03/09.002

Plastics refer to plastic bottles / containers, plastic sheets / foam from packaging material *Data extracted from construction waste transaction record from EPD website.

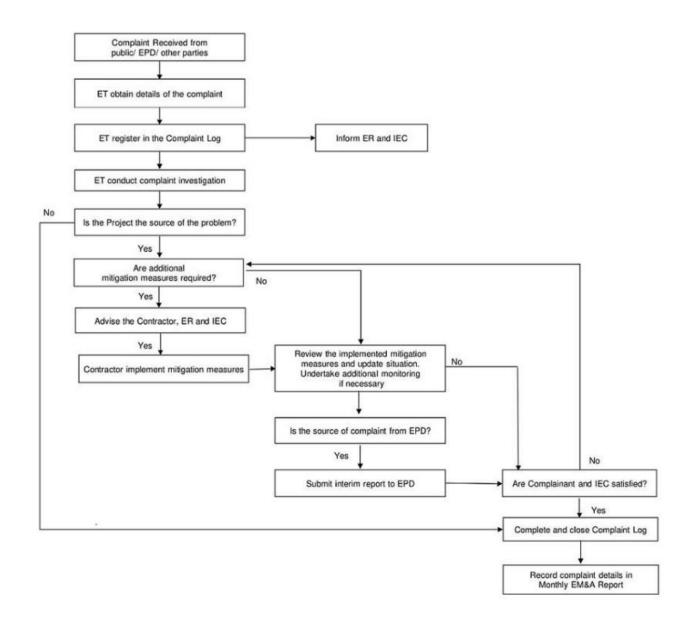


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APPENDIX H - COMPLAINT HANDLING PROCEDURE



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APPENDIX I - EVENT-ACTION PLAN (AIR QUALITY MONITORING)"



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EVENT	ACTION				
	ET	IEC	ER	CONTRACTOR	
ACTION LEVEL					
Exceedance for one sample	 Repeat measurement to confirm findings; If exceedance is confirmed, inform the Contractor, IEC and ER; Identify source(s), investigate the causes of exceedance and propose remedial measures; and Increase monitoring frequency. 	Check monitoring data submitted by the ET; Check Contractor's working method; and Discuss with ET, ER and Contractor on possible remedial measures Review and advise the ET and ER on the effectiveness of the proposed remedial measures.	Confirm receipt of notification of exceedance in writing.	Identify source(s), investigate the causes of exceedance and propose remedial measures; Implement remedial measures; and Amend working methods agreed with the ER as appropriate.	
Exceedance for two or more consecutive samples	 Repeat measurements to confirm findings; If exceedance is confirmed, inform Contractor, IEC and ER; Identify source(s), investigate the causes of exceedance and propose remedial measures; Increase monitoring frequency to daily; Advise the Contractor and ER on the effectiveness of the proposed remedial measures; Discuss with IEC and Contractor on remedial actions required; If exceedance continues, arrange meeting with Contractor, IEC and ER to 	 Check monitoring data submitted by the ET; Check Contractor's working method; and Discuss with ET, ER and Contractor on possible remedial measures; Review and advise the ET and ER on the effectiveness of the proposed remedial measures; and Supervise Implementation of remedial measures. 	Confirm receipt of notification of exceedance in writing; In consultation with the ET and IEC agree with the Contractor on the remedial measures to be implemented; and Supervise implementation of remedial measures	Identify source(s) and investigate the causes of exceedance; Submit proposals for remedial measures to the ER, ET and IEC within three working days of notification for agreement; Implement the agreed proposals; and Amend proposal as appropriate.	



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EVENT	ACTION						
EVENT	ET discuss the remedial measures to be taken; and 8. If exceedance stops, cease additional monitoring.	IEC	ER	CONTRACTOR			
LIMIT LEVEL							
Exceedance for one sample	 Repeat measurement to confirm findings; If exceedance is confirmed, inform the Contractor, IEC, EPD and ER; Identify source(s), investigate the causes of exceedance and propose remedial; Increase monitoring frequency to daily; and Discuss with the ER, IEC and Contractor on the remedial measures and assess effectiveness. 	 Check monitoring data submitted by the ET; Check Contractor's working method; Discuss with the ET, ER and Contractor on possible remedial measures; Review and advise the ET and ER on the effectiveness of the proposed remedial measures; and Supervise implementation of remedial measures. 	Confirm receipt of notification of exceedance in writing; Review and agree on the remedial measures proposed by the Contractor; and Ensure remedial measures properly implemented.	 Identify source(s) and investigate the causes of exceedance; Take immediate action to avoid further exceedance; Submit proposals for remedial measures to ER, ET and IEC within three working days of notification for agreement; Implement the agreed proposals; and Amend proposal if appropriate. 			
Exceedance for two or more consecutive samples	Repeat measurement to confirm findings; If exceedance is confirmed, inform IEC, ER, Contractor and EPD; Identify source(s), investigate the causes of exceedance and propose remedial measures;	Check monitoring data submitted by the ET; Discuss amongst ER, ET, and Contractor on the potential remedial actions; Review Contractor's remedial actions whenever necessary to assure their	Confirm receipt of notification of exceedance in writing; In consultation with the ET and IEC, agree with the Contractor on the remedial measures to be implemented; Supervise the implementation of remedial measures; and	Identify source(s) and investigate the causes of exceedance; Take immediate action to avoid further exceedance; Submit proposals for remedial measures to the ER, IEC and ET within three working days of notification for agreement;			



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EVENT	ACTION						
EVENT	ET	IEC	ER	CONTRACTOR			
	 Increase monitoring frequency to daily; Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; Arrange meeting with IEC and ER to discuss the remedial actions to be taken; Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; and If exceedance stops, cease additional monitoring. 	effectiveness and advise the ER accordingly; and 4. Supervise the implementation of remedial measures.	4. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to stop that portion of work until the exceedance is abated.	 4. Implement the agreed proposals; 5. Revise and resubmit proposals if problem still not under control; and 6. Stop the relevant portion of works as determined by the ER until the exceedance is abated. 			

Note: ET – Environmental Team; ER – Engineer's Representative; IEC – Independent Environmental Checker



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APPENDIX J - STATISTICS ON COMPLAINT, NOTIFICATION OF SUMMONS AND SUCCESSFUL PROSECUTION



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Statistic Summary of Exceedance

Air Quality					
Location Action Level Limit Level Total					
DM1	0	0	0		

Statistical Summary of Environmental Complaint

	Environmental Complaint Statistics				
Reporting Period	Frequency	Cumulative	Complaint Nature		
1 December 2023 – 31 December 2023	0	0	0		

Statistical Summary of Environmental Non-compliance

	Environmental Non-compliance Statistics				
Reporting Period	Frequency	Cumulative	Complaint Nature		
1 December 2023 – 31 December 2023	0	0	0		

Statistical Summary of Environmental Summons

	Environmental Summons Statistics				
Reporting Period	Frequency	Cumulative	Complaint Nature		
1 December 2023 – 31 December 2023	0	0	0		



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Statistical Summary of Environmental Prosecution

	Environmental Prosecution Statistics				
Reporting Period	Frequency	Cumulative	Complaint Nature		
1 December 2023 – 31 December 2023	0	0	0		



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APPENDIX K - ENVIRONMENTAL MITIGATION IMPLEMENTATION SCHEDULE (EMIS)



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EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
Air Quality	y (Construction Phase)						
S3.8.1	Watering once per hour on active works areas, exposed areas and unpaved haul roads during working hours.	To minimize dust impacts	Contractor	All works area	Construction phase	Air Pollution Control Ordinance (APCO)	Implemented
S3.8.9	 Implementation of dust suppression measures stipulated in the Air Pollution Control (Construction Dust) Regulation and good site practices should be carried out to further minimize construction dust impact. Use of regular watering, with complete coverage, to reduce dust emissions from exposed site surfaces and unpaved roads, particularly during dry weather. Use of frequent watering for particularly dusty construction areas and areas close to ASRs. Side enclosure and covering of any aggregate or dusty material storage piles to reduce emissions. Where this is not practicable owing to frequent usage, watering should be applied to aggregate fines. Open stockpiles should be avoided or covered. Where possible, prevent placing dusty material storage piles near ASRs. Tarpaulin covering of all dusty vehicle loads transported to, from and between site locations. Establishment and use of vehicle wheel and body washing facilities at the exit points of the site. Provision of wind shield and dust extraction units or similar dust mitigation measures at the loading points, 	dust impacts	Contractor	All works area	Construction phase	Air Pollution Control Ordinance (APCO)	Implemented



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EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	and use of water sprinklers at the loading area where dust generation is likely during the loading process of loose material, particularly in dry seasons/ periods.						
	Imposition of speed controls for vehicles on unpaved site roads. 8 kilometres per hour is the recommended limit.						
	Where possible, routing of vehicles and positioning of construction plant should be at the maximum possible distance from ASRs.						
	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.						
Noise Impa	nct (Construction Phase)			1			
\$4.5.16	Implement the following good site practices as far as practicable: Only well-maintained plant should be operated on-site, and plant should be serviced regularly during the	To minimise impacts to surrounding habitats	Contractor	All works area	Construction phase	TM-EIAO	Implemented



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EIA Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measures & Main Concern to Address	Implementation Agent	Location of the Measures	Implementation Stage	Requirements	Implementation Status
	construction program;						
	Silencers or mufflers on construction equipment should be utilised and should be properly maintained during the construction program;						
	Mobile plant, is any, should be sited as far from NSRs as possible;						
	Machine and plant (such as trucks) 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 should, wherever possible, be orientated so that the noise is directed away from the nearby NSRs; and						
	Material stockpiles and other structures should be effectively utilised, wherever practicable, in screening noise from on-site construction activities						
S4.5.17	Adopting quiet PME is recommended. The type of quiet PME adopted in this assessment is for reference only. The contractors may adopt alternative quiet PME as long as it can be demonstrated that they would not result in construction noise impacts worse than those predicted in this assessment.	To reduce impact to affected NSRs	Contractor	All works area	Construction phase	TM-EIAO	Implemented
S4.5.19	Use of noise barriers and noise enclosures to provide screening for construction plant where recommended.	To reduce impact to affected NSRs	Contractor	All works area	Construction phase	TM-EIAO	N/A
Water Qual	lity Impact (Construction Phase)						1
S5.8.4	Surface and road run-off from construction sites should be discharged into storm drains via adequately designed	To minimise impact from	Contractor	All works area	Construction phase	Water Pollution Control	



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	sand/silt removal facilities such as sand traps, silt traps and sedimentation basins. Channels or earth bunds or sand bag barriers should be provided on site to properly direct stormwater to such silt removal facilities. Perimeter channels should be provided on site boundaries where necessary to intercept storm run-off from outside the site so that it will not wash across the site. Catchpits and perimeter channels should be constructed in advance of site formation works and earthworks.					Ordinance (WPCO), Technical Memorandum on EIA Ordinance (EIAO-TM), ProPECC PN 1/94, Technical Memorandum on Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Waters (TM-DSS)	implemented
S5.8.5	Silt removal facilities, channels and manholes should be maintained, and the deposited silt and grit should be removed regularly, at the onset of and after each rainstorm to prevent local flooding. Any practical options for the diversion and re- alignment of drainage should comply with both engineering and environmental requirements in order to provide adequate hydraulic capacity of all drains.	impact from construction site	Contractor	All works area	Construction phase	WPCO, EIAO- TM, ProPECC PN 1/94, TM- DSS	implemented
\$5.8.6	Construction works should be programmed to minimize soil excavation works in rainy seasons (April to September). If soil excavation cannot be avoided in these months or at any time of year when rainstorms are likely, for the purpose of preventing soil erosion, temporary exposed slope surfaces should be covered e.g. by tarpaulin, and temporary access	impact from construction site	Contractor	All works area	Construction phase	WPCO, EIAO- TM, ProPECC PN 1/94, TM- DSS	implemented



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	roads should be protected by crushed stone or gravel, as excavation proceeds. Intercepting channels should be provided (e.g. along the crest / edge of excavation) to prevent storm runoff from washing across exposed soil surfaces. Arrangements should always be in place in such a way that adequate surface protection measures can be safely carried out well before the arrival of a rainstorm.						
S5.8.7	Earthworks final surfaces should be well compacted, and the subsequent permanent work or surface protection should be carried out immediately after the final surfaces are formed to prevent erosion caused by rainstorms. Appropriate drainage like intercepting channels should be provided where necessary.	impact from construction site	Contractor	All works area	Construction phase	WPCO, EIAO- TM, ProPECC PN 1/94, TM- DSS	implemented
S5.8.8	Measures should be taken to minimize the ingress of rainwater into trenches. If excavation of trenches in wet seasons is necessary, they should be dug and backfilled in short sections. Rainwater pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities.	impact from construction site	Contractor	All works area	Construction phase	WPCO, EIAO- TM, ProPECC PN 1/94, TM- DSS	implemented
\$5.8.9	If bentonite slurries are required for any construction works, they should be reconditioned and reused wherever practicable to minimise the disposal volume of used bentonite slurries. Temporary enclosed storage locations should be provided on-site for any unused bentonite that needs to be transported away after the related construction activities are completed. Requirements as stipulated in ProPECC Note PN 1/94 should be closely followed when handling and disposing bentonite slurries.	impact from construction site	Contractor	All works area	Construction phase	WPCO, EIAO- TM, ProPECC PN 1/94	implemented
S5.8.10	Open stockpiles of construction materials (e.g. aggregates,	To minimise	Contractor	All works area	Construction	WPCO,	



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	sand and fill material) on sites should be covered with tarpaulin or similar fabric during rainstorms.	impact from construction site run-off			phase	EIAO- TM, ProPECC PN 1/94, TM- DSS	implemented
S5.8.11	Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage system, and to prevent storm run-off from getting into foul sewers. Discharge of surface run-off into foul sewers must always be prevented in order not to unduly overload the foul sewerage system.	impact from construction site	Contractor	All works area	Construction phase	WPCO, EIAO- TM, ProPECC PN 1/94, TM- DSS	Implemented
S5.8.12	Good site practices should be adopted to remove rubbish and litter from construction sites so as to prevent the rubbish and litter from spreading from the site area. It is recommended to clean the construction sites on a regular basis.	impact from construction site	Contractor	All works area	Construction phase	WPCO, EIAO- TM, ProPECC PN 1/94, TM- DSS	Implemented
\$5.8.12	The following mitigation measures related to the transportation of the sediment should be implemented to minimize the potential water quality impact: Loading of the excavated sediment to the barge shall be controlled to avoid splashing and overflowing of the sediment slurry to the surrounding water. • The barge transporting the sediments to the designated disposal sites shall be equipped with tight fitting seals to prevent leakage and shall not be filled to a level that would cause overflow of materials or laden water during loading or transportation. • Monitoring of the barge loading shall be conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels shall be equipped with automatic self-monitoring devices as	impact from transportation of sediment	Contractor	Barging point and barges	Construction phase	WPCO, EIAO- TM, ProPECC PN 1/94	N/A



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	specified by the Director of Environmental Protection (DEP).						
S5.8.13	There is a need to apply to EPD for a discharge licence for discharge of effluent from the construction site under the WPCO. The discharge quality must meet the requirements specified in the discharge licence. All the runoff and wastewater generated from the works areas should be treated so that it satisfies all the standards listed in the TM-DSS. The beneficial uses of the treated effluent for other on- site activities such as dust suppression, wheel washing and general cleaning etc., can minimise water consumption and reduce the effluent discharge volume. If monitoring of the treated effluent quality from the works areas is required during the construction phase of the Project, the monitoring should be carried out in accordance with the relevant WPCO licence.	impact from	Contractor		Construction phase	WPCO, EIAO- TM, ProPECC PN 1/94, TM- DSS	implemented
S5.8.14	Water for Bored Piling Works Water used in ground boring and drilling for site investigation or rock / soil anchoring should be re-circulated as far as practicable after sedimentation. When there is a need for final disposal, the wastewater should be discharged into storm drains via silt removal facilities.	construction site	Contractor		Construction phase	WPCO, EIAO- TM, ProPECC PN 1/94, TM- DSS	N/A
S5.8.15	Wheel Washing Water Wash-water from wheel washing facility should have been treated by silt removal facilities before discharging into storm drains. Treated wash-water could be used as dust suppression measures as far as practicable. The section of access road between the wheel washing bay and the public road should be paved to reduce vehicle tracking of soil and to prevent silty water from entering public road and drains.	construction site run-off	Contractor	All works area	Construction phase	WPCO, EIAO- TM, ProPECC PN 1/94, TM- DSS	implemented



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S5.8.16	Construction Works near Channelized Watercourse / Ditch For minimization of potential water quality impacts from the works to nearby inland channelized watercourse/ditch near SHWSTW, the practices outlined in ProPECC Note PN 1/94 "Construction Site Drainage" and ETWB TC (Works) No.5/2005 "Protection of natural streams / rivers from adverse impacts arising from construction works" should be adopted where applicable. Relevant mitigation measures are listed below: • The use of less or smaller construction plants may be specified in works area close to the inland water bodies. • Temporary storage of material (e.g. equipment, filling materials, chemicals and fuel) and temporary stockpile of construction materials should be located well away from watercourse/ditch when carrying out of the construction works. Stockpiling of construction materials and dusty materials should be covered and located away from any watercourse/ditch. • Construction debris and spoil should be covered up and / or disposed of as soon as possible to avoid being washed into the nearby water receivers. • Construction activities, which generate large amount of wastewater, should be carried out in a distance away from the watercourse/ditch, where practicable. Construction effluent, site run-off and sewage should be properly collected and / or treated.	run-off	Contractor	All works area	Construction phase	WPCO, EIAO- TM, ProPECC PN 1/94, TM- DSS, ETWB TC(Works) No. 5/2005	Implemented
S5.8.17 – S5.8.19	Accidental Spillage of Chemicals The Contractor should register as a chemical waste producer if chemical wastes would be produced from		Contractor	All works area	Construction phase	WPCO, EIAO- TM, Waste Disposal	



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	the construction activities. The Waste Disposal Ordinance (Cap 354) and its subsidiary regulations in particular the Waste Disposal (Chemical Waste) (General) Regulation, should be observed and complied. • Any service shop and maintenance facilities should be located on hard standings within a bunded area, and sumps and oil interceptors should be provided. Maintenance of vehicles and equipment involving activities with potential for leakage and spillage should only be undertaken within the areas appropriately equipped to control these discharges. • Disposal of chemical wastes should be carried out in compliance with the Waste Disposal Ordinance. The Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes published under the Waste Disposal Ordinance details the requirements to deal with chemical wastes. General requirements are given as follows: • Suitable containers should be used to hold the chemical wastes to avoid leakage or spillage during storage, handling and transport. • Chemical waste containers should be suitably labelled, to notify and warn the personnel who are handling the wastes, to avoid accidents. • Storage area should be selected at a safe location on site and adequate space should be allocated to the storage area.					Ordinance (WDO), Waste Disposal (Chemical Waste) (General) Regulation	Implemented
S5.8.22 – S5.8.24	Groundwater from Contaminated Areas, Contaminated Site Runoff and Wastewater from Land Decontamination Remediation of contaminated land should be properly	To minimise impact from groundwater from	Contractor	All works area confirmed with land	Construction phase	WPCO, EIAO- TM, TM-DSS, Guidance	N/A



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	conducted following the recommendations of Land Contamination Assessment to be conducted in future. Any excavated contaminated material and exposed contaminated surface should be properly housed and covered to avoid generation of contaminated runoff. Open stockpiling of contaminated materials should not be allowed. Any contaminated runoff or wastewater generated from the land decontamination processes should be properly collected and diverted to wastewater treatment facilities (WTF) as necessary. The WTF shall deploy suitable treatment processes (e.g. oil interceptor/ activated carbon) to reduce the pollution level to an acceptable standard and remove any prohibited substances (such as total petroleum hydrocarbon) to an undetectable range. All treated effluent from the wastewater treatment system shall meet the requirements as stated in TM-DSS and should be either discharged into the foul sewers or tankered away for proper disposal. No direct discharge of groundwater from contaminated areas should be adopted. Prior to any excavation works within the potentially contaminated areas, the baseline groundwater quality in these areas should be reviewed based on the past relevant site investigation data and any additional groundwater quality measurements to be performed with reference to Guidance Note for Contaminated Land Assessment and Remediation and the review results should be submitted to EPD for examination. If the review results indicated that the groundwater to be generated from the excavation works would be contaminated, this contaminated groundwater should be either properly treated or properly recharged into the ground in compliance with	areas, contaminated site run-off/ wastewater from land decontamination		contamination		Note for Contaminate d Land Assessment	



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	the requirements of the TM-DSS. If wastewater treatment is to be deployed for treating the contaminated groundwater, the wastewater treatment unit shall deploy suitable treatment processes (e.g. oil interceptor / activated carbon) to reduce the pollution level to an acceptable standard and remove any prohibited substances (such as total petroleum hydrocarbon) to an undetectable range. All treated effluent from the wastewater treatment plant shall meet the requirements as stated in the TM-DSS and should be either discharged into the foul sewers or tankered away for proper disposal. If deployment of wastewater treatment is not feasible for handling the contaminated groundwater, groundwater recharging wells should be installed as appropriate for recharging the contaminated groundwater back into the ground. The recharging wells should be selected at places where the groundwater quality will not be affected by the recharge operation as indicated in section 2.3 of TM-DSS. The baseline groundwater quality should be determined prior to the selection of the recharge wells, and submit a working plan to EPD for agreement. Pollution levels of groundwater to be recharged shall not be higher than pollutant levels of ambient groundwater at the recharge well. Groundwater monitoring wells should be installed near the recharge wells and to ensure that no likelihood of increase of groundwater level and transfer of pollutants beyond the site boundary. Prior to recharge, free products should be removed as necessary by installing the petrol interceptor.						



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	 The Contractor should apply for a discharge licence under the WPCO through the Regional Office of EPD for groundwater recharge operation or discharge of treated groundwater. 						
Waste Mai	nagement Implication (Construction Phase)			1		l	
S7.5.3	Recommendations for good site practices during the construction phase include: Nomination of approved personnel, such as a site manager, to be responsible for implementation of good site practices, arrangements for waste collection and effective disposal to an appropriate facility;		Contractor	All works areas	Construction phase	Waste Disposal Ordinance (WDO) and Public	Implemented
	 Training of site personnel in site cleanliness, concepts of waste reduction, reuse and recycling, proper waste management and chemical waste handling procedures; 					Cleansing and Prevention of Nuisances	
	 Provision of sufficient waste reception/ disposal points, and regular collection of waste; Adoption of appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers; Provision of regular cleaning and maintenance programme for drainage systems, sumps and oil interceptors; 					Regulation (Cap. 132BK)	
	 Adoption of a recording system for the amount of wastes generated, recycled and disposed (including the disposal sites); and 						
	Preparation of Waste Management Plan (WMP), as part of the Environmental Management Plan (EMP)						
S7.5.4	Recommendations to achieve waste reduction are as follow: Segregate and store different types of construction		Contractor	All works areas	Construction phase	WDO	Implemented



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	related waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal;						
	 Provide separate labelled bins to segregate recyclable waste such as aluminium cans from other general refuse generated by the work force, and to encourage collection by individual collectors; 						
	Recycle any unused chemicals or those with remaining functional capacity;						
	Maximise the use of reusable steel formwork to reduce the amount of C&D materials;						
	 Adopt proper storage and site practices to minimise the potential for damage to, or contamination of construction materials; 						
	 Plan the delivery and stock of construction materials carefully to minimise the amount of waste generated; and 						
	Minimize over ordering and wastage through careful planning during purchasing of construction materials.						
S7.5.6	To minimise the impact resulting from collection and transportation of C&D materials as far as practicable, C&D material, such as wood, plastic, steel and other metals should be reused or recycled and, as a last resort, disposed to landfill. A suitable area should be designated within the site for temporary stockpiling of C&D materials and to facilitate the sorting process.	To minimise the disposal of C&D waste	Contractor	All works areas	Construction phase	WDO	Implemented
S7.5.6	Within the stockpile areas, the following measures should be taken to control potential environmental impacts or nuisance:		Contractor		Construction phase	WDO	Implemented



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	 Proper handling and storage of waste such as soil by means of covers and/or water spraying system to minimise the potential environmental impact and to prevent materials from wind-blown or being washed away; 						
	 Covering materials during heavy rainfall; 						
	 Locating stockpiles to minimise potential visual impacts; 						
	 Minimising land intake of stockpile areas as far as possible; 						
	 Adopting GPS or equivalent system for tracking and monitoring of all dump trucks engaged for the Project in recording their travel routings and parking locations to prohibit illegal dumping and landfilling of C&D materials; and 						
	 Keeping record and analysis of data collected by GPS or equivalent system related to travel routings and parking locations of dump trucks engaged on site. 						
\$7.5.7 to \$7.5.9	General refuse should be stored in enclosed bins or compaction units separate from C&D materials and chemical waste. A reputable waste collector should be employed by the contractor to remove general refuse from the site, separately from C&D materials and chemical wastes. An enclosed and covered area is preferred to reduce the occurrence of 'wind blown' light materials. The recyclable component of general refuse, such as	To avoid and minimize impacts arising from waste management	Contractor		Construction phase	WDO	Implemented
	aluminium cans, paper and cleansed plastic containers shall be separated from other waste. Provision and collection of recycling bins for different types of recyclable waste shall be						



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	set up by the Contractor. The Contractor shall also be responsible for arranging recycling companies to collect these materials.						
	The Contractor shall carry out an education programme for workers in avoiding, reducing, reusing and recycling of materials generation. Posters and leaflets advising on the use of the bins shall also be provided in the sites as reminders.						
\$7.5.10 to \$7.5.12	If chemical wastes were to be produced at the construction site, the Contractor would be required to register with the EPD as a Chemical Waste Producer, and to follow the guidelines stated in the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.	To avoid and minimize impacts arising from waste management	Contractor	All works areas	Construction phase	WDO	Implemented
	Appropriate containers with proper labels should be used for storage of chemical wastes. Chemical wastes should be collected and delivered to designated outlet by a licensed 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 CWTC, or another licensed facility, in accordance with the Waste Disposal (Chemical Waste) (General) Regulation.						
	Any unused chemicals or those with remaining functional capacity should be collected for reuse as far as practicable.						
\$7.5.13 to \$7.5.14	The sediment should be excavated, handled, transported and disposed of in a manner that would minimise adverse environmental impacts. For minimization of sediment disposal, beneficial reuse will be considered on site as far as practicable during the construction stage before the disposal	To avoid and minimize impacts arising from waste management	Contractor	All works areas	Construction phase	APCO WDO	N/A



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	of excavated sediment.						
	Requirements of the Air Pollution Ordinance (Construction Dust) Regulation, where relevant, shall be adhered to during excavation, transportation and disposal of sediments.						
\$7.5.15	In order to minimise the exposure to contaminated materials, workers shall, when necessary, wear appropriate personal protective equipment (PPE) when handling contaminated sediments. Adequate washing and cleaning facilities shall also be provided on site.	minimize impacts arising from waste	Contractor	All works areas	Construction phase	WDO	N/A
S7.5.20	Stockpiling of contaminated sediments shall be avoided as far as possible. If temporary stockpiling of contaminated sediments is unavoidable, the excavated sediment shall be covered by tarpaulin and the area shall be placed within earth bunds or sand bags to prevent leachate from entering the ground, nearby drains and/or surrounding water bodies. The stockpiles shall be completely paved or covered by linings in order to avoid contamination to underlying soil or groundwater. Separate and clearly defined areas shall be provided for stockpiling of contaminated and uncontaminated materials. Leachate, if any, shall be collected and discharged according to the Water Pollution Control Ordinance (WPCO).	minimize impacts arising from waste	Contractor	All works areas	Construction phase	WPCO	N/A
\$7.5.21	In order to minimise the potential odour / dust emissions during excavation and transportation of the sediment, the excavated sediments shall be wetted during excavation / material handling and shall be properly covered when placed on trucks or barges. Loading of the excavated sediment to the barge shall be controlled to avoid splashing and overflowing of the sediment slurry to the surrounding	minimize impacts arising from waste	Contractor	All works areas	Construction phase	WDO APCO	N/A



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	water.						
Land Cont	amination	Į.	Į.	1	-	-	
	To minimise environmental impacts arising from the handling of potentially contaminated materials, the following environmental precautionary measures are recommended to be utilised during the course of any required site remediation: • Excavation profiles must be properly designed and executed with attention to the relevant requirements for environment, health and safety; • Establish and maintain a Health and Safety Plan with the information below before commencement of the SI: (a) Instruction of works on work procedures, safe practices, emergency duties, and applicable regulations; (b) Regularly scheduled meetings of the workers in which the possible hazards, problems of the job, and related safe practices are emphasized and discussed; (c) Good housekeeping practices; and (d) Availability of and instruction in the location, use and maintenance of personal protective equipment. • Excavation shall be carried out during dry season as far as possible to minimise contaminated runoff from contaminated soils; • Supply of suitable clean backfill material (or treated soil) after excavation; • Stockpiling site(s) shall be lined with impermeable sheeting and bunded. Stockpiles shall be fully covered by impermeable sheeting to reduce dust emission. If this is not practicable due to frequent usage, regular		Contractor	Area identified with land contamination	Prior to the commencement of construction works at the contaminated areas	"Guidance Note for Contaminated Land Assessment and Remediation" "Guidance Manual for Use of Risk-based Remediation Goals for Contaminated Land Management "Public Cleansing and Prevention of Nuisances Regulation (Cap. 132BK)" APCO, WDO and WPCO	N/A



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	watering shall be applied. However, watering shall be avoided on stockpiles of contaminated soil to minimise contaminated runoff; • Vehicles containing any excavated materials shall be suitably covered to limit potential dust emissions or contaminated wastewater run-off, and truck bodies and tailgates shall be sealed to prevent any discharge during transport or during wet conditions; • Speed control for the trucks carrying contaminated materials shall be enforced; • Vehicle wheel and body washing facilities at the site's exist points shall be established and used; and • Pollution control measures for air emissions (e.g. from biopile blower and handling of cement), noise emissions (e.g. from blower or earthmoving equipment), and water discharges (e.g. runoff control from treatment facility) shall be implemented and complied with relevant regulations and guidelines.						
Landscape	and Visual Impact (Construction Phase)						
S9.8.1	Trees unavoidably affected by the works should be transplanted as far as possible in accordance with DEVB TC(W) 7/2015 – Tree Preservation or LAO PN 7/2007 - Tree Preservation and Tree Removal Application for Building Development in Private Projects where applicable.	To transplant affected trees	Contractor	All works areas	Construction phase	DEVB TC(W) No. 7/2015 or LAO PN 7/2007 where applicable	Implemented
S9.8.1	Control of night-time lighting glare.	To minimize the Landscape and visual impact on surrounding setting	Contractor	All works areas	Construction phase	TM-EIAO	Implemented
S9.8.1	Erection of decorative screen hoarding which should be compatible with the surrounding setting.	To minimize the Landscape and visual impact on	Contractor	All works areas	Construction phase	TM-EIAO	Implemented



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S9.8.1		surrounding setting To minimize visual impact to	Contractor	All works areas	Construction phase	-	Implemented
		adjacent VSRs. To minimize the landscape impact	Contractor	All works areas	Construction phase	-	To be implemented
		setting					



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APPENDIX L - MONITORING SCHEDULE OF THE REPORTING MONTH



Consultancy Agreement No.NEX/1062 Siu Ho Wan Station and Siu Ho Wan Depot Replanning Works - Advance Constuction Works Dust and Noise Monitoring Schedule in December 2023

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1-Dec	2-Dec
3-Dec	4-Dec	5-Dec	6-Dec	7-Dec	8-Dec	9-Dec
		4 ha Durat Manitanina				
		1-hr Dust Monitoring				
10-Dec	11-Dec	12-Dec	13-Dec	14-Dec	15-Dec	16-Dec
	1-hr Dust Monitoring					1-hr Dust Monitoring
	1-nr Dust Monitoring					1-nr Dust Monitoring
17-Dec	18-Dec	19-Dec	20-Dec	21-Dec	22-Dec	23-Dec
				1-hr Dust Monitoring		
				1-III Dust Worldoning		
24-Dec	25-Dec	26-Dec	27-Dec	28-Dec	29-Dec	30-Dec
			1-hr Dust Monitoring			
			· 2			
04.5						
31-Dec						



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APPENDIX M - MONITORING SCHEDULE OF THE COMING MONTH



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Consultancy Agreement No.NEX/1062 Siu Ho Wan Station and Siu Ho Wan Depot Replanning Works - Advance Constuction Works Tentative Dust and Noise Monitoring Schedule in January 2024

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

The schedule is subject to change due to unforeseeable circumstances (e.g. adverse weather, etc)