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 January 2024)

	Name	Signature
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EXECUTIVE SUMMARY

A.1 This is the 26th monthly Environmental Monitoring and Audit (EM&A) report presenting the EM&A works carried out during the reporting period from 1 January to 31 January 2024.

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
• Instrumentation monitoring • Draw pits, cable ducts and cable trough works at depot • EVA construction and watermain installation • Additional footings and civil works at test track and east level crossing • Cable containments at the footing for cable diversion • Cable bridge E&M works

A.3 A summary of regular construction dust monitoring activities in this reporting period is listed below:

Construction dust (1-hour TSP) monitoring

DM1	18 times

A.4 Weekly environmental site inspections were conducted during the reporting period. A joint site inspection with the IEC was carried out on 8 January 2024. 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 at depot • EVA construction and watermain installation • OHL footing, portal and masts works • Additional civil works and trackworks • Cable bridge E&M works

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 January to 31 January 2024) 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
• Instrumentation monitoring
• Draw pits, cable ducts and cable trough works at depot
• EVA construction and watermain installation
• Additional footings and civil works at test track and east level crossing
• Cable containments at the footing for cable diversion
• Cable bridge E&M works

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/ Notification/ Reference No.	Valid Period		Status	Remark
	From	To		
Environmental Permit				
EP-588/2021	22 Mar 2021	N/A	Valid	-
Wastewater Discharge License				
WT00040639-2022	23 Mar 2022	31 Mar 2027	Valid	-
Notification of Construction Works under the Air Pollution Control (Construction Dust) Regulation				
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 Disposal of Construction Waste				
7042328	25 Nov 2021	N/A	Valid	-
Construction Noise Permit				
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. Excluded updated works areas for SHD 1252, 1741, and 1733.

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
1.12	Commencement Date of Construction	11 June 2021 (1st submission) 12 July 2021 (2nd submission) 12 August 2021 (3rd submission)
2.7	Construction Works Phasing Schedule	1 November 2021 (1st submission) 20 December 2021 (2nd submission) 29 December 2021 (Deposited) 9 October 2023 (1st submission with updated Phase 1 work) 30 November 2023 (Deposited)
2.8	Environmental Permit Submission Schedule	12 August 2021 10 September 2021 (Deposited)
2.9	Management Organization	1 November 2021 (1st submission) 20 December 2021 (2nd submission) 21 April 2022 (3rd submission) 9 August 2022 (4th submission) 16 November 2022 (5th submission) 18 September 2023 (6th submission) 22 January 2024 (7th submission)
2.10	Construction Noise Mitigation Plan	1 November 2021 (1st submission) 20 December 2021 (2nd submission) 28 December 2021 (Deposited) 30 December 2022 (1st submission for Phase 1 work) 29 March 2023 (2nd submission for Phase 1 work) 18 May 2023 (3rd submission for Phase 1 work) 28 July 2023 (4th submission for Phase 1 work) 30 October 2023 (5th submission for Phase 1 work) 6 December 2023 (6th submission for Phase 1 work) 8 December 2023 (Deposited)

EP Condition (EP-588/2021)	Submission	Submission date
2.11	Noise Mitigation Plan	31 March 2023 (1st submission) 31 July 2023 (2nd submission) 20 October 2023 (3rd submission)
2.13	Waste Management Plan	1 November 2021 (1st submission) 20 December 2021 (2nd submission) 28 December 2021 (Deposited) 30 June 2023 (1st submission for Phase 1 work) 1 August 2023 (2nd submission for Phase 1 work)
2.15	Landscape and Visual Plan(s)	27 April 2023 (1st submission) 27 July 2023 (2nd submission) 20 October 2023 (3rd submission) 8 December 2023 (Approved)
3.3	Baseline Monitoring Report	1 November 2021 16 November 2021 (Deposited)
3.4	Monthly EM&A Report (Dec 2021 – Dec 2023)	Submitted within 10 working days after the end of the reporting month
3.4	Monthly EM&A Report (January 2024)	This report submission
4.2	Dedicated Internet Website	12 January 2022 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

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 2, 6, 12, 18, 24 and 30 January 2024 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 ($\mu g/m^3$)	Action Level ($\mu g/m^3$)	Limit Level ($\mu g/m^3$)	No. of Exceedances
DM1	58.8 – 69.1	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

Reporting period	Quantity						
	Inert C&D materials (in m^3)	Chemical Waste (in '000 kg)	Non-inert C&D materials				
			Others, e.g., General Refuse disposed at Landfill (in '000 kg)	Recycled wastes			
				Paper/ cardboard (in '000 kg)	Plastics (in '000 kg)	Metals (in '000 kg)	Yard Waste (in '000 kg)
Jan 2024	295.585	0.000	16.100	0.000	0.000	0.000	0.000

Remark: Updated as of 21 January 2024.

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, five (5) site inspections were carried out on 3, 8, 15, 22 and 29 January 2024. One joint site inspection with the IEC was also undertaken on 8 January 2024. 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
3 January 2024	None	None
8 January 2024	1. Chemical leakage/spillage was observed in the trench near area AB7. The contractor was reminded to clean the spillage area immediately and dispose of the cleanup waste as chemical waste properly. In addition, the contractor was reminded to provide toolbox training to frontline workers about the storage, handling, and transport of chemicals to avoid another accident.	1. The spillage area was cleaned. Cleanup waste was securely disposed of as chemical waste in the chemical waste container.
15 January 2024	None	None
22 January 2024	1. At F17, PME breaker should be placed on impervious surface to prevent chemical spillage. And suspected chemical spillage should be properly handled and disposed as chemical waste.	1. The PME breaker was placed on an impervious surface. Also, the suspected spillage was cleaned up and disposed of as chemical waste.
29 January 2024	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 at depot • EVA construction and watermain installation • OHL footing, portal and masts works • Additional civil works and trackworks • Cable bridge E&M works

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 26th monthly EM&A Report presents the EM&A works undertaken during the period from 1 January to 31 January 2024 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 8 January 2024. 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.

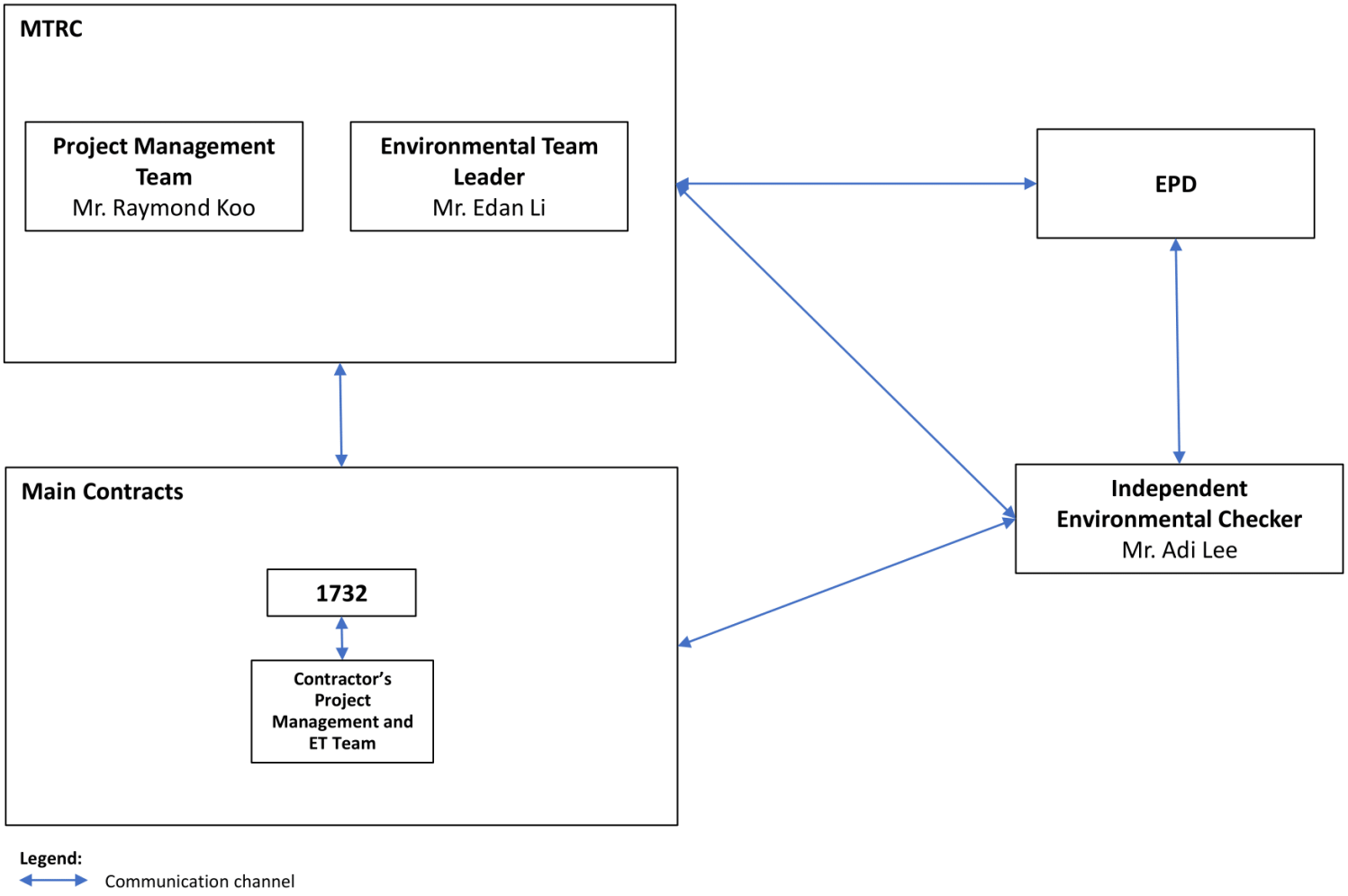
Appendix A
Construction Programme

Appendix A Construction Programme

Construction Activities	ID	2021												2022												2023												2024											
		J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
Contract 1732 - Cable Bridge and Associated Civil Works for Cable Diversion	**2**																																															
Site Clearance & Hoarding / UU / Cable Trenches	2.1																																														
H-piling	2.2																																														
Excavation (Soil)	2.3																																														
Substructure (footing, pile caps, columns)	2.4																																														
Backfilling	2.5																																														
Superstructure (Cable Bridges)	2.6																																														

Appendix B
Project Organization Chart

Project O-Chart



MTR's Contact:

MTRC - Project Management Team		
Position	**Name**	**Telephone**
Chief Construction Manager - OYB	Mr. Raymond Koo	2621 7051

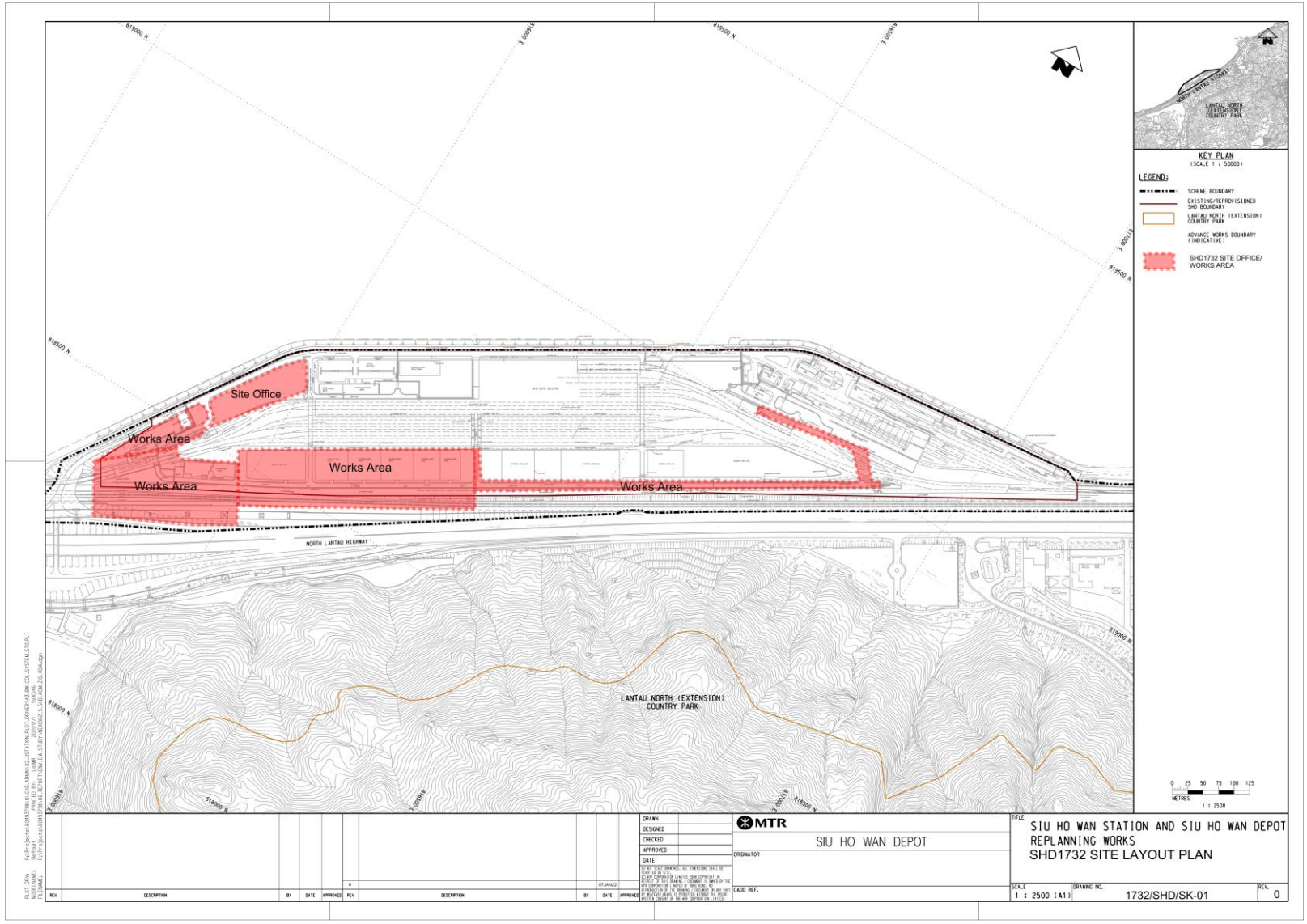
MTRC - Environmental Team		
Position	**Name**	**Telephone**
Environmental Team Leader	Mr. Edan Li	2621 7194
Environmental Team Member	Mr. Cyrus Lau	2621 7219

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

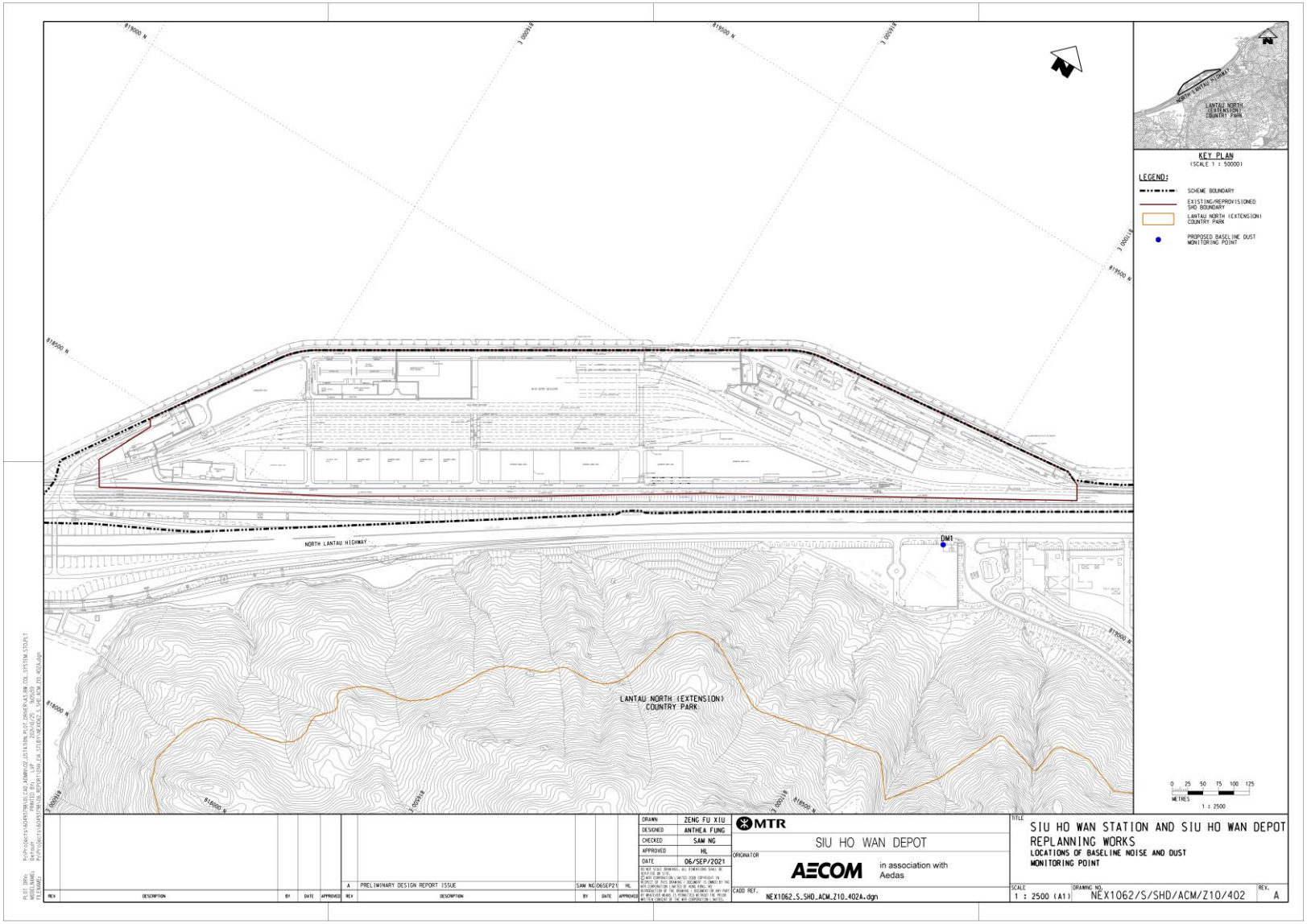
Contractor's Contact:

Main Works Contract	**Description**	**Contractor**	**Position**	**Name**	**Telephone**
1732	Cable bridges and associated civil works for cable diversion	Paul Y – CRCCI Joint Venture	Project Manager	David Wong	9712 9984
			Environmental Officer	Pan Fong	9436 9435
			Environmental Team Leader	Tsang, Fan Cheong	2698 8060

Appendix C
Alignment and Works Area for Contract No. 1732


Site Office
Works Area
Works Area
Works Area
Works Area
NORTH LANTAU HIGHWAY
LANTAU NORTH (EXTENSION) COUNTRY PARK
KEY PLAN
(SCALE 1 : 50000)
LEGEND:
SCHEME BOUNDARY
EXISTING/REPROVISIONED SHD BOUNDARY
LANTAU NORTH (EXTENSION) COUNTRY PARK
ADVANCE WORKS BOUNDARY (INDICATIVE)
SHD1732 SITE OFFICE/ WORKS AREA
METRES
1 : 2500
MTR
SIU HO WAN DEPOT
SIU HO WAN STATION AND SIU HO WAN DEPOT REPLANNING WORKS
SHD1732 SITE LAYOUT PLAN
1 : 2500 (A1)
1732/SHD/SK-01
0

Appendix D
Location Plan of Air Quality Monitoring Station


KEY PLAN
(SCALE 1 : 50000)
LEGEND:
SCHEME BOUNDARY
EXISTING/REPROVISIONED SHD BOUNDARY
LANTAU NORTH (EXTENSION) COUNTRY PARK
PROPOSED BASELINE DUST MONITORING POINT
NORTH LANTAU HIGHWAY
LANTAU NORTH (EXTENSION) COUNTRY PARK
DM1
METRES
1 : 2500
MTR
SIU HO WAN DEPOT
AECOM
in association with Aedas
SIU HO WAN STATION AND SIU HO WAN DEPOT REPLANNING WORKS
LOCATIONS OF BASELINE NOISE AND DUST MONITORING POINT
NEX1062/S/SHD/ACM/Z10/402
A
PRELIMINARY DESIGN REPORT ISSUE

Appendix E
Calibration Certificates
(Air Quality Monitoring Equipment)

EQUIPMENT CALIBRATION RECORD

Type:	Laser Dust Monitor
Manufacturer/Brand:	SIBATA
Model No.:	LD-3B
Equipment No.:	A.005.16a
Sensitivity Adjustment Scale Setting:	521 CPM
Operator:	WS CHAN

Standard Equimment

Equipment:	High Volume Sampler
Venue:	Pedestrian Plaza
Model No.:	TE-5170
Serial No.:	10273
Last Calibration Date:	4-Apr-23

Calibration Result

Sensitivity Adjustment Scale Setting (Before Calibration):	521	CPM
Sensitivity Adjustment Scale Setting (After Calibration):	521	CPM

Hour	Date (dd/mm/yy)	Time	Ambient Condition		Concentration① (mg/m3) Y-axis	Total Count②	Count/ Minute③ X-axis
			Temp (°C)	R.H.(%)			
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
Correlation coefficient:	0.9997

Validity of Calibration Record: 26-Apr-24

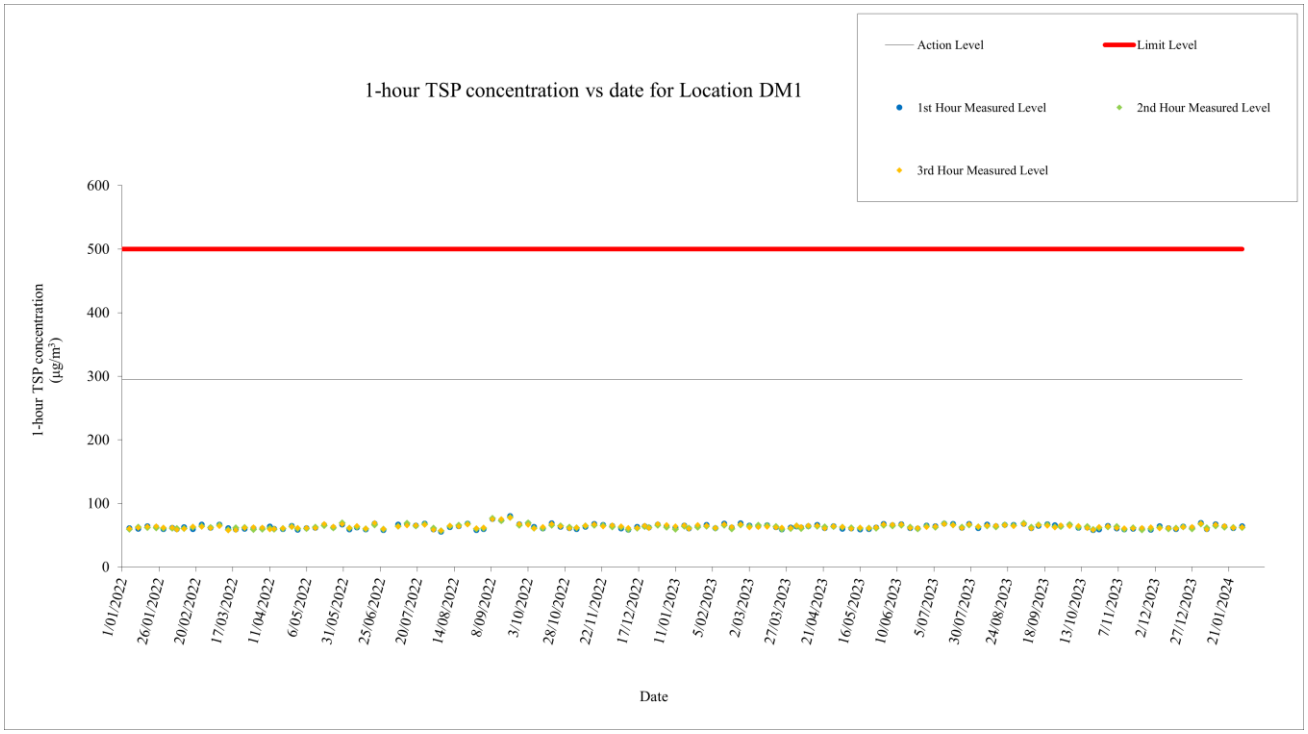
Remarks:

QC Reviewer: Y.W. Fung Signature: Date: 28-Apr-23

Appendix F
Monitoring Data (Air Quality Monitoring)

The Summary of 1-hour TSP Concentration (μg/m^3) at Location DM1

Date	Weather	Start Time (hh:mm)	1st Hour μg/m^3	2nd Hour μg/m^3	3rd Hour μg/m^3
02/01/2024	Sunny	13:10	69.1	67.7	68.4
06/01/2024	Fine	11:35	59.4	61.6	58.8
12/01/2024	Sunny	13:05	67.3	64.9	66.9
18/01/2024	Sunny	13:10	63.7	62.8	64.9
24/01/2024	Sunny	13:15	60.9	62.2	61.7
30/01/2024	Sunny	13:05	64.0	61.9	62.8
Minimum: 58.8 μg/m^3			Maximum: 69.1 μg/m^3		



Appendix G
Waste Flow Table

Monthly Summary Waste Flow Table

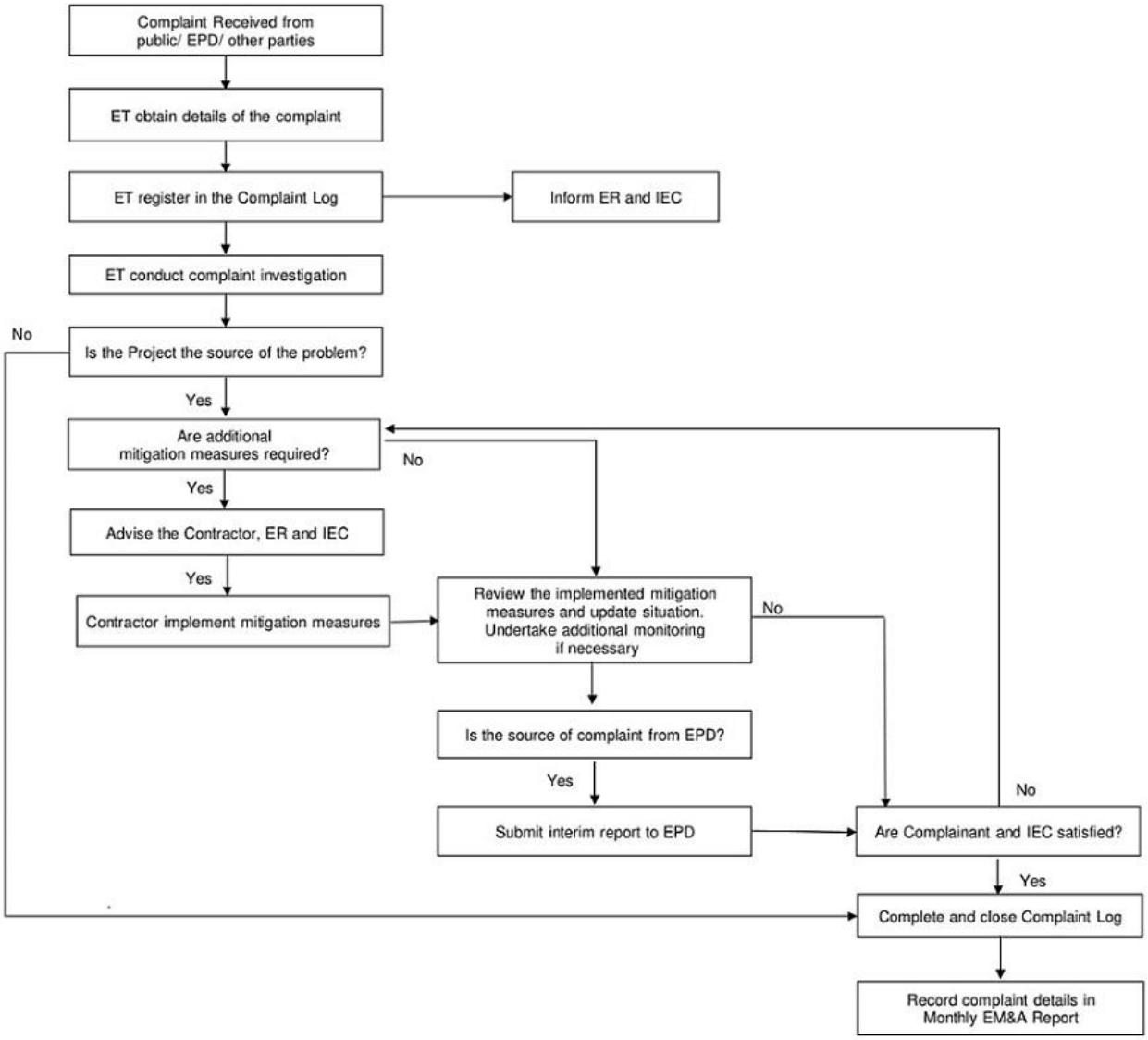
Name of Department: MTR Contract No. / Works Order No.: 1732

Monthly Summary Waste Flow Table for January 2024

Month	Actual Quantities of Inert Construction Materials Generated Monthly					
	(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-24	295.585	0.000	0.000	0.000	295.585	0.000
Feb-24	--	--	--	--	--	--
Mar-24	--	--	--	--	--	--
Apr-24	--	--	--	--	--	--
May-24	--	--	--	--	--	--
Jun-24	--	--	--	--	--	--
Sub-total	295.585	0.000	0.000	0.000	295.585	0.000
Jul-24	--	--	--	--	--	--
Aug-24	--	--	--	--	--	--
Sep-24	--	--	--	--	--	--
Oct-24	--	--	--	--	--	--
Nov-24	--	--	--	--	--	--
Dec-24	--	--	--	--	--	--
Total	295.585	0.000	0.000	0.000	295.585	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
2023	4832.103	535.988	0.000	0.000	4296.115	0.000
Accumulated Total	6354.161	608.116	0	0	5746.045	0

Month	Actual Quantities of Non-inert Construction Materials Generated Monthly					
	(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-24	0.000	0.000	0.000	0.000	0.000	16.100
Feb-24	--	--	--	--	--	--
Mar-24	--	--	--	--	--	--
Apr-24	--	--	--	--	--	--
May-24	--	--	--	--	--	--
Jun-24	--	--	--	--	--	--
Sub-total	0.000	0.000	0.000	0.000	0.000	16.100
Jul-24	--	--	--	--	--	--
Aug-24	--	--	--	--	--	--
Sep-24	--	--	--	--	--	--
Oct-24	--	--	--	--	--	--
Nov-24	--	--	--	--	--	--
Dec-24	--	--	--	--	--	--
Total	0.000	0.000	0.000	0.000	0.000	16.100
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
2023	0.000	0.0125	0.000	0.000	0.000	246.220
Accumulated Total	0.200	0.2895	0.300	0.010	93.660	655.700

Appendix H
Complaint Handling Procedure


Complaint Received from public/ EPD/ other parties
ET obtain details of the complaint
ET register in the Complaint Log
Inform ER and IEC
ET conduct complaint investigation
No
Is the Project the source of the problem?
Yes
Are additional mitigation measures required?
No
Yes
Advise the Contractor, ER and IEC
Yes
Contractor implement mitigation measures
Review the implemented mitigation measures and update situation. Undertake additional monitoring if necessary
No
Is the source of complaint from EPD?
Yes
Submit interim report to EPD
Are Complainant and IEC satisfied?
No
Yes
Complete and close Complaint Log
Record complaint details in Monthly EM&A Report

Appendix I
Event-Action Plan (Air Quality Monitoring)

EVENT	ACTION			
	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.	1. Confirm receipt of notification of exceedance in writing.	1. Identify source(s), investigate the causes of exceedance and propose remedial measures; 2. Implement remedial measures; and 3. 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.	1. Confirm receipt of notification of exceedance in writing; 2. In consultation with the ET and IEC agree with the Contractor on the remedial measures to be implemented; and 3. Supervise implementation of remedial measures	1. Identify source(s) and investigate the causes of exceedance; 2. Submit proposals for remedial measures to the ER, ET and IEC within three working days of notification for agreement; 3. Implement the agreed proposals; and 4. Amend proposal as appropriate.

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
LIMIT LEVEL				
Exceedance for one sample	1. Repeat measurement to confirm findings; 2. If exceedance is confirmed, inform the Contractor, IEC, EPD and ER; 3. Identify source(s), investigate the causes of exceedance and propose remedial; 4. Increase monitoring frequency to daily; and 5. Discuss with the ER, IEC and Contractor on the remedial measures and assess effectiveness.	1. Check monitoring data submitted by the ET; 2. Check Contractor's working method; 3. Discuss with the 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.	1. Confirm receipt of notification of exceedance in writing; 2. Review and agree on the remedial measures proposed by the Contractor; and 3. Ensure remedial measures properly implemented.	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 ER, ET and IEC within three working days of notification for agreement; 4. Implement the agreed proposals; and 5. Amend proposal if appropriate.
Exceedance for two or more consecutive samples	1. Repeat measurement to confirm findings; 2. If exceedance is confirmed, inform IEC, ER, Contractor and EPD; 3. Identify source(s), investigate the causes of exceedance and propose remedial measures; 4. Increase monitoring frequency to daily; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Arrange meeting with IEC and ER to discuss the remedial actions to be taken; 7. 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.	1. Confirm receipt of notification of exceedance in writing; 2. In consultation with the ET and IEC, agree with the Contractor on the remedial measures to be implemented; 3. Supervise the implementation of remedial measures; and 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.	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			
	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

Reporting Period	Environmental Complaint Statistics		
	Frequency	**Cumulative**	**Complaint Nature**
1 January 2024 - 31 January 2024	0	0	N/A

Table J3 Statistical Summary of Environmental Non-compliance

Reporting Period	Environmental Non-compliance Statistics		
	Frequency	**Cumulative**	**Details**
1 January 2024 - 31 January 2024	0	0	N/A

Table J4 Statistical Summary of Environmental Summons

Reporting Period	Environmental Summons Statistics		
	Frequency	**Cumulative**	**Details**
1 January 2024 - 31 January 2024	0	0	N/A

Table J5 Statistical Summary of Environmental Prosecution

Reporting Period	Environmental Prosecution Statistics		
	Frequency	**Cumulative**	**Details**
1 January 2024 - 31 January 2024	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 (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.	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 & 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 Impact (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.	To minimise impacts to surrounding habitats	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 Quality 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 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.	To minimise impact from construction site run-off	Contractor	All works area	Construction phase		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		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
S5.8.7	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		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		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 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
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, 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.	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	<u>Accidental Spillage of Chemicals</u> • 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	<u>Groundwater from Contaminated Areas, Contaminated Site Runoff and Wastewater from Land Decontamination</u> • 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

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
	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 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						

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 Management 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 wastes generated, recycled and disposed (including the	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; • 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.	To minimize waste generation	Contractor	All works areas	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 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
S7.5.7 to 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	To avoid and minimize impacts arising from waste management	Contractor	All works areas	Construction phase	WDO	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
	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.						
S7.5.10 to 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. 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.	To avoid and minimize impacts arising from waste management	Contractor	All works areas	Construction phase	WDO	Implemented
S7.5.13 to 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.						
S7.5.15	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.	To avoid and minimize impacts arising from waste management	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 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
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 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 Contamination							
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	"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

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 impact on surrounding setting	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.		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

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 during construction should be reinstated on like-to-like basis, to the satisfaction of the relevant Government Departments.	To minimize the landscape impact on surrounding setting	Contractor	All works areas	Construction phase	-	To be implemented

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 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				

Appendix M
Monitoring Schedule of the Coming Month

Siu Ho Wan Depot Property Development MTR Contract No.: 1701-Oyster Bay Station And Associated Works
Tentative Dust and Noise Monitoring Schedule in February 2024

FEBRUARY 2024

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

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