

The EIA Ordinance Register Office Environmental Protection Department 27/F, Southorn Centre 130 Hennessy Road Wan Chai, Hong Kong Our ref: SHO/SHD-COR-CEM-ENV-070047

Attn: Mr. Patrick Wong

10 March 2022

BY HAND

Dear Patrick,

Siu Ho Wan Depot Property Development EP-588/2021 - Siu Ho Wan Station and Siu Ho Wan Depot Replanning Works Condition 3.4 – Monthly EM&A Report (February 2022)

In pursuant to Condition 3.4 of the captioned Environmental Permit (EP), we are pleased to submit 1 hard copy and 1 electronic copy of the Monthly EM&A Report for February 2022. Please be informed that the submission has been certified by the ET Leader and verified by the IEC.

Should you have any queries, please feel free to contact our Cyrus Lau at 2688 1713.

Yours sincerely,

Lisa Poon

Chief Environmental Manager (CW)

Encl.

c.c. IEC

- Mr. James Choi

Contractor ETL

- Mr. FC Tsang

LP/BC/AS/AL/ac

Direct Line: 2688 1713 Direct Fax: 2993 7577

MTR Corporation Limited

Siu Ho Wan Station and Siu Ho Wan Depot Replanning Works

Monthly EM&A Report

(February 2022)

Certified by:	Lisa Poon
Position:	Environmental Team Leader
Date:	8 March 2022

MTR Corporation Limited

Siu Ho Wan Station and Siu Ho Wan Depot Replanning Works

Monthly EM&A Report

(February 2022)

Verified by	z: James Choi James
Position: _	Independent Environmental Checker
Date:	8 March 2022





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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 28 February 2022)

	Name	Signature
Prepared by	Andy Mok	sonik
Checked & Reviewed by	F. C. Tsang	Toug Fartheory

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EXECUTIVE SUMMARY

- A.1 This is the 3rd monthly Environmental Monitoring and Audit (EM&A) report presenting the EM&A works carried out during the reporting period from 1 to 28 February 2022.
- A.2 A summary of the construction works reported by the Main Contractor for the Project during the reporting month is listed below.

Construction Activities undertaken

- Site setup at site office
- UU detection at AB11 area (including trial pit)
- General survey works
- Instrumentation monitoring
- Tree felling works
- Civil works for cable and watermain diversion
- 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 Joint weekly site inspections were conducted by representatives of the Contractor, Engineer and Contractor's ET on 4, 10, 17 and 24 February 2022. One joint site inspection with IEC also undertaken on 17 February 2022. Details of the audit findings and implementation status are presented in **Section 5**.
- A.5 Details of waste management are presented in **Section 3**.
- A.6 No exceedance of the Action and Limit Levels 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

- Trial pit for cable trench and water main
- Civil works for cable trench and draw-pit construction for cable diversion
- Instrumentation monitoring
- AB11 modification works

Construction Activities to be undertaken

- Pre-drill works
- Piling works for EC3/WC3
- Tree felling
- Construction of footings for EC1/WC1/EC2/WC2

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 Station.
- 1.1.2. The 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.
- 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 to 28 February 2022) 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

- Site setup at site office
- UU detection at AB11 area (including trial pit)
- General survey works
- Instrumentation monitoring
- Tree felling works
- Civil works for cable and watermain diversion
- 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				
Notification	From	То	Status	Remark		
/Reference No.	FIOIII	10				
Environmental Permit						
EP-588/2021	22 March 2021	N/A	Valid	-		
Wastewater Discharge Li	cense					
Ref. 472985	(Pending)	(Pending)	Submitted	Application submitted on		
	(Pending) (Pending) Submitted		22 Oct 2021			
Notification of Constructi	ion Works under	the Air Pollution	n Control (Constru	ction Dust) Regulation		
Ref. 472845	N/A	N/A	Notified	Notification submitted on		
Kei. 472043	IN/A	N/A Notified		19 Oct 2021		
Chemical Waste Produce	r Registration					
WPN5213-961-P3457-01	19 Nov 2021	N/A	Valid	-		
Billing Account for Dispo	sal of Constructi	on Waste				
7042328	25 Nov 2021	N/A	Valid	-		
Construction Noise Permit						
GW-RS1032-21	5 Jan 2022	4 July 2022	Valid	Site office genset and main		
G W -K51032-21	J Jan 2022			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 (1st submission)		
1.12	Commencement Date of Construction	12 July 2021 (2 nd submission)		
	Construction	12 August 2021 (3 rd submission)		
	C W . l . Dl	1 November 2021 (1 st submission)		
2.7	Construction Works Phasing Schedule	20 December 2021 (2 nd submission)		
	Schedule	29 December 2021 (Deposited)		
2.8	Environmental Permit Submission	12 August 2021		
2.0	Schedule	10 September 2021 (Deposited)		
2.9	Management Organization	1 November 2021 (1 st submission)		
2.9	Management Organization	20 December 2021 (2 nd submission)		
	Construction Noise Mitigation Plan	1 November 2021 (1 st submission)		
2.10		20 December 2021 (2 nd submission)		
		28 December 2021 (Deposited)		
		1 November 2021 (1 st submission)		
2.13	Waste Management Plan	20 December 2021 (2 nd submission)		
		28 December 2021 (Deposited)		
3.3	Baseline Monitoring Report	1 November 2021		
3.3	Basefille Mollitoring Report	16 November 2021 (Deposited)		
3.4	Monthly EM&A Report (December 2021)	13 January 2022		
3.4	Monthly EM&A Report (January 2022)	15 February 2022		
3.4	Monthly EM&A Report (February 2022)	To be submitted within 10 working days after the end of the reporting month		
4.2	Dedicated Internet Website	12 January 2022		

2.1.2. Details of the major construction activities undertaken in this reporting period are shown in **Table 2.2**.

Table 2.2 Summary of the Construction Activities Undertaken during the Reporting Period

Construction activities undertaken	Remarks on progress
Site setup at site office	On-going
UU detection at AB11 area (including trial pit)	On-going
General survey works	On-going
Instrumentation monitoring	On-going
Tree felling works	On-going
Cable works for cable and watermain diversion	On-going

2.1.3. 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 2.3**.

Table 2.3 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-3)	A.005.11a	30 April 2021
1-hour TSP	Portable direct reading dust meter (1-hour TSP)	Sibata Digital Dust Monitor (Model No. LD-3B)	A.005.16a	30 April 2021

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 Equipment

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 4, 7, 12, 18 and 24 February 2022 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.
- 3.4.2. 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

Monitoring Location	Range (μg/m³)	Action Level (μg/m³)	Limit Level (μg/m³)	No. of Exceedances
DM1	58.4 – 66.6	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					
Reporting period N		Non-inert C&D Materials				
		disposed at	Rec	ycled materials		
				Paper/ cardboard (in '000 kg)	Plastics (in '000 kg)	Metals (in '000 kg)
Feb 2022	0.0	0.0	28.18	0.051	0.0	0.0

- 3.4.4. All dump trucks for C&D materials transportation and disposal will be 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 criteria occur, action in accordance with the Event and Action Plan in **Appendix I** shall be carried out.
- 4.1.3. No exceedance of the Action and Limit Levels 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, 10, 17, and 24 February 2022. One joint site inspection with the IEC was also undertaken on 17 February 2022. No observations and reminders 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 or Reminder	Follow-up Status
4 February 2022	1. None.	1. None.
10 February 2022	1. None.	1. None.
17 February 2022	1. None.	1. None
24 February 2022	1. None.	1. 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:
 - Trial pit for cable trench and water main
 - Civil works for cable trench and draw-pit construction for cable diversion
 - Instrumentation monitoring
 - AB11 modification works
 - Pre-drill works
 - Piling works for EC3/WC3
 - Tree felling
 - Construction of footings for EC1/WC1/EC2/WC2
- 6.1.2. Potential environmental impacts arising from the above construction activities are mainly associated with dust 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

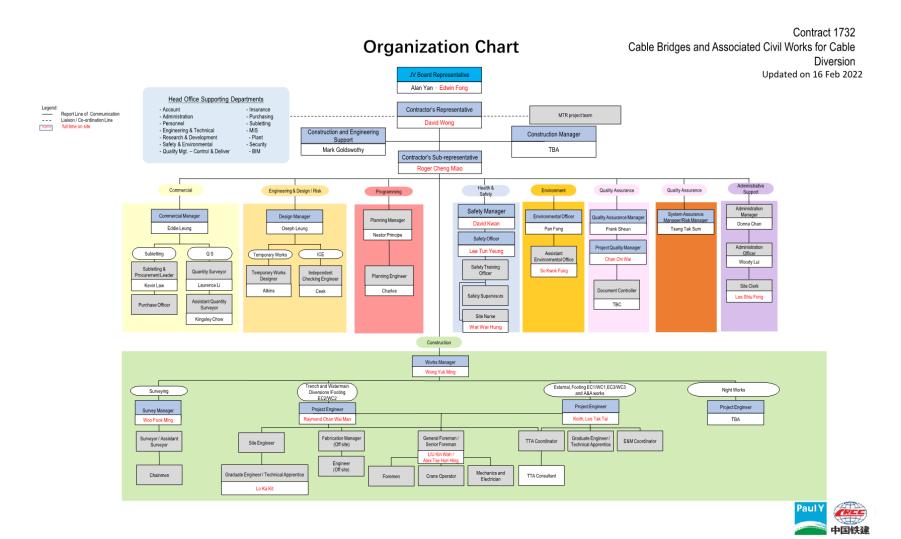
- 7.1.1. This 3rd monthly EM&A Report presents the EM&A works undertaken during the period from 1 February to 28 February 2022 in accordance with the EM&A Manual and the requirement under EP-588/2021.
- 7.1.2. Air quality (including 1-hour TSP) impact monitoring was carried out in the reporting period. 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 17 February 2022. No observations and reminders were reported during the site inspections. The environmental performance of the Project was therefore 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.

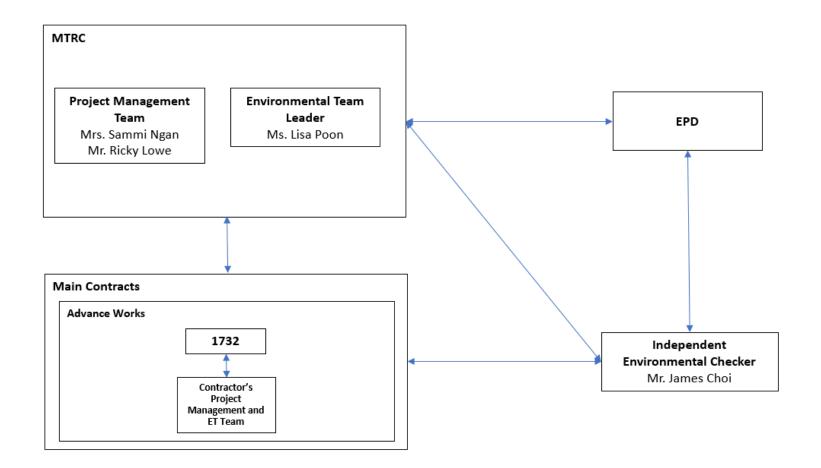
Appendix A Construction Programme

Construction Activities						202										22						1 1			023			
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Contrct 1732 – Cable Bridges and Associated Civil Works for Cable Diversion	2																											
Site Clearance & Hoarding/UU/Cable Trenches	2.1																										Т	\Box
H-piling	2.2																										\top	
Excavation (Soil)	2.3											П															T	
Substructure (footings, pile caps, columns)	2.4																											
Backfilling	2.5																											
Superstructure (Cable Bridges)	2.6																Т										T	

Appendix B Project Organization Chart

Project O-Chart





MTR's Contact:

MTRC - Project Management Team									
Position	Name	Telephone							
Chief Project Co-ordination Manager	Mrs. Sammi Ngan	2208 3753							
Senior Design Manager-Civil	Mr. Ricky Lowe	2208 3347							

MTRC - Environmental Team									
Position	Name	Telephone							
Environmental Team Leader	Ms. Lisa Poon	3127 6295							
Environmental Team Member	Mr. Alex Siu	3127 6292							

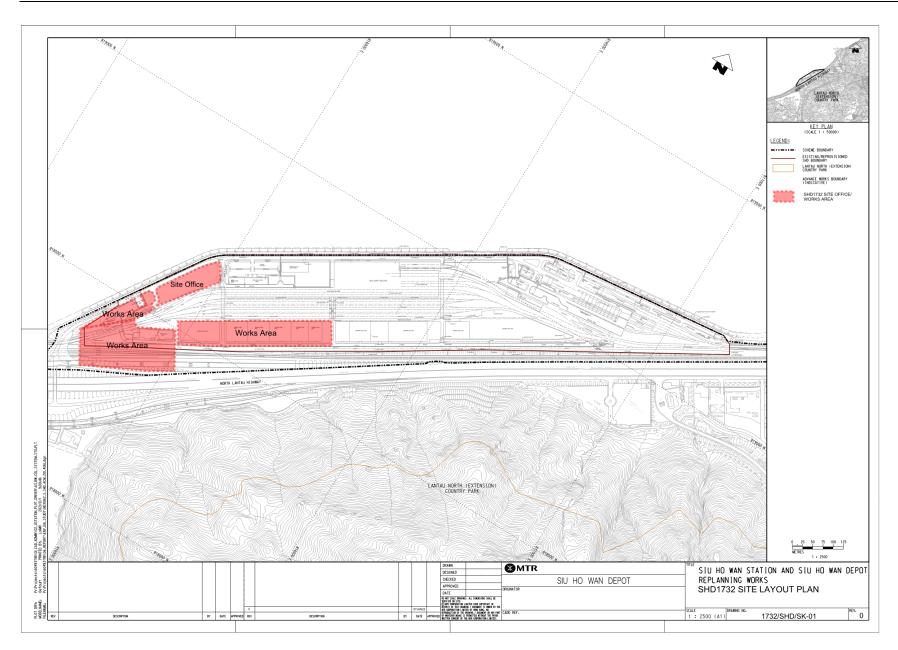
ANewR Consulting Limited - IEC		
Position	Name	Telephone
Independent Environmental Checker	Mr. James Choi	2618 2836

Contractor's Contact:

Main Works Contract	Description	Contractor	Position	Name	Telephone
	Construction of cable bridges and	David V. CDCCI	Project Manager	Eric Lo	9465 7270
1732	associated civil works for cable	Paul Y – CRCCI Joint Venture	Environmental Officer	Pan Fong	9436 9435
	diversion	Joint Venture	Environmental Team Leader	FC Tsang	9223 4543

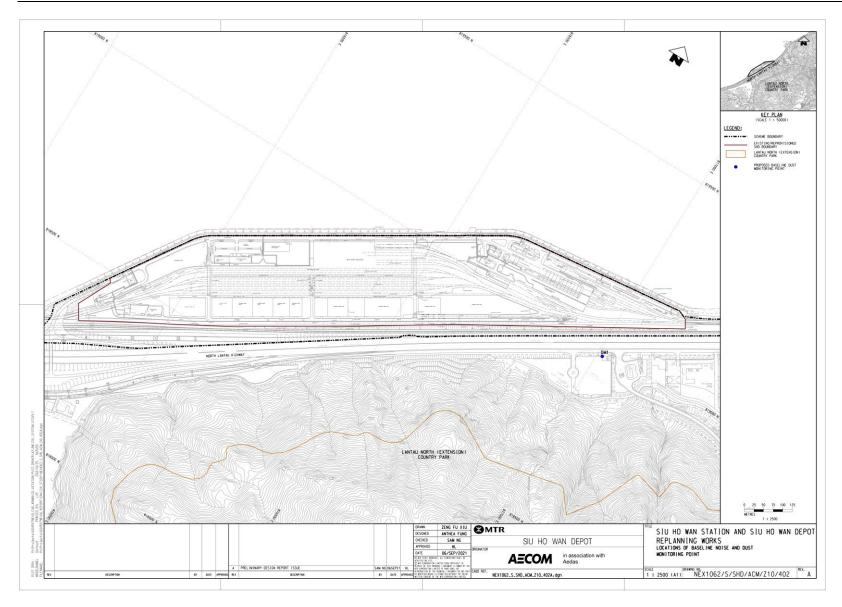
Appendix C

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)

F	0	1	п	DI	M	FN	IT	CA	11	IR	P	A	TI	0	M	D	F	CC	DI	1
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Equipment No.: Sensitivity Adjustment Scale Setting: Operator: Mike Shek (MSKM) Standard Equimment Equipment: Venue: Fanling Government Secondary School TE-5170 Serial No.: Serial No.: Serial No.: Sensitivity Adjustment Scale Setting (Before Calibration): Sensitivity Adjustment Scale Setting (After Calibration): Sensitivity Adjustment Scale Setting (After Calibration): Operator: Hour Date Time Ambient Condition Concentration Temp ("C) R.H.(%) (mg/m3) Y-axis X-axis 1 30/04/21 9:30-10:30 28.0 78 0.04950 1902 31.70 2 30/04/21 10:30-11:30 28.0 78 0.05250 1902 31.70 2 30/04/21 11:30-12:30 28.0 78 0.05250 2122 35.37 3 30/04/21 11:30-12:30 28.0 78 0.05520 2284 38.07 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): Correlation coefficient: 0.9993 Validity of Calibration Record: 30-Apr-22				Laser Dus	t Monitor	7		
Equipment No.: Sensitivity Adjustment Scale Setting: Operator: Mike Shek (MSKM) Standard Equimment Equipment: Venue: Fanling Government Secondary School TE-5170 Serial No.: Serial No.: Last Calibration Date: Sensitivity Adjustment Scale Setting (Before Calibration): Sensitivity Adjustment Scale Setting (After Calibration): Temp(*C) R.H.(%) Temp(*C) Temp	Manufac	turer/Brand:		SIBATA				
Sensitivity Adjustment Scale Setting: 799 CPM	Model N	o.:		LD-3				
Operator: Mike Shek (MSKM)	Equipme	nt No.:		A.005.11a	1			
Standard Equimment Equipment: Venue: Fanling Government Secondary School TE-5170 Serial No.: Last Calibration Date: Calibration Result Sensitivity Adjustment Scale Setting (Before Calibration): Temp (°C) R.H.(%) (mg/m3) Y-axis 1 30/04/21 9:30-10:30 28.0 78 0.04950 1902 31.70 2 30/04/21 11:30-12:30 28.0 78 0.05250 2122 35.37 4 30/04/21 12:30-13:30 28.0 78 0.05250 2122 35.37 4 30/04/21 12:30-13:30 28.0 78 0.05250 2122 35.37 A 30/04/21 12:30-13:30 28.0 78 0.05250 2284 38.07 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): Correlation Coefficient: 0.0993 Validity of Calibration Record: 30-Apr-22	Sensitivit	ty Adjustment Sca	le Setting:	799 CPM				
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Venue: Fanling Government Secondary School TE-5170 Serial No.: 3154 Last Calibration Date: 23-Apr-21 Calibration Result Sensitivity Adjustment Scale Setting (Before Calibration): 799 CPM Sensitivity Adjustment Scale Setting (After Calibration): 799 CPM Hour Date (dd/mm/yy) Time Ambient Condition (mg/m3) (y-axis y-axis y-axis and y-axis y-axis and y-axis y-axis and y-axis y-axis and y-axis y-axis and y-axis y-axis and y-axis y-axis and y-axis	Standard	Equimment						
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Serial No.: 3154 23-Apr-21	Venue:			Fanling Go	overnmen	t Secondary Scho	ol	
Calibration Pate: 23-Apr-21	Model N	o.:						
Calibration Result Sensitivity Adjustment Scale Setting (Before Calibration): 799 CPM	Serial No	.:		3154				
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Sensitivity Adjustment Scale Setting (Before Calibration): 799 CPM								
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Hour								-
(dd/mm/yy)		, , , , , , , , , , , , , , , , , , , ,		ound) ution	.,.		- 755	
Y-axis X-axis 1 30/04/21 9:30-10:30 28.0 78 0.04950 1902 31.70	Hour	Date	Time	Ambient C	Condition	Concentration 1	Total Count 2	Count/
1 30/04/21 9:30-10:30 28.0 78 0.04950 1902 31.70 2 30/04/21 10:30-11:30 28.0 78 0.05045 2002 33.37 3 30/04/21 11:30-12:30 28.0 78 0.05250 2122 35.37 4 30/04/21 12:30-13:30 28.0 78 0.05520 2284 38.07 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: 0.9993 Validity of Calibration Record: 30-Apr-22		(dd/mm/yy)		Temp (°C)	R.H.(%)	(mg/m3)		Minute 3
2 30/04/21 10:30-11:30 28.0 78 0.05045 2002 33.37 3 30/04/21 11:30-12:30 28.0 78 0.05250 2122 35.37 4 30/04/21 12:30-13:30 28.0 78 0.05520 2284 38.07 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: 0.9993 Validity of Calibration Record: 30-Apr-22						Y-axis		X-axis
3 30/04/21 11:30-12:30 28.0 78 0.05250 2122 35.37 4 30/04/21 12:30-13:30 28.0 78 0.05520 2284 38.07 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: 0.9993 Validity of Calibration Record: 30-Apr-22	1	30/04/21	9:30-10:30	28.0	78	0.04950	1902	31.70
4 30/04/21 12:30-13:30 28.0 78 0.05520 2284 38.07 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: 0.9993 Validity of Calibration Record: 30-Apr-22	2	30/04/21	10:30-11:30	28.0	78	0.05045	2002	33.37
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): Correlation coefficient: 0.9993 Validity of Calibration Record: 30-Apr-22	3	30/04/21	11:30-12:30	28.0	78	0.05250	2122	35.37
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): Correlation coefficient: 0.0015 0.9993 Validity of Calibration Record: 30-Apr-22	4	30/04/21	12:30-13:30	28.0	78	0.05520	2284	38.07
3 Count/minute was calculated by (Total Count/60) By Linear Regression of Y on X Slope (K-factor): 0.0015 Correlation coefficient: 0.9993 Validity of Calibration Record: 30-Apr-22	Note:	1 Monitoring	data was measu	red by High	n Volume	Sampler		
By Linear Regression of Y on X Slope (K-factor): Correlation coefficient: 0.0015 0.9993 Validity of Calibration Record: 30-Apr-22		2 Total Count	was logged by L	aser Dust N	Monitor			
Slope (K-factor): 0.0015 Correlation coefficient: 0.9993 Validity of Calibration Record: 30-Apr-22					Count/60))		
Slope (K-factor): 0.0015 Correlation coefficient: 0.9993 Validity of Calibration Record: 30-Apr-22		③ Count/minu	te was calculate	ed by (Total	Countyou			
Correlation coefficient: 0.9993 Validity of Calibration Record: 30-Apr-22	By Linear			ed by (Total	countyou			
	By Linear	Regression of Y o	n X		county oc			
Remarks:	By Linear	Regression of Y o	n X	0.0015	County oc			
		Regression of Y o Slope (K-factor): Correlation coef	n X : : :ficient:	0.0015				
	Validity o	Regression of Y o Slope (K-factor): Correlation coef of Calibration Reco	n X : : :ficient:	0.0015				
	Validity o	Regression of Y o Slope (K-factor): Correlation coef of Calibration Reco	n X : : :ficient:	0.0015				
	Validity o	Regression of Y o Slope (K-factor): Correlation coef of Calibration Reco	n X : : :ficient:	0.0015				

Manufacturer/Brand:

Type:

EQUIPMENT CALIBRATION RECORD

Laser Dust Monitor

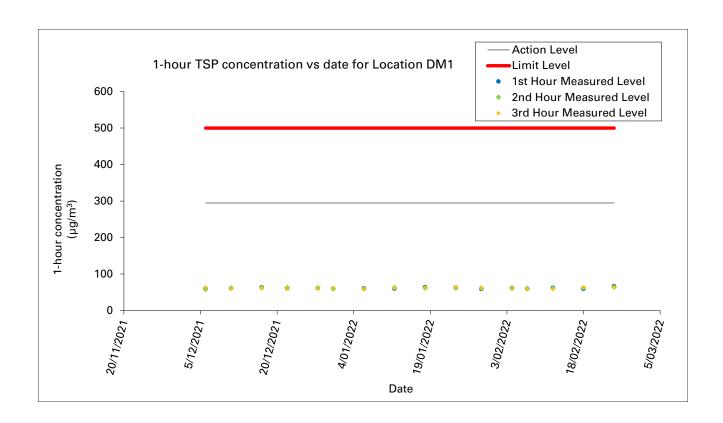
SIBATA

	0.:		LD-3B				
Equipme	nt No.:		A.005.16a	9			
Sensitivit	y Adjustment Sca	le Setting:	521 CPM				
Operator	*		Mike Shel	k (MSKM)			
Standard	Equimment						
Equipme	nt:		High Volu	me Samn	ler		
Venue:					nt Secondary Scho	ol	
Model No	o.:		TE-5170		it decondary deno		7
Serial No			3154				
Last Calib	oration Date:		23-Apr-21				
Calibratio	an Basult						
Calibratio	ni kesuit						
Sensitivit	y Adjustment Sca	le Setting (Refo	re Calibratio	on).		521	СРМ
	y Adjustment Sca y Adjustment Sca					521	
Sensitivit	y Aujustinent Sca	ie setting (Arter	Calibration	1).		521	СРМ
Hour	Date	Time	Ambient 0	Condition	Concentration (1)	Total Count (2)	Count/
	(dd/mm/yy)		Temp (°C)	R.H.(%)	(mg/m3)		Minute(3)
					Y-axis		X-axis
1	30/04/21	9:30-10:30	28.0	78	0.04950	1860	31.00
2	30/04/21	10:30-11:30	28.0	78	0.05045	1955	32.58
3	30/04/21	11:30-12:30	28.0	78	0.05250	2062	34.37
4	30/04/21	12:30-13:30	28.0	78	0.05520	2163	36.05
Note:	2 Total Count	data was measu was logged by L Ite was calculate	aser Dust N	Monitor			
By Linear	Regression of Y	on X					
By Linear	Regression of Y of Slope (K-factor)		0.0015				
By Linear		:	0.0015				
	Slope (K-factor)	: fficient:		or-22			
	Slope (K-factor) Correlation coe f Calibration Reco	: fficient:	0.9997	pr-22			

Appendix F
Monitoring Data (Air Quality Monitoring)

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

	***	Start	1st Hour	2 nd Hour	3rd Hour
Date	Weather	Time	μg/m ³	μg/m³	μg/m³
4/2/2022	Fine	10:40	61.7	61.1	62.3
7/2/2022	Fine	10:30	59.7	60.6	58.4
12/2/2022	Sunny	11:25	62.7	60.6	59.8
18/2/2022	Fine	10:50	59.6	62.7	63.8
24/2/2022	Sunny	13:20	66.6	64.1	62.9
	$66.6~\mu\text{g/m}^3$				



Appendix G
Waste Flow Table

Monthly Summary Waste Flow Table

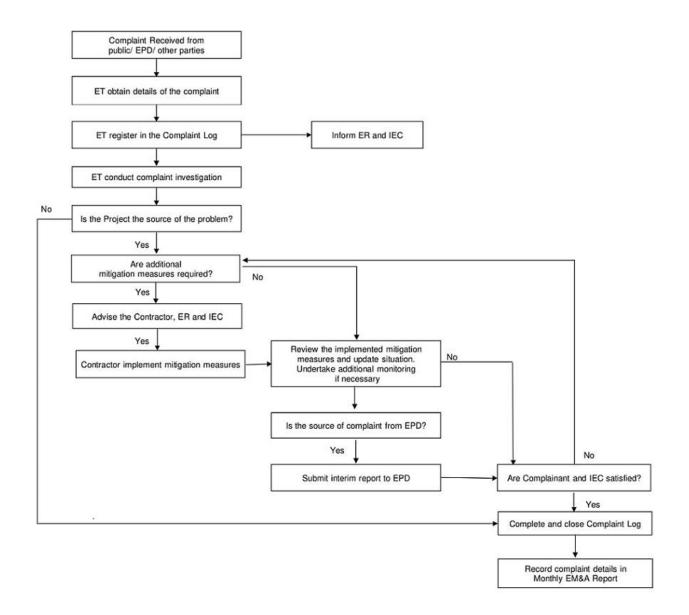
Name of Department: MTR Contract No. / Works Order No.: _1732__

Monthly Summary Waste Flow Table for <u>February 2022</u>

			Actual Quantities of Inert Co	onstruction Waste Genera	ated 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 'tonnes)	(in 'tonnes)	(in 'tonnes)	(in 'tonnes)	(in 'tonnes)	(in 'tonnes)
Jan-22	0	0	0	0	0	0
Feb-22	0	0	0	0	0	0
Mar-22	NA	NA	NA	NA	NA	NA
Apr-22	NA	NA	NA	NA	NA	NA
May-22	NA	NA	NA	NA	NA	NA
Jun-22	NA	NA	NA	NA	NA	NA
Sub-total	NA	NA	NA	NA	NA	NA
Jul-22	NA	NA	NA	NA	NA	NA
Aug-22	NA	NA	NA	NA	NA	NA
Sep-22	NA	NA	NA	NA	NA	NA
Oct-22	NA	NA	NA	NA	NA	NA
Nov-22	NA	NA	NA	NA	NA	NA
Dec-22	NA	NA	NA	NA	NA	NA
Total	0.0	0.0	0.0	0.0	0.0	0.0
2021	0.0	0.0	0.0	0.0	0.0	0.0
Accumulated Total	0.0	0.0	0.0	0.0	0.0	0.0

		Actual Quantit	ies of Non-inert Construction	Waste Generated Monthly		
Month	(g) Metals	(h) Paper/ cardboard packaging	(i) Plastics	(j) Chemical Waste	(k) Others, e.g. General Refuse disposed of at Landfill	
	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in 'tonnes)	
	generated	generated	generated	generated	generated	
Jan-22	0	0.03	0	0	140.76	
Feb-22	0	0.051	0	0	28.18	
Mar-22	NA	NA	NA	NA	NA	
Apr-22	NA	NA	NA	NA	NA	
May-22	NA	NA	NA	NA	NA	
Jun-22	NA	NA	NA	NA	NA	
Sub-total	NA	NA	NA	NA	NA	
Jul-22	NA	NA	NA	NA	NA	
Aug-22	NA	NA	NA	NA	NA	
Sep-22	NA	NA	NA	NA	NA	
Oct-22	NA	NA	NA	NA	NA	
Nov-22	NA	NA	NA	NA	NA	
Dec-22	NA	NA	NA	NA	NA	
Total	0.0	0.081	0.0	0.0	168.94	
2021	0.0	0.0	0.0	0.0	0.0	
Accumulated Total	0.0	0.081	0.0	0.0	168.94	

Appendix H
Complaint Handling Procedure



Appendix I

Event-Action Plan (Air Quality Monitoring)

EVENT		ACTION		
EVENT	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.	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			
EVENI	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.	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					
	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

Statistical Summary of Exceedance

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

Statistical Summary of Environmental Complaint

Donauting Davied	Environmental Complaint Statistics				
Reporting Period	Frequency	Cumulative	Complaint Nature		
1 February 2022- 28 February 2022	0	0	N/A		

Statistical Summary of Environmental Non-compliance

Departing Devied	Environmental Non-compliance Statistics					
Reporting Period	Frequency	Cumulative	Details			
1 February 2022- 28 February 2022	0	0	N/A			

Statistical Summary of Environmental Summons

Departing Devied	Environmental Summons Statistics				
Reporting Period	Frequency	Cumulative	Details		
1 February 2022-	0	0	NI/A		
28 February 2022	U	U	N/A		

Statistical Summary of Environmental Prosecution

Statistical Summary of Entra of the following the state of the state o							
Domontino Dominal	Environmental Prosecution Statistics						
Reporting Period	Frequency	Cumulative	Details				
1 February 2022-	0	0	N/A				
28 February 2022	U	U	IN/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)						
\$3.8.1	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. 	dust impacts	Contractor	All works area	Construction phase	Air Pollution Control Ordinance (APCO)	Implemented
	Provision of wind shield and dust extraction units or similar dust mitigation measures at the loading points,						

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 Imp	act (Construction Phase)	I	I	1	I	<u> </u>	
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 	To minimise impacts to surrounding habitats	Contractor	All works area	Construction phase	TM-EIAO	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
	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	ity 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	To be

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
	1 / 1					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 run-off	Contractor	All works area		WPCO, EIAO- TM, ProPECC PN 1/94, TM- DSS	To be 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	impact from construction site run-off	Contractor	All works area	phase	WPCO, EIAO- TM, ProPECC PN 1/94, TM- DSS	To be 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
	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	To be 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	To be 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.	impact from construction site run-off		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,	To minimise	Contractor	All works area	Construction	WPCO,	To be

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
	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
	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		Construction phase	WPCO, EIAO- TM, ProPECC PN 1/94, TM- DSS	Implemented
	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
	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		Construction phase	WPCO, EIAO- TM, ProPECC PN 1/94	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
	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	All works area	Construction phase	WPCO, EIAO- TM, ProPECC PN 1/94, TM- DSS	Pending for approval
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	All works area	Construction phase	WPCO, EIAO- TM, ProPECC PN 1/94, TM- DSS	To be 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.	construction site	Contractor	All works area	Construction phase	WPCO, EIAO- TM, ProPECC PN 1/94, TM- DSS	To be 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
S5.8.16		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
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	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
	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	
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

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
	conducted following the recommendations of Land			contamination		Note for	
	Contamination Assessment to be conducted in future.	· ·				Contaminate	
	Any excavated contaminated material and exposed					d Land	
	contaminated surface should be properly housed and covered to avoid generation of contaminated runoff.					Assessment	
	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						

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
	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.						

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
	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 Mar	nagement Implication (Construction Phase)						
S7.5.3	construction phase include: Nomination of approved personnel, such as a site	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
S7.5.4	 disposal sites); and Preparation of Waste Management Plan (WMP), as part of the Environmental Management Plan (EMP) Recommendations to achieve waste reduction are as follow: Segregate and store different types of construction 		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
	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 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
S7.5.6	Within the stockpile areas, the following measures should be taken to control potential environmental impacts or nuisance:		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
	 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; 	arising from waste management					
	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.						
\$7.5.9	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.		Contractor		Construction phase	WDO	Implemented
	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						

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
	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	EPD as a Chemical Waste Producer, and to follow the	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.						
S7.5.13 to S7.5.14	environmental impacts. For minimization of 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
	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 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		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 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
	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		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
	water.						
Land Cont	amination		l		l	l	1
\$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, 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

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
	 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	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.	To minimize the Landscape and visual impact on	Contractor	All works areas	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
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.	surrounding setting To minimize visual impact to adjacent VSRs.	Contractor	All works areas	Construction phase	-	N/A
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.	landscape impact	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 Tentative Dust and Noise Monitoring Schedule in February 2022

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

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 March 2022

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

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