Environmetnal Team Services for Contract No. SS H504 Design and Construction of Chai Wan Government Complex and Vehicle Depot

16th Monthly EM&A Report (February 2023)

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Date:

10 March 2023

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Date:

10 March 2023



Contract No. SS H504 Design and Construction of Chai Wan Government Complex and Vehicle Depot

16th Monthly EM&A Report Yau Lee Construction Co, Ltd 2023-03-10



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Document control record

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Executive Summary

Aurecon Hong Kong Limited (Aurecon) was commissioned by the Yau Lee Construction Co, Ltd (Yau Lee) to undertake the role of Environmental Team (ET) for carrying out the environmental monitoring and audit (EM&A) works for the "Contract No. SS H504 Design and Construction of Chai Wan Government Complex and Vehicle Depot (The Project).

An Environmental Permit (EP) No. EP-505/2015 was issued by the Environmental Protection Department (EPD) on 17 December 2015 for the construction of this project based on the Environmental Impact Assessment (EIA) Report (Register No: AEIAR-191/2015) approved by the EPD. The latest EP No. EP-505/2015/A was subsequently issued by the EPD on 8 November 2019 based on the documents (including an Environmental Review Report (ERR)) for the application of Variation of Environmental Permit.

The construction phase and EM&A programme of the Project commenced on 25 November 2021.

This 16th Monthly EM&A Report presents the EM&A works conducted from 1 February 2023 to 28 February 2023 in accordance with the EM&A Manual.

Summary of Construction Works undertaken during Report Period

The major construction works undertaken during the reporting period include:

-	Piling tests
-	Sheet piling work
-	ELS works
-	Pile cap & tie beam construction
-	Fabrication of precast elements

Environmental Monitoring and Audit Progress

A summary of the monitoring activities in this reporting period is listed below:

-	Construction Noise Monitoring during normal weekdays at each monitoring station	4 times
-	Joint Environmental Site Inspection	4 times

Nosie

4 sets of 30-minute construction noise measurement were carried out at each monitoring stations during normal weekdays of the reporting period. No exceedance of Action and Limit Levels of construction noise was recorded during the reporting period.

Environmental Site Inspection

Joint environmental site inspections were carried out on 03, 09, 16 and 23 February 2023. The joint environmental site inspection was carried out by the representatives of the

Engineer's Representative (ER), the Contractor, IEC and the ET on 03 February 2023. The Contractor has generally implemented the mitigation measures as recommended.

Environmental Exceedance/Non-conformance/Compliant/Summons and Prosecution

No exceedance of the Action and Limit Levels of construction noise was recorded at designated monitoring stations during the reporting period.

No non-compliance event was recorded during the reporting period.

No environmental complaint and summons/prosecutions was received in this reporting period.

EPD conducted general site inspection on 23 February 2023. No special findings were identified during the inspection.

Future Key Issues

Works to be undertaken in the next month include:

Piling tests
Sheet piling work
ELS works
Pile cap & tie beam construction works
Fabrication of precast elements

Potential environmental impacts arising from the above construction activities are mainly associated with dust, construction noise, site runoff and waste management.

1 Introduction

1.1.1 Aurecon Hong Kong Limited (Aurecon) was commissioned by the Yau Lee Construction Co, Ltd (Yau Lee) to undertake the role of Environmental Team (ET) for carrying out the environmental monitoring and audit (EM&A) works for the "Contract No. SS H504 Design and Construction of Chai Wan Government Complex and Vehicle Depot (The Project).

1.2 Purpose of this Report

1.2.1 This is the sixteenth EM&A report which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period from 01 February 2023 to 28 February 2023.

1.3 Structure of the Report

1.3.1 The structure of the report is as follows:

Section 1 - Introduction

- details the background, purpose and structure of the report.

Section 2 - Project Information

- summarises background and scope of the Project, site description, project organization and contact details, construction programme, the construction works undertaken and the status of Environmental Permit(s)/License(s) during the reporting period.

Section 3 - Environmental Monitoring Requirement

- summarises the monitoring parameters, monitoring programmes, monitoring methodologies, monitoring frequency, monitoring locations, Action and Limit Levels, Event/Action Plans.

Section 4 - Implementation Status on Environmental Mitigation Measures

- summarises the implementation of environmental protection measures during the reporting period.

Section 5 - Monitoring Results

- summarises the monitoring results obtained in the reporting period.

Section 6 - Environmental Site Auditing

 summarises the audit findings of the weekly site inspections undertaken within the reporting period.

Section 7 - Environmental Non-conformance

- summarises any monitoring exceedance, environmental complaints and environmental summons within the reporting period.

Section 8 - Future Key Issues

- summarises the impact forecast and monitoring schedule for the next reporting month.

Section 9 - Review of EM&A Data and EIA Predictions

- compares and contrasts the EM&A data in the month with the EIA predictions and annotates with explanation for any discrepancies.

Section 10 - Conclusions

2 Project Information

2.1 Background

- 2.1.1 On 5 October 2015, the Environment Impact Assessment (EIA) for the proposed "Chai Wan Government Complex and Vehicle Depot" (AEIAR-191/2015, hereafter referred to as "the Project") was approved and an Environmental Permit (EP) (EP-505/2015) for the construction of the Project was issued. The latest EP No. EP-505/2015/A was subsequently issued by the EPD on 8 November 2019 based on the documents (including an Environmental Review Report (ERR)) for the application of Variation of Environmental Permit.
- 2.1.2 The construction phase and EM&A programme of the Project commenced on 25 November 2021.

2.2 Site Description

2.2.1 The scope of works of the Project, which is a Designated Project under the EIA Ordinance (EIAO), will construct joint user building comprising the government office, store, laboratory, transport pool and vehicle depot facilities in Chai Wan District. The Site is bounded by NWFB Depot to the north, Sheung On Street to the east, Sheung Mau Street to the south and Sheung Tat Street to the west. A layout plan of the Project is provided in **Figure 1-1**.



Figure 1-1 A layout plan of the Project

2.3 Construction Activities

2.3.1 A summary of the major construction activities undertaken in this reporting period is shown in **Table 2.1** and the construction programme is illustrated in **Appendix 1**.

Table 2-1 Major Construction Activities Undertaken in the Reporting Period

Construction Activities Undertaken				
-	Piling tests			
-	Sheet piling work			
-	ELS works			
-	Pile cap & tie beam construction			
-	Fabrication of precast elements			

2.4 Project Organisation

2.4.1 The Project organization chart and contact details are shown in **Appendix 2**.

2.5 Status of Environmental Approval Document

2.5.1 A summary of the relevant valid permits, licences, and/or notifications on environmental protection for this Project since the granting of the EP is presented in **Table 2.2**.

Permit / Licenses / Notification	Reference	Validity Period	Remark
Environmental Permit (EP)	EP-505/2015/A	Throughout the Contract	Permit granted on 8 November 2019
Notification of Construction Works as required under Air Pollution Control (Construction Dust) Regulation	469716	Throughout the Contract	Approved on 21 July 2021
Registration of Waste Producer under Waste Disposal Ordinance	7041313	Throughout the Contract	Approved on 13 August 2021
Registration as Chemical Waste Producer	5213-163-Y2782-01	Throughout the Contract	Approved on 24 August 2021
Construction Noise Permit	GW-RS0672-22	13 April 2023	Approved on 16 August 2022
Effluent Discharge License under Water Pollution Control Ordinance	WT00038924-2021	30 September 2026	Approved on 9 December 2021

Table 2-2Summary of the relevant valid permits, license, and/or notification on
environmental protection

3 Environmental Monitoring Requirements

3.1 Nosie Monitoring Locations

3.1.1 The noise monitoring locations in approved EM&A Manual are summarised in **Table 3-1** and shown in **Figure 3-1**.

Noise Monitoring ID	Proposed Noise Monitoring Location	Remark
NM1	Ground Floor at Heng Fa Chuen Block 50	-
NM2b	Pedestrian road at Shing Tai Road	*
NM3	Rooftop of THEi Campus	-

Table 3-1 Noise Monitoring Station in Approved EM&A Manual

Remark: * - Hong Kong Institute of Vocational Education (Chai Wan) - Academic Block (NM2) is the noise monitoring stations for the construction phase EM&A programme as identified in the approved EM&A Manual for the Project. The access to NM2 and Knight Court (as a VTC Senior Quarters and NSR3 in approved EIA) were denied. A search for alternative noise monitoring locations along Shing Tai Road and Sheung Mau Street was carried out during the site visit on 4 October 2021.

Lamp Post no. 47447 at Sheung Mau Street (NM2a), which is located between project site and original noise monitoring location, Hong Kong Institute of Vocational Education (Chai Wan) - Academic Block (NM2), is found suitable and available to be an alternative noise monitoring location for NM2. Also, NM2a, which has a direct line of sight towards project site (where construction works will be carried out and likely to have noise impacts), is located closer to project site than NM2 and thus considered as a representative noise monitoring location. Monitoring position at NM2a is proposed at 2m above ground due to security concerns and minimize the road traffic noise contribution. Noise measurement at NM2a will be considered as free-field and a correction of +3dB(A) would be made to the noise monitoring results. The alternative location of NM2a, were therefore proposed and agreed by the Independent Environmental Checker (IEC).

Due to the adjustment of the location of NM2 to NM2a, the measured noise levels at NM2a would represent the noise levels at NM2.

To respond to the comment raised by EPD on monitoring location of NM2a by email dated 23 May 2022 and site meeting on 6 June 2022, the monitoring location of NM2a was adjusted to the pedestrian road at Shing Tai Road (NM2b) which is located between project site and original noise monitoring location, Hong Kong Institute of Vocational Education (Chai Wan) - Academic Block (NM2). Compared with NM2a, NM2b is far away from the traffic light and therefore should be able to minimise the traffic noise issue. This arrangement was started from 28 June 2022 and has been agreed by the Independent Environmental Checker (IEC). Noise measurement at NM2b will be considered as free-field and a correction of +3dB(A) would be made to the noise monitoring results.

Due to the adjustment of the location of NM2a to NM2b, the measured noise level at NM2b would represent the noise levels at NM2.



Figure 3-1 Location of Noise Monitoring Stations (NM1, NM2b and NM3)

3.2 Monitoring Parameters, Frequency and Duration

- 3.2.1 Weekly construction noise monitoring was conducted in accordance with the requirements stipulated in the EM&A Manual. The monitoring programme for this reporting period is shown in **Appendix 3.**
- 3.2.2 **Table 3-2** summarizes the monitoring parameters, frequency and duration of the impact noise monitoring.

Time Period	Parameters
Daytime on normal weekdays (0700-1900 hrs)	Leq(30 mins), L10(5 mins) and L90(5 mins)
Evening time on all days (1900-2300 hrs) and Holidays (including Sundays) during daytime and evening (0700-2300 hrs)	$L_{eq(5\ mins)}$, L10(5 mins) and L90(5 mins)
All days during the night-time (2300-0700 hrs of the next day)	$L_{eq(5\mbox{ mins})}$ $L_{10(5\mbox{ mins})}$ and $L_{90(5\mbox{ mins})}$

 Table 3-2
 Noise Monitoring Parameters, Period and Frequency

3.3 Monitoring Equipment

- 3.3.1 Noise measurements were conducted in accordance with the calibration and measurement procedures as stated in Annex General Calibration and Measurement Procedures of Technical Memorandum on Noise from Construction Work other than Percussive Piling (GW-TM) issued under the Noise Control Ordinance (NCO) (Cap.400).
- 3.3.2 The sound level meter and calibrator used for the noise measurement, as listed in Table
 3-3, complies with IEC 651: 1979 and 804:1985 (Type 1) specification. The calibration certificates of the sound level meter and calibrator are given in Appendix 4.

Monitoring Station	Monitoring Equipment (Sound Level Meter and Calibrator)
NM1	Sound Level Meter: Rion NL 52(s/n:00131627)
NM2b	Calibrator: Larson Davis Cal 200(s/n: 11333)
NM3	

 Table 3-3
 Noise Monitoring Equipment

- 3.3.3 Immediately prior to and following the noise measurements, the accuracy of the measurement equipment was checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements were accepted as the calibration level from before and after the noise measurement agree to within 1.0 d(B).
- 3.3.4 A portable wind speed meter shall be used for measuring wind speeds in m/s.

3.4 Event / Action Plan

Monitoring	Action Level	Limit Level		
Station		Noise Criteria, Leq _(30mins) , dB(A)	Remark	
NM1		75		
NM2b	When one documented complaint is received	70 65 (during examination)	- Applicable during 0700 – 1900 hours,	
NM3		70 65 (during examination)	Monday to Saturday	

Table 3-4 Action and Limit Levels for Construction Noise Monitoring

3.4.1 Should non-compliance of the noise criteria occur, the Event and Action Plan as presented in **Appendix 5** should be followed.

3.5 Mitigation Measures

3.5.1 The mitigation measures in accordance with the EP, EIA and EM&A Manual and their implementation status are presented in **Appendix 6**.

4 Implementation Status on Environmental Mitigation Measures

- 4.1.1 The Contractor has generally implemented environmental mitigation measures and requirements as stated in the EIA Report, the EP and EM&A Manual and the contract documents. The implementation status during the reporting period is summarized in **Appendix 6**.
- 4.1.2 The implemented environmental mitigation measures are listed as follow:
 - I. The timing and sequence of construction activities were carefully arranged.
 - II. QPME were used to reduce the excessive noise impact.
 - III. Good site practices were implemented to reduce noise impact of the site activities. The practices are listed as below:
 - Use only well-maintained and regularly-serviced plant during the works;
 - Turn off or throttle down the plant in intermittent use to a minimum;
 - Orient the plant known to emit noise strongly in one direction to face away from the NSRs;
 - Use silencers, mufflers and enclosures for plant where possible and maintain properly throughout the works;
 - Site fixed plant as far away from NSRs as possible; and
 - Use stockpiles of excavated materials and other structures such as site buildings effectively to screen noise from the works.
 - IV. Movable noise barrier/acoustic sheet barriers as noise shield were adopted as far as practicable following the Construction Noise Management Plan (CNMP).

5 Monitoring Results

5.1 Noise

5.1.1 A total of 4 sets of 30-minute construction noise measurements were carried out at the monitoring stations (NM1, NM2b and NM3) during normal weekdays of the reporting period. The monitoring results together with graphical presentations are presented in Appendix 7. The local impacts observed near the monitoring stations were summarized below:

• NM1:	Railway noise,	road traffic noise	and Yau Lee Site.

- NM2b: Road traffic noise and Yau Lee Site.
- NM3: Cargo Handling Area and Yau Lee Site.
- 5.1.2 No exceedance of Action and Limit Levels of construction noise was recorded during the reporting period. Therefore, there was no record of Notification of Environmental Quality Limits Exceedance in the **Appendix 11**.
- 5.1.3 Baseline corrections were made when the measured noise level is higher than both the noise limit level and the baseline level, and it is made by deducting the measured noise levels with their corresponding baseline noise level. The corrected noise level (ie. Construction Noise Level) would solely represent the noise levels of Construction works.
- 5.1.4 The methodology is shown as below:
 - When Measured noise level (Leq 30mins) > Baseline noise level (Leq30), Construction noise level is calculated
 - Construction noise level = Measured noise level (Leq 30 mins) Baseline noise level
 - If Measured noise level (Leq 30mins) < Baseline noise level, Corrected noise level = Measured noise level

5.2 Waste Management

5.2.1 Wastes generated from this Project include inert construction and demolition (C&D) materials and non-inert C&D materials. Non-inert C&D materials were made up of general refuse, steels and paper/cardboard packaging materials. Steel materials generated from the Project were 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 period are summarised in **Appendix 8**. The non-inert C&D materials and general refuse generated from the Project were disposed of at the NENT Landfill. A total of 45.42 tonnes of general refuse was generated during the reporting period. The inert C&D materials generated from the Project were disposed of at the Chai Wan Public Fill Barging Point (CW-PFBP) or Fill Bank at Tseung Kwan O Area 137(TKO137FB). A total of 1493.86 tonnes of inert waste was generated during the reporting period.

6 Environmental Site Inspection

- 6.1.1 Joint environmental site inspection was conducted in the reporting period on 03, 09, 16 and 23 February 2023. The joint environmental site inspection was carried out by the representatives of the Engineer's Representative (ER), the Contractor, IEC and the ET on 03 February 2023. The joint environmental site inspection record is shown in **Appendix 9**. There was no noncompliance recorded during the site inspections.
- 6.1.2 Major findings and recommendations are summarized as follows:

03 February 2023

- The oil drums were observed without drip trays. Drip trays shall be provided to the oil drums.
- Movable noise barrier was not provided to the sheet piling machine. The Contractor has been reminded to provided noise barriers for the sheet piling machines as required in the CNMP.

09 February 2023

- Part of the hoarding was removed on the site. At least 2.4m hoarding shall be provided.
- General waste and construction waste were not stored separately. General waste generated on-site shall be stored in enclosed bins or compaction units separately from the construction waste.

16 February 2023

- The work area was dry and fugitive dust was observed. The Contractor has been recommended to increase the frequency of waste disposal to prevent dust dispersion.
- The Contractor was reminded to fully cover the stockpile of dusty material using impervious sheets after construction work. The Contractor has reminded to fully cover the stockpile of dusty material after construction work.

23 February 2023

- Oil stains were observed near the GI machine. Oil stain shall be cleared and disposed of as chemical waste.
- The Contractor was reminded to ensure wastewater facility functioning properly. The wastewater treatment facility shall operate properly for the upcoming wet season.
- The Contractor was reminded to cover holes at the bottom of barriers to prevent leakage of run-off. The Contractor has been recommended to place sandbags at the bottom of the barriers to prevent any leakage outside the site boundary.

7 Environmental Non-conformance

7.1 Summary of Monitoring Exceedance

7.2 No exceedance of the Action and Limit Levels of construction noise was recorded at monitoring station during the reporting period.

7.3 Summary of Environmental Non-compliance

7.3.1 No non-compliance event was recorded during the reporting period.

7.4 Summary of Environmental Complaint

7.4.1 No complaint was received during the reporting period.

7.5 Summary of Environmental Summons and Successful Prosecution

7.5.1 No summons was received during the reporting period.

8 Future Key Issues

8.1 Key Issues for the Coming Month

- 8.1.1 Works to be undertaken for the coming monitoring periods are summarized below:
 - Piling tests
 - Sheet piling work
 - ELS works
 - Pile cap & tie beam construction
 - Fabrication of precast elements
- 8.1.2 Potential environmental impacts arising from the above construction activities are mainly associated with dust, construction noise, site runoff and waste management.

8.2 Monitoring Schedule for the Next Month

8.2.1 The tentative schedule of noise monitoring for the next reporting period is presented in **Appendix 10**.

8.3 Construction Programme for the Next Month

8.3.1 The most updated construction programme for the Project is presented in **Appendix 1**.

9 Review of EM&A Data and EIA Predictions

9.1 Noise

9.1.1 The EIA predicted the construction noise levels during the day-time period. In this reporting period, hoarding erection and piling works were conducted. Hence, a comparison between the measured noise results in this reporting month and predicted EIA noise levels was made. (**Table 9-1**).

Monitoring Station	EIA Predicted Construction	Baseline Noise Levels, dB(A)	Noise Monitoring Results, dB(A)			
	Noise Levels, dB(A)		Leq _(30mins) , Average	Range		
NM1	62	65.1	64.7	62-67		
NM2b	69	73.4	71.7*	69-73*		
NM3	66	69.8	68.3	68-69		

Table 9-1 Comparison between the measured noise results and EIA predictions

Note: *The measured noise levels exceeded the limit noise level and they were lower than the baseline level for NM2b. Therefore, they were not considered as an exceedance of limit level. As such the EAP was not triggered.

9.1.2 The comparison shows that the average of 30-minute construction noise levels recorded at all monitoring stations during the reporting period were higher than the EIA predicted construction noise levels but lower than the baseline noise levels. Recommended mitigation measures in **Section 5.8** of EIA will be implemented throughout the construction period.

9.2 Waste Management

9.2.1 The estimated amount of waste generated in this Project and the accumulated quantities of waste generated up to this reporting month are presented in **Appendix 8**. No major construction works have commenced in this reporting month. The amount of construction waste generated are minimal. Recommended mitigation measures in **Section 8.5** of the EIA will be implemented during the construction stage.

9.3 Conclusion of Review

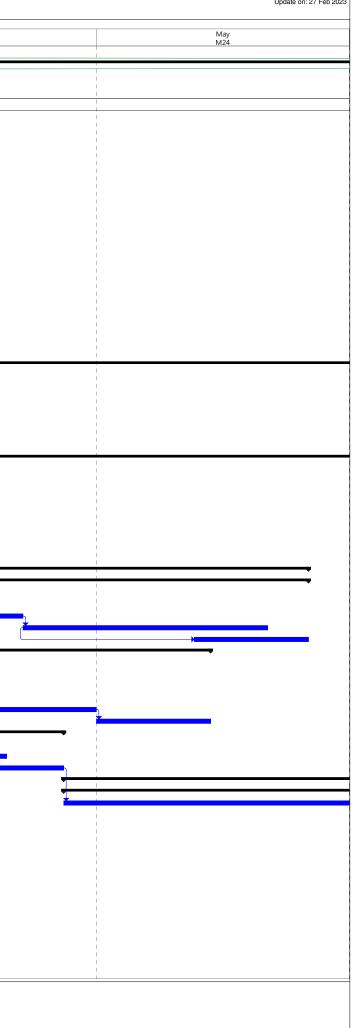
9.3.1 The EIA predictions against the monitoring results since the commencement of construction works have been reviewed. The EIA concluded that the Project would not cause adverse impacts to the environment, and the monitoring results have also indicated the same so far. Mitigation measures recommended in the EP, EIA, EM&A Manual and the contract documents will continue to be implemented throughout the construction phase of the Project.

10 Conclusion

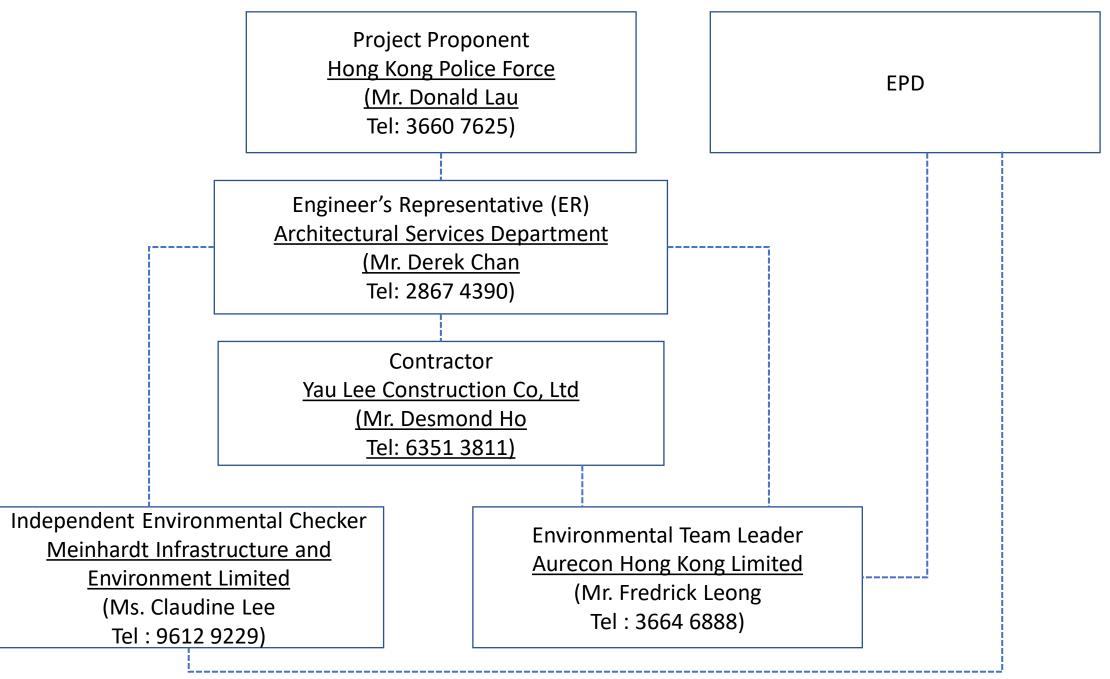
- 10.1.1 For construction noise, no Action and Limit Level exceedance was recorded at the monitoring stations during the reporting period.
- 10.1.2 Environmental site inspection was carried out on 03, 09, 16 and 23 February 2023. Recommendations on remedial actions were given to the Contractors for the deficiencies identified during the site inspections.
- 10.1.3 EPD conducted general site inspection on 23 February 2023. No special findings were identified during the inspection.
- 10.1.4 No notification of summons and prosecution was received during the reporting period.
- 10.1.5 The ET will keep track on the EM&A programme to ensure compliance of environmental requirements and the proper implementation of all necessary mitigation measures.

Appendix 1

T	act No. SS H504 (Programme No. 184GK) Task Name	Duration	Start	Finish Pre	decessoS	uccessor	Task %
- '		Suracion	Start	Pite		JUCE 2201	Calendar Complete
1 0	Contract Date	0 days	Thu 24/6/21	Thu 24/6/21			Calendar day 100%
2 C		1361 days	Mon 19/7/21	Wed 9/4/25			Calendar day 0%
3	Starting Date	0 days	Mon 19/7/21			4SS,5SS+	Calendar day 100%
4	Access Date	0 days	Mon 19/7/21				Calendar day 100%
5	Original Contract Period (945 days after starting date)	0 days	Mon 19/2/24				Calendar day 0%
6 7	Revised Contract Period (995 days after starting date) Defects Date	0 days 0 days	Tue 9/4/24 Wed 9/4/25			55+365 (Calendar day 0% Calendar day 0%
	Major Submission Other than AIP/DDA	416 days	Tue 5/10/21		+ 505 Uz		Calendar day 100%
9	Submission for Environmental Permit to EPD		Wed 27/10/21				Calendar day 100%
16	Traffic Impact Assessment (TIA)	90 days	Tue 5/10/21				Calendar day 100%
20	Construction Traffic Impact Assessment (CTIA)	90 days	Tue 5/10/21	Sun 2/1/22			Calendar day 100%
24	Submission to HKE for Transformer Room Layout	129 days	Wed 20/10/21	Fri 25/2/22			Calendar day 100%
29	Submission of GBP to Government Departments	142 days	Tue 16/11/21	Wed 6/4/22			Calendar day 100%
30	Submission to DLO, FSD, PlanD, HyD and TD (done on 21/10/21)	1 day	Tue 16/11/21	Tue 16/11/21			Calendar day 100%
31	Comment from DLO, FSD, PlanD, HyD and TD (done to 8/12/2021	30 days	Wed 17/11/21				Calendar day 100%
32	Resubmission DLO, FSD, PlanD, HyD and TD (done on 7/3/22)	1 day	Mon 7/3/22		3	33	Calendar day 100%
33	Approval/Comment from DLO, FSD, PlanD, HyD and TD (done on 21/12/22)	30 days	Tue 8/3/22	Wed 6/4/22 32			Calendar day 100%
34	BEAM Plus Project Assessment Process	340 days	Mon 20/12/21	Thu 24/11/22			Calendar day 100%
35	BEAM Registration	3 days	Mon 20/12/21	Wed 22/12/21			Calendar day 100%
36	Acknowledge letter from HKGBC (done on 21/12/2021)	0 days	Wed 5/1/22				Calendar day 100%
37	1st PA submission (done on 7/2/2022)	1 day	Mon 31/1/22			88	Calendar day 100%
38	Receive BSL 1st comment (done on 2/3/2022)	30 days	Tue 1/2/22				Calendar day 100%
39	2nd PA submission (done on 7/6/2022)	1 day	Tue 7/6/22				Calendar day 100%
40	Receive BSL 2nd comment (done on 21/7/2022)	60 days	Wed 8/6/22				Calendar day 100%
41	Post-TRC submission (done on 27/10/2022)	1 day	Thu 27/10/22			1215+270	Calendar day 100%
42 43 C	PA result released by BSL (done on 24/11/2022) Construction	1 day 672 days	Thu 24/11/22 Mon 23/8/21		3+27 da		Calendar day 100% Calendar day 79%
45 C 44	Site Mobilization and Preparation	540 days	Wed 15/9/21				Calendar day 98%
45	Set up monitoring checkpoints (done on 29/10/21)	45 days	Wed 15/9/21 Wed 15/9/21				Calendar day 100%
46	Ground Investigation Works (done on 23/10/21)	30 days	Wed 15/9/21				Calendar day 100%
47	Set up revised hoarding	252 days	Thu 30/6/22				Calendar day 97%
48	Phase 1 (Sheung Tat St. and Sheung Mau St.) (started on 4/7/20		Thu 30/6/22		4	9,56SF-1	Calendar day 100%
49	Phase 2 (Sheung On St. and gantries) (started 9/12/2022)	90 days	Fri 9/12/22				Calendar day 95%
50	Tree Removal and Preservation	296 days	Mon 23/8/21				Calendar day 100%
57	Structural Works	601 days	Tue 2/11/21				Calendar day 70%
58 59	Piling Works Zone 1 & 2	487 days 487 days	Tue 2/11/21 Tue 2/11/21	Fri 3/3/23 Fri 3/3/23			Calendar day 98% Calendar day 98%
60	Pre-drilling (Zone 1 & 2) (started on 2/11/2021, done on	143 days	Tue 2/11/21 Tue 2/11/21		6	255+41	Calendar day 98% Calendar day 100%
~	24/3/2022)	1-3 udys	100 2/11/21	1110 27/ 3/22		lays	calcinual day 100 /0
61	Re-predrill due to unforeseen ground conditions (21 nos.)	68 days	Mon 7/3/22	Fri 13/5/22			Calendar day 100%
	(started on 7/3/2022, done on 13/5/2022)						
62	Piling works (Zone 1 & 2) (started on 13/12/2021, done on 17/1/2023)	401 days	Mon 13/12/21	Tue 17/1/23 60			Calendar day 100%
<u></u>	17/1/2023) Differentiated and 1 (11 (2022))	102	T	da	А	lays,11SF	
63	Piling test (started on 1/11/2022)	123 days		Fri 3/3/23 62	S-81 da		Calendar day 88%
64	Substructure Works		Thu 24/11/22				Calendar day 34%
65	Zone A (near Sheung On Street)	143 days					Calendar day 33%
66	Sheet pile installation (started on 4/1/2023)	60 days	Wed 4/1/23		C . FO	000	Calendar day 90%
67	Pile cap construction (pre-requisite for ELSW by open cut)	30 days	Thu 9/3/23				Calendar day 0%
68 69	Installation of waling and strut (ELSW) Pile cap construction (afte pumping test)	30 days 30 days	Thu 23/3/23 Sat 22/4/23				Calendar day 0% Calendar day 0%
69 70	Backfilling for tie beam construction and dismantle ELS strut		Sat 22/4/23 Sat 13/5/23			033+21(Calendar day 0%
70 71	Zone B (near Sheung Tat Street)	14 days 91 days	Sat 13/5/23 Mon 13/2/23		J±⊂T (ls		Calendar day 0%
72	Sheet pile installation (started on 12/2/2023)	21 days	Mon 13/2/23 Mon 13/2/23		S+26 da7	73	Calendar day 50%
73	Pumping test	14 days	Mon 6/3/23			74	Calendar day 0%
74	Pile cap construction (pre-requisite for ELSW by open cut)	14 days	Mon 20/3/23				Calendar day 0%
75	Installation of waling and strut (ELSW)	14 days	Mon 27/3/23				Calendar day 0%
76	Pile cap construction (afte pumping test)	21 days	Mon 10/4/23			7	Calendar day 0%
77	Backfilling for tie beam construction and dismantle ELS strut	14 days	Mon 1/5/23	Sun 14/5/23 76			Calendar day 0%
78	Zone C (near NWBF)	-	Thu 24/11/22	Wed 26/4/23			Calendar day 47%
79	Sheet pile installation (started on 24/11/2022)	100 days	Thu 24/11/22				Calendar day 90%
80	Excavation	45 days	Mon 6/3/23				Calendar day 0%
81	Pile cap construction	45 days	Mon 13/3/23		S+7 day8	34	Calendar day 0%
82	Superstructure Works	60 days	Thu 27/4/23				Calendar day 0%
83 84	Zone A-E (G.L.1-5/A-G)	60 days 60 days	Thu 27/4/23 Thu 27/4/23				Calendar day 0% Calendar day 0%
84 85	Off-Site Mock Up	223 days		Mon 14/11/22			Calendar day 0%
86	Setting out of mock up	7 days	Wed 6/4/22 Wed 6/4/22		8	37	Calendar day 100%
87	Erection of steel frame of mock up	25 days	Wed 6/4/22 Wed 13/4/22			38	Calendar day 100%
88	Erection of timber panel	14 days	Sun 8/5/22				Calendar day 100%
89	Interior finishing work (started on 27/7/2022, done on 31/8/2022		Wed 27/7/22				Calendar day 100%
90	Project Manager and Users' inspection of off-site mock up (done		Thu 15/9/22	Thu 29/9/22 89	S+14 9	91SS+1	Calendar day 100%
	on 15/9/2022 and 19/9/2022)			da	s d	lay	-
91	Fine-Tune of off-site mock up (started on 20/9/2022)	14 days	Fri 16/9/22			92FS+45 0	Calendar day 100%
92	PQDVC Workstage 3b Presentation			Mon 14/11/22 91	S+45 da		Calendar day 100%
93	MiC Mock Up		Mon 10/10/22			-	Calendar day 100%
94	Construction of concrete frame of mock up modules (started on 10/10/2022)	30 days	Mon 10/10/22	Tue 8/11/22	9	95	Calendar day 100%
95	Internal finishing work (completed on 29/11/2022)	22 days	Wed 9/11/22	Wed 30/11/22 94	9	96FF	Calendar day 100%
96	E&M installation (completed on 29/11/2022)	10 days	Mon 21/11/22	Wed 30/11/22 95	F 9	97	Calendar day 100%
97	Inspection by ArchSD (completed on 5/12/2022)	1 day	ivion 5/12/22	Mon 5/12/22 96			Calendar day 100%



Appendix 2



Key: ----- Line of Communication

Appendix 3

2023	February								
MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY			
30	31	01	02	03	04	05			
06	07 Noise Monitoring (NM1, NM2b and NM3)	08	09	10	11	12			
13	14 Noise Monitoring (NM1, NM2b and NM3)	15	16	17	18	19			
20	21 Noise Monitoring (NM1, NM2b and NM3)	22	23	24	25	26			
27 Noise Monitoring (NM1, NM2b and NM3)	28	01	02	03	04	05			
06	07	Notes: The schedule is s etc.).	ubject to change du	ue to unforeseeable	e circumstances (e.g. a	adverse weather,			

Appendix 4



Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.: C223338 證書編號

ITEM TESTED /	送檢項目	(Job No. / 序引編號:IC22-1069)	Date of Re	ceipt / 收件日期: 2 June 2022
Description / 儀器	2	Precision Acoustic Calibrator		
Manufacturer / 製法		LARSON DAVIS		
Model No. / 型號	:	CAL200		
Serial No. / 編號	:	11333	¢	
Supplied By / 委訊	诸:	Envirotech Services Co.		
		Room 712, 7/F, My Loft, 9 Hoi Win	g Road, Tuen Mun,	
		New Territories, Hong Kong		
TEST CONDITI		学体化		
			Relative Humidit	y/相對濕度 : (50±25)%
Temperature / 溫乃 Line Voltage / 電風		(3 ± 2) C	Kelative Humun	$\mathbf{y} = (10 + 20)\mathbf{x}$
	¥ ·			
TEST SPECIFIC	ATIONS	/ 測試規範		
Calibration check				
		7 2011		
DATE OF TEST	/ 測試日其	期 : 18 June 2022		
TEST RESULTS	/ 測試結:	果		
The results apply 1	to the part	icular unit-under-test only.		
The results do not	exceed m	anufacturer's specification.		
The results are det	ailed in th	e subsequent page(s).		
- The Governmen	t of The H ogies / Ke	calibration are traceable to National S Iong Kong Special Administrative Reg cysight Technologies ter, USA	tandards via : ion Standard & Calibr	ration Laboratory
Tested By 測試	: _	H T Wong Assistant Engineer		
Certified By	:	A	Date of Issue :	20 June 2022
核證	-	K Ç Lee	簽發日期	
/		Engineer		
-			C	· · · · · · · · · · · · · · · · · · ·
		ceable to the National Standards as specified in this cert	ificate. This certificate shall not	t be reproduced except in full, without the p
ten approval of this laborate	ory.	eeable to the National Standards as specified in this cert 國際標準。局部複印本證書需先獲本實驗所書面損		be reproduced except in full, without the p

Sun Creation Engineering Limited – Calibration & Testing Laboratory c/o 4/F, 1 Hing On Lane, Tuen Mun, New Territories, Hong Kong 輝創工程有限公司 - 校正及檢測實驗所 c/o 香港新界屯門與安里一號四樓 Tel/電話: (852) 2927 2606 Fax/傳真: (852) 2744 8986 E-mail/電郵: callab@suncreation.com Website/網址: www.suncreation.com



Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C223338 證書編號

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

Equipment ID	Description	Certificate No.
CL130	Universal Counter	C213954
CL281	Multifunction Acoustic Calibrator	AV210017
TST150A	Measuring Amplifier	C221705

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

UUT	Measured Value	Mfr's Spec.	Uncertainty of Measured Value
Nominal Value	(dB)	(dB)	(dB)
94 dB, 1 kHz	93.8	± 0.2	± 0.2
114 dB, 1 kHz	113.8		

5.2 Frequency Accuracy

UUT Nominal Value	Measured Value	Mfr's	Uncertainty of Measured Value
(kHz)	(kHz)	Spec.	(Hz)
1	1.000	$1 \text{ kHz} \pm 1 \%$	± 1

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

Note :

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

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

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

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Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C215720 證書編號

1. The unit-under-test (UUT) was allowed to stabilize in the laboratory for over 12 hours, and switched on to warm up for over 10 minutes before the commencement of the test.

2. Self-calibration using the internal standard (After Adjustment) was performed before the test 6.1.1.2 to 6.3.2.

- 3. The results presented are the mean of 3 measurements at each calibration point.
- 4. Test equipment :

Equipment ID	Description	Certificate No.
CL280	40 MHz Arbitrary Waveform Generator	C210084
CL281	Multifunction Acoustic Calibrator	AV210017

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

	UUT	Setting		Applie	d Value	UUT	IEC 61672
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	Reading (dB)	Class 1 Spec. (dB)
30 - 130	L _A	A	Fast	94.00	1	* 96.7	± 1.1

6.1.1.2 After Adjustment

UUT Setting				Applie	d Value	UUT	IEC 61672
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	Reading (dB)	Class 1 Spec. (dB)
30 - 130	L _A	A	Fast	94.00	1	94.0	± 1.1

6.1.2 Linearity

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

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

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

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Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C215720 證書編號

6.2

ι

Time Weighting

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

6.3 Frequency Weighting

6.3.1 A-Weighting

UUT Setting				Applied Value		UUT	IEC 61672
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq.	Reading (dB)	Class 1 Spec. (dB)
30 - 130	L _A	A	Fast	94.00	63 Hz	67.7	-26.2 ± 1.5
					125 Hz	77.8	-16.1 ± 1.5
					250 Hz	85.4	-8.6 ± 1.4
				14.61	500 Hz	90.8	-3.2 ± 1.4
					1 kHz	94.0	Ref.
	ويقرر كاري الا	· /* -		6	2 kHz	95.3	$+1.2 \pm 1.6$
		-			4 kHz	95.1	$+1.0 \pm 1.6$
					8 kHz	93.0	-1.1 (+2.1 ; -3.1)
					16 kHz	86.1	-6.6 (+3.5 ; -17.0)

6.3.2 C-Weighting

UUT Setting				Applied Value		UUT	IEC 61672
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq.	Reading (dB)	Class 1 Spec.
30 - 130	L _C	C	Fast	94.00	63 Hz	93.2	-0.8 ± 1.5
					125 Hz	93.8	-0.2 ± 1.5
					250 Hz	94.0	0.0 ± 1.4
٩				2	500 Hz	94.1	0.0 ± 1.4
					1 kHz	94.0	Ref.
					2 kHz	93.9	-0.2 ± 1.6
					4 kHz	93.3	-0.8 ± 1.6
					8 kHz	91.1	-3.0 (+2.1 ; -3.1)
					16 kHz	84.2	-8.5 (+3.5 ; -17.0

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

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



Sun Creation Engineering Limited **Calibration & Testing Laboratory**

Certificate of Calibration 校正證書

Certificate No. : C215720 證書編號

Remarks : - UUT Microphone Model No. : UC-59 & S/N : 13748

- Mfr's Spec. : IEC 61672 Class 1

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

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

Note :

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

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

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Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No. : C223340 證書編號

ITEM TESTED / 送檢項目 Description / 儀器名稱 : Manufacturer / 製造商 : Model No. / 型號 : Serial No. / 編號 : Supplied By / 委託者 :	(Job No. / 序引編號: IC22-1069) Sound Level Meter Rion NL-52 00131627 Envirotech Services Co. Room 712, 7/F, My Loft, 9 Hoi Wing New Territories, Hong Kong	Date of Receipt / 收件日期:2 June 2022 Road, Tuen Mun,
TEST CONDITIONS / 測記 Temperature / 溫度 : (23 Line Voltage / 電壓 :	條件 ±2)°C	Relative Humidity / 相對濕度 : (50 ± 25)%
TEST SPECIFICATIONS / Calibration check	測試規範	
DATE OF TEST / 測試日期	: 18 June 2022	
TEST RESULTS / 測試結果 The results apply to the partic The results do not exceed ma The results are detailed in the The test equipment used for co - The Government of The Ho - Agilent Technologies / Key - Fluke Everett Service Center	ular unit-under-test only. nufacturer's specification. subsequent page(s). alibration are traceable to National Star ong Kong Special Administrative Region sight Technologies	ndards via : n Standard & Calibration Laboratory
Tested By : 測試	H T Wong Assistant Engineer	
Certified By : 核證	10	ate of Issue : 20 June 2022 發發日期

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

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2



Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.: C223340 證書編號

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

Equipment ID	Description	Certificate No.
CL280	40 MHz Arbitrary Waveform Generator	C220381
CL281	Multifunction Acoustic Calibrator	AV210017

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

UUT Setting				Applied Value		UUT	IEC 61672
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq. (kHz)	Reading (dB)	Class 1 Spec. (dB)
30 - 130	L _A	A	Fast	94.00	1	94.0	± 1.1

6.1.2 Linearity

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

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

6.2 Time Weighting

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

Sun Creation Engineering Limited - Calibration & Testing Laboratory

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

輝創工程有限公司 - 校正及檢測實驗所

c/o 香港新界屯門興安里一號四樓 Tel/電話: (852) 2927 2606 Fax/傳

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

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Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.: C223340 證書編號

6.3 Frequency Weighting

6.3.1 A-Weighting

	UUT	Setting		Appl	ied Value	UUT	IEC 61672
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq.	Reading (dB)	Class 1 Spec. (dB)
30 - 130	L _A	A	Fast	94.00	63 Hz	67.7	-26.2 ± 1.5
					125 Hz	77.8	-16.1 ± 1.5
					250 Hz	85.3	-8.6 ± 1.4
					500 Hz	90.7	-3.2 ± 1.4
					1 kHz	94.0	Ref.
					2 kHz	95.2	$+1.2 \pm 1.6$
					4 kHz	95.0	$+1.0 \pm 1.6$
					8 kHz	92.9	-1.1 (+2.1 ; -3.1)
					16 kHz	86.0	-6.6 (+3.5 ; -17.0)

6.3.2 C-Weighting

		Setting		Applied Value		UUT	IEC 61672
Range (dB)	Function	Frequency Weighting	Time Weighting	Level (dB)	Freq.	Reading (dB)	Class 1 Spec. (dB)
30 - 130	L _C	C	Fast	94.00	63 Hz	93.1	-0.8 ± 1.5
	Ū				125 Hz	93.8	-0.2 ± 1.5
					250 Hz	94.0	0.0 ± 1.4
					500 Hz	94.0	0.0 ± 1.4
					1 kHz	94.0	Ref.
					2 kHz	93.8	$\textbf{-0.2}\pm1.6$
					4 kHz	93.2	$\textbf{-0.8} \pm \textbf{1.6}$
					8 kHz	91.0	-3.0 (+2.1 ; -3.1)
					16 kHz	84.1	-8.5 (+3.5 ; -17.0)

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

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2



Sun Creation Engineering Limited

Calibration & Testing Laboratory

Certificate of Calibration 校正證書

Certificate No.: C223340 證書編號

Remarks : - UUT Microphone Model No. : UC-59 & S/N : 10446

- Mfr's Spec. : IEC 61672 Class 1

- Uncertainties of Applied Value :	94 dB :	63 Hz - 125 Hz	: ± 0.35 dB
en la vien y men u da bandanda da transmissión de la transmissión kan en analysis de la serie en anoma de la s		250 Hz - 500 Hz	$\pm 0.30 \text{ dB}$
		1 kHz	$\pm 0.20 \text{ dB}$
		2 kHz - 4 kHz	$\pm 0.35 \text{ dB}$
		8 kHz	: ± 0.45 dB
		16 kHz	: ± 0.70 dB
	104 dB :	1 kHz	: ± 0.10 dB (Ref. 94 dB)
	114 dB :	1 kHz	: ± 0.10 dB (Ref. 94 dB)

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

Note :

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

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

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Appendix 5

Event and Action Plan for Construction Noise Monitoring

		Action		
	ET	IEC	ER	Contractor
Action Level	 Notify the ER, IEC and Contractor. Carry out investigation. Report the results of investigation to the ER, IEC and Contractor. Discuss with the IEC and Contractor and formulate remedial measures. Increase monitoring frequency to check mitigation effectiveness. 	 Review the investigation results submitted by the ET. Review the proposed remedial measures by the Contractor and advise the ER accordingly. Advise the ER on the effectiveness of the proposed remedial measures. 	 Confirm receipt of notification of failure in writing. Notify the Contractor. Require the Contractor to propose remedial measures. Ensure remedial measures are properly implemented. 	 Submit noise mitigation proposals to the IEC and ER. Implement noise mitigation proposals
Limit Level	 Notify the ER, IEC, Contractor and EPD. Identify sources. Repeat measurements to confirm findings. Increase monitoring frequency. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented. Inform the IEC, ER and Contractor the causes and action taken for the exceedances. Assess the effectiveness of the Contractor's remedial action and keep the IEC, EPD and ER informed of the results. If exceedance stops, cease additional monitoring. 	 Discuss amongst the ER, ET and Contractor on the potential remedial action. Review the Contractor's remedial action whenever necessary to assure their effectiveness and advise the ER accordingly. 	 notification of failure in writing. 2. Notify the Contractor. 3. Require the Contractor to propose remedial measures. 	 Take immediate action to avoid further exceedance Submit proposals for remedial action to the IEC and ER within 3 working days of notification. Implement the agreed proposals. Submit further proposals if problems still not under control. Stop the relevant portion of works as determined by the ER until the exceedance is abated.

Notes

(1) ET – Environmental Team, IEC – Independent Environmental Checker;

(2) Each step of action should be undertaken within 1 working day unless otherwise specified

Appendix 6

EIA Ref.	EM&A Manual Ref.	Environmental Protection Measures	Location/ Duration of Measures/ Timing of Completion of Measures	Implementation Agent	Status
Air Qua	lity				
Air Qua 4.8.2	lity 2.3.1	 Dust suppression measures stipulated in the Air Pollution Control (Construction Dust) Regulation and good site practices: Use of regular watering, to reduce dust emissions from exposed site surfaces and unpaved roads, particularly during dry weather; Use of frequent watering for particularly dusty construction 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 temporary stockpiles should be avoided or covered. Prevent placing dusty material storage plies 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; Imposition of speed controls for vehicles on unpaved site roads. 8 km/hr is the recommended limit; Routing of vehicles and positioning of construction plant should be at the maximum possible distance from ASRs; 	All work sites	Contractor and sub-contractor(s)	
		 Every stock of more than 20 bags of cement or dry pulverised fuel ash (PFA), if applicable, should be covered entirely by impervious sheeting or placed in an area sheltered on the top and the 3-sides; and Loading, unloading, transfer, handling or storage of large amount of cement or dry PFA should be carried out in a totally enclosed system or facility, and 			

EIA Ref.	EM&A Manual Ref.	Environmental Protection Measures	Location/ Duration of Measures/ Timing of Completion of Measures	Implementation Agent	Status
		equivalent air pollution control system.			
Noise			I	I	
5.8.3	3.4.1 – 3.4.2	 Selection and Optimisation of Construction Processes Carefully arrange the timing and sequencing of the various construction activities according to the actual site work situation; Limit the quantity of PME to be operated concurrently; In the case during school examination, more stringent construction noise criteria should be imposed, the potentially most disruptive construction activities should be avoided, and arranged to be conducted during school holidays as far as practicable; and Preparation of the Construction Noise Management Plan. 	All work sites	Contractor and sub-contractor(s)	√
5.8.4 – 5.8.6	3.4.1 – 3.4.2	Use of QPME and Quiet Working Methods In order to reduce the excessive noise impacts at the NSRs, quieter PME are recommended. Whilst quieter PME are listed, the Contractor may be able to obtain particular models of plant that are quieter than the PMEs given in GW-TM. The associated mitigation measures to the particular PME should be reviewed by the Contractor. The use of plants with SWLs less than those in the GW-TM are summarized in <i>Table 5.14</i> of the EIA report and the proposed mitigated plant inventory for the	All work sites	Contractor and sub-contractor(s)	√

EIA Ref.	EM&A Manual Ref.	Environmental Protection Measures	Location/ Duration of Measures/ Timing of Completion of Measures	Implementation Agent	Status
		construction works of the proposed Project is detailed in Appendix 5.8.			
5.8.7 – 5.8.8	3.4.1 – 3.4.2	Use of movable noise barriers	All work sites	Contractor and sub-contractor(s)	\checkmark
		The use of movable noise barrier for certain PME could further minimize the			
		construction noise impact. In general 5dB(A) reduction for mobile PME and			
		10dB(A) for stationary PME can be achieved provided that the direct line-of site			
		of the PME is blocked. The Contractor shall be responsible for the design of the			
		movable noise barrier with due consideration given to the size of the PME and the			
		requirement of intercepting the line of sight between the NSRs and the PME, as			
		well as ensuring that the barriers should have no openings and gaps.			
5.8.9	3.4.1 –	Good site practices	All work sites	Contractor and	\checkmark
	3.4.2	• Use of well-maintained and regularly-serviced plant during the works;		sub-contractor(s)	
		• Plant operating on intermittent basis should be turned off or throttled down to a minimum;			
		• Plant known to emit noise strongly in one direction should be orientated to face away from the NSRs;			
		• Silencers, mufflers and enclosures for plant should be used where possible and properly maintained throughout the works;			
		• Where possible fixed plants should be sited away from NSRs; and			
		• Stockpiles of excavated materials and other structures such as site buildings should be used effectively to screen noise from the works.			

EIA Ref.	EM&A Manual Ref.	Environmental Protection Measures	Location/ Duration of Measures/ Timing of Completion of Measures	Implementation Agent	Status
6.9.1	4.4.2	 In accordance with Professional Persons Environmental Consultative Committee Practice Notes (ProPECC PN) 1/94, potential water quality impact shall be minimised by the implementation of construction phase mitigation measures and general good site practice including the following: At the establishment of works site, perimeter cut-off drains to direct off-site water around the Site should be constructed with internal drainage works and erosion and sedimentation control facilities implemented. Channels (both temporary and permanent drainage pipes and culverts), earth bunds or sand bag barriers should be provided to divert the stormwater to silt removal facilities. Dikes or embankments for flood protection should be implemented around the boundaries of earthwork areas. Temporary ditches should be provided to facilitate the run-off discharge into an appropriate watercourse, through a silt/sediment trap. Silt/sediment traps should also be incorporated in the permanent drainage channels to enhance deposition rates; The design of efficient silt removal facilities should be based on the guidelines in Appendix A1 of ProPECC PN 1/94, which states that the retention time for silt/sand traps should be 5 minutes under maximum flow conditions. The sizes may vary depending upon the flow rate, but for a flow rate of 0.1m³/s, a sedimentation basin of 30m³ would be required and for a 	All work sites	Contractor and sub-contractor(s)	

EIA Ref.	EM&A Manual Ref.	Environmental Protection Measures	Location/ Duration of Measures/ Timing of Completion of Measures	Implementation Agent	Status
		flow rate of $0.5m^{3}$ /s the basin would be $150m^{3}$. The detailed design of the sand/silt raps should be undertaken by the Contractor prior to the commencement of construction.			\checkmark
		• The construction works should be programmed to minimise surface excavation works during rainy seasons (April to September), as possible. All exposed earth areas should be completed and vegetated as soon as possible after completion of the earthwork, or alternatively, within 14 days of the cessation of earthworks where practicable. If excavation of soil cannot be avoided during the rainy season, or at any time of year when rainstorms are likely, exposed slope surfaces should be covered by tarpaulin or other means;			
		• The overall slope of works sites should be kept to a minimum to reduce the erosive potential of surface water flows, and all trafficked areas and access roads should be protected by coarse stone ballast. An additional advantage accruing from the use of crushed stone is the positive traction gained during the prolonged periods of inclement weather and the reduction of surface sheet flows;			
		• All drainage facilities and erosion and sediment control structures should be regularly inspected and maintained to ensure their proper and efficient operation at all times particularly following rainstorms. Deposited silts and grits should be removed regularly and disposed of by spreading evenly over stable, vegetated areas;			
		• Measures should be taken to minimise the ingress of site drainage into excavations. If the excavation of trenches in wet season is inevitable, they should be dug and backfilled in short sections wherever practicable. The water pumped out from trenches or foundation excavations should be discharged into storm drains via silt removal facilities;			
		• All open stockpiles of construction materials (for example, aggregates, sand and fill materials) should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system;			
		• Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials			

EIA Ref.	EM&A Manual Ref.	Environmental Protection Measures	Location/ Duration of Measures/ Timing of Completion of Measures	Implementation Agent	Status
		 or debris being washed into the drainage system and storm run-off being directed into foul sewers; Precautions to be taken at any time of the year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forecasted and during or after rainstorms, are summarised in Appendix A2 of ProPECC PN 1/94. Particular attention should be paid to the control of silty surface run-off during storm events; All vehicles and plants should be cleaned before leaving the Project site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and sited wheel washing bay should be provided at the exit of Project site where practicable. Wash-water should have sand and silt settled out and removed at least on a weekly basis to ensure the continued efficiency of the process. The section of access road leading to, and exiting from, the wheel-washing bay to public roads should be paved with sufficient backfall toward the wheel-washing bay to prevent vehicle tracking of soil and silty water to public roads and drains; Oil interceptors should be provided in the drainage system downstream of any oil/fuel pollution sources. Oil interceptors should be emptied and cleaned regularly to prevent the release of oil and grease into the storm water drainage system after accidental spillage. A bypass should be provided for oil interceptors to prevent flushing during heavy rain. Any drainage channels connecting storm drains via designed sand/silt removal facilities should be disconnected/removed after completion of construction stage to prevent any direct discharge to the stormwater system; The construction solid waste, debris and rubbish on-site should be collected, handled and disposed of properly to avoid causing any water quality impacts. The requirements for solid waste management are detailed in Section 8 of EIA report; and 	of Completion of	-	
		• All fuel tanks and storage areas should be provided with locks and sited on sealed areas, within bunds of a capacity equal to 110% of the storage capacity of the largest tank to prevent spilled fuel oils from reaching the nearby WSRs.			

EIA Ref.	EM&A Manual Ref.	Environmental Protection Measures	Location/ Duration of Measures/ Timing of Completion of Measures	Implementation Agent	Status
6.9.3	4.4.3	There is a need to apply to the EPD for a discharge licence for discharge of effluent from the construction site under the WPCO. The discharge quality must meet the requirements as specified in the discharge licence. All the run-off and wastewater generated from the works areas should be treated so that it satisfies all the standards listed in the Technical Memorandum. Minimum distances of 100 m should be maintained between the discharge points of construction site effluent and the existing seawater intakes. In addition, no new effluent discharges in nearby typhoon shelters should be allowed. The beneficial uses of the treated effluent for other on-site activities such as dust suppression, wheel washing and general cleaning etc., would minimise water consumption and reduce the effluent discharge volume.	All work sites	Contractor and sub-contractor(s)	\checkmark
6.9.4	4.4.4	Portable chemical toilets and sewage holding tanks are recommended for the handling of the construction sewage generated by the workforce. A licenced contractor should be employed to provide appropriate and adequate portable toilets and be responsible for appropriate disposal and maintenance.	All work sites	Contractor and sub-contractor(s)	V
6.9.6	4.4.5	Any 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 be undertaken within the areas appropriately equipped to control these discharges.	All work sites	Contractor and sub-contractor(s)	\checkmark
6.9.7	4.4.6	All sewage arising from the proposed Project should be collected and diverted to the public foul water drainage system via proper connections to minimise water quality impact from the operation of the Project and ensure compliance with Technical Memorandum on Standards for Effluents Discharged into Drainage and Sewerage Systems, Inland and Coastal Waters under the Water Pollution Control Ordinance (WPCO-TM).	The Government Complex and Vehicle Depot	Contractor and sub-contractor(s), HKPF, FEHD, EMSD and GL	\checkmark
6.9.8	4.4.7	Run-offs from the covered areas including vehicle washing bays and vehicle examination / maintenance / repair / testing area would be properly treated prior to discharge into the foul water drainage system. The wastewater treatment	The Government Complex and Vehicle Depot	Contractor and sub-contractor(s)	\checkmark

EIA Ref.	EM&A Manual Ref.	Environmental Protection Measures	Location/ Duration of Measures/ Timing of Completion of Measures	Implementation Agent	Status
		facilities for the proposed Project, which comprised of petrol interceptor and sedimentation tank, would be designed using sedimentation process with adequate treatment capacity. Oily waste collected by petrol interceptors is considered and disposed of as chemical waste. The wastewater treatment facilities for the proposed Project will be designed during the detailed design stage and the treated effluent for discharging into the public foul water drainage system should comply with the effluent standards as stated in the WPCO-TM.			
Landsca	pe and Visu	al			
7.8.2	5.2.1	Hoardings should be provided with aesthetic treatment and designed to be subtle and camouflaged. It should be compatible with the surrounding landscape and visually "impermeable" to block the view of construction activities from VSRs.	All work sites	Contractor and sub-contractor(s)	N
7.8.3	5.2.1	Temporary landscape treatment, such as the provision of temporary landscape planting around the Site office in ornamental pots and application of green roof for Site office, should be considered during construction phase. Landscape planting in movable planters should also be considered as a temporary greening measure for the Project area (i.e. along Site hoarding). Design of the green roof and the type of species to be used shall be reviewed and confirmed during detailed design stage.	All work sites	Contractor and sub-contractor(s)	N/A

EIA Ref.	EM&A Manual Ref.	Environmental Protection Measures	Location/ Duration of Measures/ Timing of Completion of <u>Measures</u>	Implementation Agent	Status
7.8.4	5.2.1	Disturbance to existing vegetation should be avoided as far as practicable. Where possible, the construction programme should retain all trees in situ that are not in direct conflict with the development proposals. Subject to the detailed design of the proposed Project, a review shall be carried out before commencement of construction phase to assess the potential conflict of the construction activities with existing roadside trees and the need of corresponding measures. Proper protective fencing should be provided by the Contractor to protect the preserved trees before commencement of any works within the Project site. The protective fencing should be erected along or beyond the perimeter of the tree protection zone of each individual tree.	All work sites	Contractor and sub-contractor(s)	

EIA Ref.	EM&A Manual Ref.	Environmental Protection Measures	Location/ Duration of Measures/ Timing of Completion of Measures	Implementation Agent	Status
7.8.7	5.2.1	A multi-patch of landscape area should be provided on the roof of the proposed building to soften the impact of the built structure. An area of approximately 2600m ² of shrub, which comprises of a mix of native and ornamental species, is proposed to be provided to enhance the aesthetics of views for those viewing the roof. The type of shrub species will be confirmed during detailed design stage. The planting should be commenced during construction stage and be completed before the completion of construction stage to ensure the measure will be implemented on Day 1 of operation stage. Vegetation maintenance should be provided by the Operator.	The Government Complex and Vehicle Depot	Contractor and sub-contractor(s), Operator	N/A
7.8.8 7.8.9	5.2.1	The exterior of the permanent structure of the proposed Project should use non-reflective external finishes in light colour that is visually unobtrusive with surrounding context. Non-reflective paving materials should be considered to reduce potential glare from surface reflectance. The finishing material and colour will be reviewed and confirmed during detailed design stage. Lighting should be efficiently designed so that minimum amount of lighting is required for safety and security. The design may make reference to the Guidelines on Industry Best Practices for External Lighting Installations by Environmental Bureau, EPD and EMSD. The mounting height and direction of exterior lighting fixtures shall be designed and arranged to point away from sensitive receivers where possible. Specification of lighting operation schedule shall be formed by the operator to impose restriction on lighting operation after business hours, such as limiting the operation of lighting except for security lighting only, and in areas with necessary night-time operation where applicable.	The Government Complex and Vehicle Depot	Contractor and sub-contractor(s), Operator	N/A

EIA Ref. EM&A Manual Ref.	Environmental Protection Measures	Location/ Duration of Measures/ Timing of Completion of Measures	Implementation Agent	Status
8.5.1 6.2.1	 Recommendations for good site practices: The Contractor shall prepare a Waste Management Plan (WMP) in accordance with the requirements set out in the ETWB TCW No. 19/2005, Waste Management on Construction Site, for the Engineer's Representative approval. The WMP shall include monthly and yearly Waste Flow Tables that indicate the amounts of waste generated, recycled and disposed of (including final disposal site); The Contractor's waste management practices and effectiveness shall be audited by the Engineer's Representative on regular basis; The Contractor shall provide training for site staff for the concept of site cleanliness and appropriate waste management procedures, including waste reduction, reuse and recycling; The Contractor shall ensure sufficient waste disposal points and regular collection of waste; The Contractor shall use trucks with covering for the open-box bed and enclosed container shall be used to minimise windblown litter and dust during transportation of waste; The Contractor shall implement regular cleaning and maintenance programme for drainage systems, pumps and oil interceptors; Separation of chemical wastes for special handling and appropriate treatment at a Chemical Waste Treatment Facility (CWTF); Encourage collection of aluminium cans, paper and plastic bottles by providing separate labelled bins to enable these wastes to be segregated from other general refuse generated by the workforce; Segregation and storage of different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal; 	All works sites	Contractor and Sub-contractors	

EIA Ref.	EM&A Manual Ref.	Environmental Protection Measures	Location/ Duration of Measures/ Timing of Completion of Measures	Implementation Agent	Status
		 Make provisions in contract documents to allow and promote the use of recycled aggregates where appropriate; No waste shall be burnt on-site; A recording system for the amount of wastes generated, recycled and disposed (including disposal sites) should be proposed; Plan and stock construction materials carefully to minimise amount of waste generated and avoid unnecessary generation of waste; and Adequate numbers of portable toilets should be provided for on-site workers. Portable toilets should be maintained in reasonable states, which will not deter the workers form utilizing them. Night soil should be regularly collected by licensed collectors. 			
8.5.1	6.2.1	 <u>C&D Materials / Waste:</u> Use standard formwork or pre-fabrication as far as practicable so as to minimise the C&D Materials arising; Consider the use of more durable formwork or plastic facing for construction works; Avoid the use of wooden hoardings and substitute with metal hoarding to facilitate recycling; Purchase of construction materials should be carefully planned in order to avoid over-ordering and wastage; Establish a trip-ticket system in accordance with DevB TC(W) No. 6/2010 and Waste Disposal (Charges for Disposal of Construction Waste) Regulation in order to monitor the disposal of inert C&D Materials at public fill and the remaining C&D Waste to landfills, and control fly-tipping; Design foundation works to minimise the amount of excavated material to be generated; Sort construction debris and excavated materials on-site to recover 	All work sites	Contractor and Sub-contractors	\checkmark

EIA Ref.	EM&A Manual Ref.	Environmental Protection Measures	Location/ Duration of Measures/ Timing of Completion of Measures	Implementation Agent	Status
		 reusable/recyclable portions (i.e. soil, broken concrete, metal, etc.) for backfilling and reinstatement; Segregate and store different types of waste in different containers, skips or stockpiles to enhance reuse or recycling of materials and their proper disposal; Specify in design & build contract the use of recycled aggregates where appropriate; Plan and stock construction materials carefully to minimise the amount of waste to be generated and to avoid unnecessary generation of waste; and Recommend the use of metal fencing or building panels, which are more durable than wooden panels, for the erection of construction site hoarding. 			V
8.5.1	6.2.1	 <u>Chemical waste:</u> Chemical waste producers should be registered with the EPD; Chemical waste should be handled in accordance with the "Code of Practice on the Packaging, Handling and Storage of Chemical Wastes" including but not limited to the followings: Good quality containers compatible with the chemical wastes should be used and maintained in good conditions and securely closed, with incompatible chemicals be stored separately. Appropriate labels should be securely attached on each chemical waste container in English and Chinese according to the instructions prescribed in Schedule 2 of the Regulations. A licensed collector to transport and dispose of the chemical wastes should be employed by the Contractor, to either the Chemical Waste Treatment Centre at Tsing Yi, or any other licensed facilities. Waste oils, chemicals or solvents should not be discharged to drain; and Routine cleaning and maintenance programme for drainage systems, sumps 	The Government Complex and Vehicle Depot	Contractor and Sub-contractor; HKPF, FEHD, EMSD and GL	√

EIA Ref.	EM&A Manual Ref.	Environmental Protection Measures and oil interceptors during operation.	Location/ Duration of Measures/ Timing of Completion of Measures	Implementation Agent	Status
8.5.1	6.2.1	 <u>General refuse:</u> Sufficient dustbins should be provided for storage of waste as required under the Public Cleansing and Prevention of Nuisances By-laws; Sufficient enclosed bins should be provided for general refuse, food and beverage waste to reduce odour, pest and litter impacts; General refuse arising on-site should be stored in enclosed bins or compaction units separately from C&D and chemical wastes; A reliable waste collector should be employed to clear general refuse from the construction site on a daily basis and disposed of to the licensed landfill or refuse transfer station; Office wastes can be reduced by recycling of paper if such volume is sufficiently large to warrant collection. Participation in a local collection scheme by the Contractor should be advocated; and Waste separation facilities for paper, aluminium cans, plastic bottles, etc. should be provided on-site and collected by individual collectors should be encouraged. 	The Government Complex and Vehicle Depot	Contractor and Sub-contractor; HKPF, FEHD, EMSD and GL	
Hazard t	o Life		1	1	1
10.11.1	8.2.1	 Recommendations for good site practices in construction phase: ignition of fire on site should be controlled throughout the construction programme; any temporary storage of fuel and flammable chemical should be minimised to reduce chance of causing explosion or escalation of fire in the case of emergency event at nearby potentially hazardous sources; 	All works area	Contractor and sub-contractors	1

EIA Ref.	EM&A Manual Ref.	Environmental Protection Measures	Location/ Duration of Measures/ Timing of Completion of Measures	Implementation Agent	Status
		 fire extinguisher or other firefighting equipment should be made easily accessible to on-site workers; and establish communication channel and evacuation plan in the case of emergency event at nearby potentially hazardous sources. 			

Remark:

 $\sqrt{\text{Compliance of Mitigation Measures}}$

<> Compliance of Mitigation but need improvement

x Non-compliance of Mitigation Measures

▲ Non-compliance of Mitigation Measures but rectified by Yau Lee Construction, Co, Ltd

 Δ Deficiency of Mitigation Measures but rectified by Yau Lee Construction, Co, Ltd

N/A Not Applicable in Reporting Period

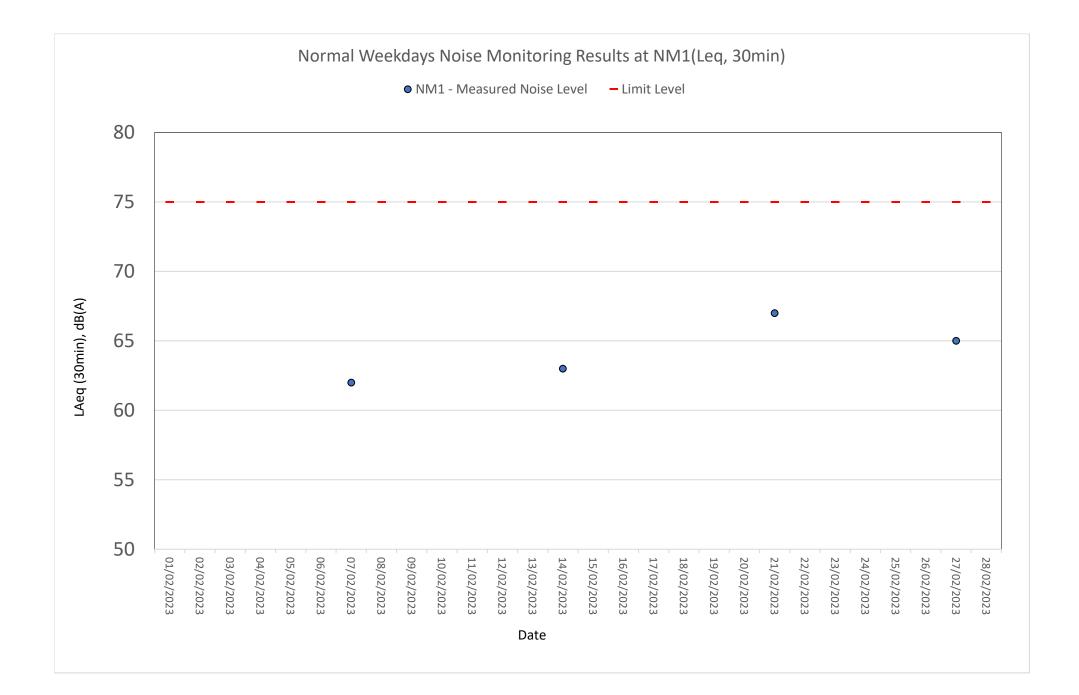
Appendix 7

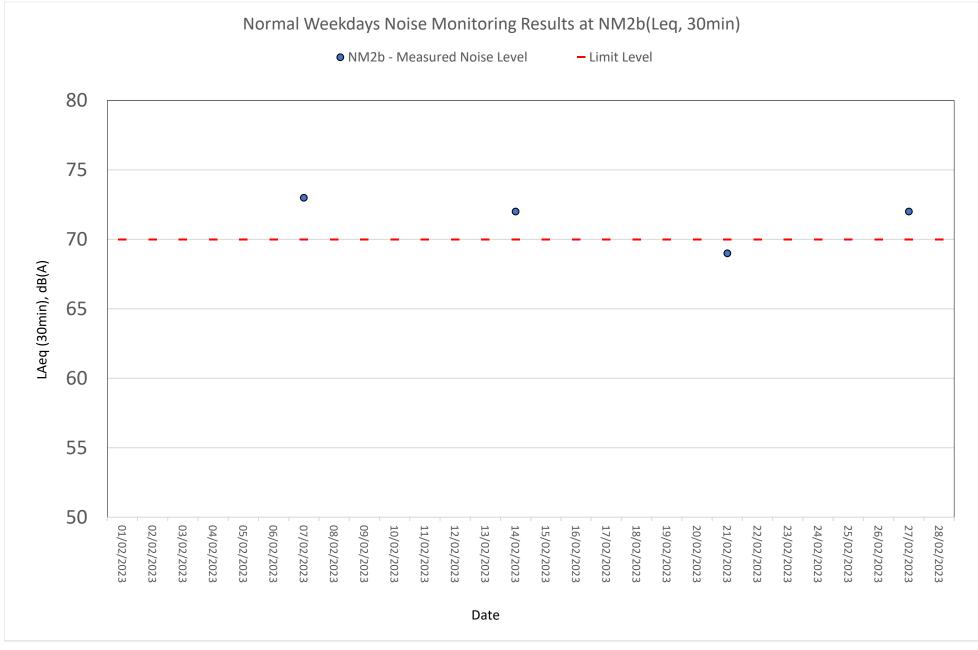
Contract No. SS H504 Design and Construction of Chai Wan Government Complex and Vehicle Depot Noise Monitoring Data

Date(yyyy-mm- dd)	Station	Start Time	Wind Speed, m/s	1st set 5	mins, dB(A)	2nd set 5r	mins, dB(A)	3rd set 5r	mins, dB(A)	4th set 5n	nins, dB(A)	5th set 5	mins, dB(A)	6th set 5r	nins, dB(A)	[Construc	Noise Level ction Noise 30mins, dB(A)	Unit	Site Observation	-	Noise Level tion Noise , dB(A)	Unit	Construction Noise Level #	Unit
				Leq:	63.4	Leq:	62.3	Leq:	61.8	Leq:	61.7	Leq:	62.4	Leq:	61.4				Major: Noise from Yau Lee Site					
2023-02-07	NM1*	14:34	0.4	L10:	66.6	L10:	65.9	L10:	64.8	L10:	65.0	L10:	66.0	L10:	63.3	Leq:	62	dB(A)	Other: Railway Noise.	Leq:	62.22	dB(A)	N.A.	dB(A)
				L90:	56.8	L90:	55.7	L90:	56.2	L90:	57.3	L90:	56.6	L90:	55.6		↓ →		· · · · · · · · · · · · · · · · · · ·					
2022 02 07		12.50		Leq:	73.0	Leq:	75.9	Leq:	71.1	Leq:	71.9	Leq:	73.6	Leq:	72.2		724		Major: Noise from Yau Lee Site	1	72.25			
2023-02-07	NM2b *	13:50	0.3	L10:	76.4	L10:	75.4	L10:	73.9	L10:	75.8	L10:	76.2	L10:	75.1	Leq:	73^	dB(A)	Other: Traffic Noise.	Leq:	73.25	dB(A)	N.A.	dB(A)
				L90:	65.7	L90:	64.0	L90:	65.1	L90:	64.1	L90:	64.2	L90:	64.8		 							
2023-02-07	NM3	13:02	0.3	Leq:	67.9	Leq:	67.7	Leq:	67.9	Leq:	68.0	Leq:	68.2	Leq:	67.8	Logi	68	dB(A)	Major: Noise from Yau Lee Site	Logi	67.92	dB(A)	N.A.	dB(A)
2023-02-07		15.02	0.5	L10: L90:	70.0	L10: L90:	69.6 65.5	L10: L90:	69.4 65.9	L10: L90:	70.3 65.1	L10: L90:	70.0 66.2	L10: L90:	69.4 65.5	Leq:	08	UD(A)	Other: Noise from Cargo Handling Area.	Leq:	07.92	ub(A)	N.A.	UB(A)
					62.4		61.8		63.4		63.6		64.4				++							
2023-02-14	NM1*	14:34	0.8	Leq: L10:	65.6	Leq: L10:	65.5	Leq: L10:	66.9	Leq: L10:	66.6	Leq: L10:	68.0	Leq: L10:	63.9 67.1	Leq:	63	dB(A)	Major: Noise from Yau Lee Site	Leg:	63.34	dB(A)	N.A.	dB(A)
2023 02 14		14.54	0.0	L10.	57.1	L10.	55.8	L10.	56.7	L10.	58.0	L10.	56.2	L10.	57.0	Leq.	00	ub(/ ()	Other: Railway Noise .	Leq.	03.54	ab(/ ()	14.7 (1	
				Leq:	73.1	Loo: Leq:	73.4	Leq:	71.3	Leq:	73.9	Leq:	70.0	Leg:	72.0		<u> </u>							
2023-02-14	NM2b *	13:40	0.5	L10:	76.1	LEQ.	76.0	L10:	75.1	LEQ. L10:	73.5	LEq.	73.2	L10:	75.2	Leq:	72^	dB(A)	Major: Noise from Yau Lee Site	Leg:	72.48	dB(A)	N.A.	dB(A)
	-			L90:	65.8	L90:	69.6	L90:	66.3	L90:	66.4	L90:	64.9	L90:	65.3			- ()	Other: Traffic Noise.		_	- ()		
				Lea:	68.9	Leg:	67.3	Leq:	66.9	Leg:	69.2	Leg:	69.5	Leg:	67.0									
2023-02-14	NM3	13:01	0.5	L10:	70.4	L10:	68.7	L10:	68.2	L10:	70.5	L10:	70.8	L10:	68.8	Leq:	68	dB(A)	Major: Noise from Yau Lee Site	Leq:	68.27	dB(A)	N.A.	dB(A)
				L90:	66.5	L90:	65.5	L90:	64.8	L90:	66.8	L90:	65.7	L90:	65.1				Other: Noise from Cargo Handling Area.					
				Leq:	67.8	Leg:	66.6	Leq:	67.2	Leq:	62.7	Leq:	66.4	Leq:	69.8				Maine Naina franc Variana Cita					
2023-02-21	NM1*	14:34	2.1	L10:	70.5	L10:	68.6	L10:	69.2	L10:	67.7	L10:	69.0	L10:	67.6	Leq:	67	dB(A)	Major: Noise from Yau Lee Site	Leq:	67.22	dB(A)	63.08	dB(A)
				L90:	63.3	L90:	62.9	L90:	62.3	L90:	65.6	L90:	61.8	L90:	60.8				Other: Railway Noise and Traffic Noise.					
				Leq:	69.0	Leq:	69.4	Leq:	69.3	Leq:	68.7	Leq:	68.7	Leq:	68.3				Major: Noise from Yau Lee Site					
2023-02-21	NM2b *	13:40	0.8	L10:	72.3	L10:	72.6	L10:	71.5	L10:	71.3	L10:	71.4	L10:	70.8	Leq:	69	dB(A)	Other: Traffic Noise.	Leq:	68.92	dB(A)	N.A.	dB(A)
				L90:	62.8	L90:	63.2	L90:	65.1	L90:	65.4	L90:	65.1	L90:	65.2				other: manie Noise.					
				Leq:	69.6	Leq:	68.5	Leq:	69.2	Leq:	68.5	Leq:	69.9	Leq:	69.5	4			Major: Noise from Yau Lee Site					
2023-02-21	NM3	13:01	1.1	L10:	72.3	L10:	70.6	L10:	70.6	L10:	70.3	L10:	72.5	L10:	71.0	Leq:	69	dB(A)	Other: Noise from Cargo Handling Area.	Leq:	69.23	dB(A)	N.A.	dB(A)
				L90:	62.5	L90:	62.2	L90:	62.6	L90:	62.8	L90:	65.0	L90:	63.0									
2022 02 27	N 10 44 ¥	11.00		Leq:	64.8	Leq:	65.3	Leq:	64.4	Leq:	63.6	Leq:	63.7	Leq:	65.1	4.	65		Major: Noise from Yau Lee Site		64.52			
2023-02-27	NM1*	14:00	1.3	L10:	67.1	L10:	67.7	L10:	66.9	L10:	66.2	L10:	66.7	L10:	68.1	Leq:	65	dB(A)	Other: Railway Noise and Traffic Noise.	Leq:	64.53	dB(A)	N.A.	dB(A)
				L90:	60.8	L90:	61.6	L90:	59.3	L90:	59.3	L90:	57.9	L90:	57.8		┼───┼							
2023-02-27	NM2b *	13:24	0.8	Leq: L10:	73.5 76.3	Leq: L10:	71.7 74.2	Leq: L10:	70.3 73.8	Leq: L10:	70.4 73.9	Leq: L10:	70.7 73.8	Leq: L10:	72.1 75.3	Leq:	72^	dB(A)	Major: Noise from Yau Lee Site	Leq:	71.60	dB(A)	N.A.	dB(A)
2023-02-27		13.24	0.0	L10: L90:	66.0	L10: L90:	64.2	L10: L90:	61.5	L10: L90:	61.0	L10: L90:	62.6	L10: L90:	63.6	Ley.			Other: Traffic Noise.	Leq.	, 1.00		11.75.	
			+	Leg:	68.1	L90: Leq:	65.5	L90: Leq:	67.1	L90. Leq:	64.9	L90.	69.6	Leg:	68.1		<u>├</u> ──┼							
2023-02-27	NM3	12:42	1.1	L10:	71.0	L10:	67.5	L10:	69.2	L10:	65.4	L10:	72.8	L10:	70.7	Leq:	68	dB(A)	Major: Noise from Yau Lee Site	Leq:	67.51	dB(A)	N.A.	dB(A)
				L90:	62.0	L90:	62.3	L90:	62.4	L90:	61.6	L90:	62.9	L90:	63.9	- 1.		- \/	Other: Noise from Cargo Handling Area.	2.41		- \. 7		- \. 7

Remark: * A facade correction of +3 dB(A) was applied to the measured noise level.

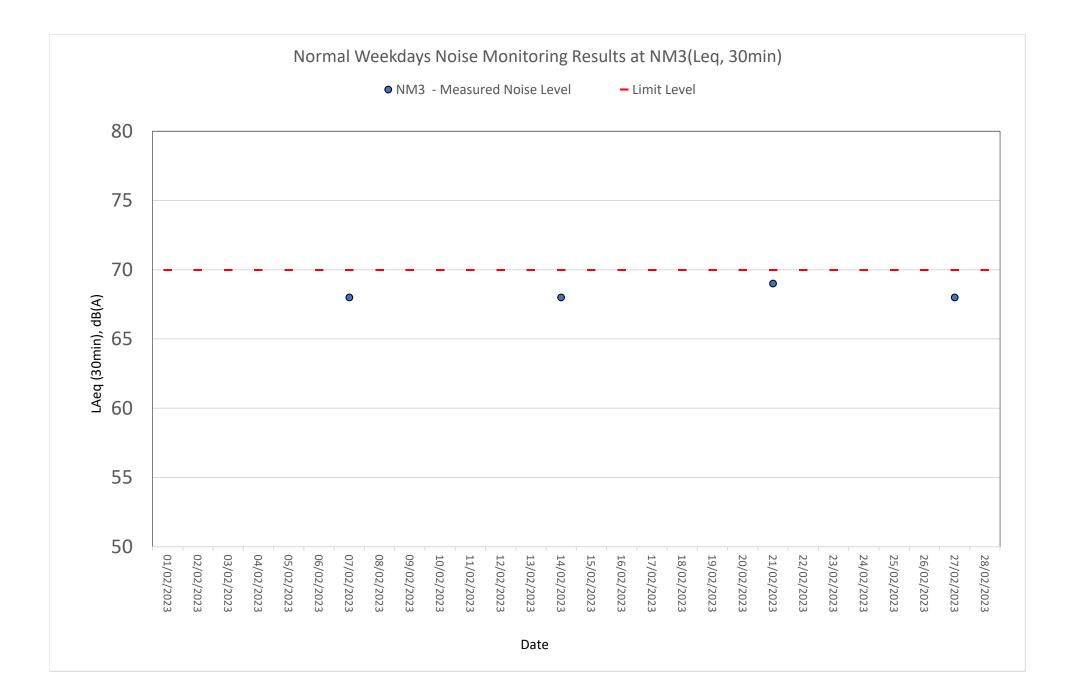
^On 7, 14 and 27 Feb 2023, the measured noise levels of NM2b exceeded the limit level of 70dB(A). However, they were lower than the baseline level of 73.4 dB(A). Therefore, they are not considered as an limit level exceedance.





Remark:

On 7, 14 and 27 Feb 2023 the measured nose level of NM2b exceeded the action level of 70dB(A). However, they were lower than the baseline level of 73.4dB(A). Therefore, they are not considered as an Limit Level exceedance.



Appendix 8

Waste Flow Table

			Total Quanti	ties of C&D Ma	terials to be	Generated	from the Co	ontract			
Month	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in Other Projects	Disposed as Public Fill (Inert waste) ¹	Imported Fill	Metals	Timber	Paper / Cardboard Packaging	Plastics	Chemical Waste	Others, e.g. general refuse (Non-inert waste) ²
Month	(in tonne)	(in tonne)	(in tonne)	(in tonne)	(in tonne)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000L)	(in tonne)
Jul-21	0	0	0	0	0	0	0	0	0	0	0
Aug-21	0	0	0	0	0	0	0	0	0	0	0
Sep-21	0	0	0	0	0	0	0	0	0	0	1.28
Oct-21	0	0	0	0	0	0	0	0	0	0	7.67
Nov-21	0	0	0	0	0	0	6.77	0.055	0	0	1.23
Dec-21	0	0	0	811.54	0	0	0	0	0	0	7.84
Jan-22	0	0	0	3270.8	0	0	0	0	0	0	2.5
Feb-22	0	0	0	2886.66	0	0	0	0	0	0	1.31
Mar-22	0	0	0	3793	0	0	0	0	0	0	3.43
Apr-22	0	0	0	3126.84	0	7.420	0	0	0	0	3.58
May-22	0	0	0	2414.91	0	0	0	0	0	0	3.64
Jun-22	0	0	0	4427.27	0	0	0	0	0	0	2.36
Jul-22	0	0	0	6759.07	0	0	0	0	0	1	4.28

	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in Other Projects	Disposed as Public Fill (Inert waste) ¹	Imported Fill	Metals	Timber	Paper / Cardboard Packaging	Plastics	Chemical Waste	Others, e.g. general refuse (Non-inert waste) ²
Month	(in tonne)	(in tonne)	(in tonne)	(in tonne)	(in tonne)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000L)	(in tonne)
Aug-22	0	0	0	5152.13	0	0	0	0	0	0	1.89
Sep-22	0	0	0	5305.27	0	0	0	0	0	0	8.32
Oct-22	0	0	0	5,120.34	0	0	0	0	0	0	12.84
Nov-22	0	0	0	5733.35	0	0	0	0	0	0	1.75
Dec-22	0	0	0	2063.77	0	0	0	0	0	0	3.02
Jan-23	0	0	0	577.99	0	0	0	0	0	0	17.84
Feb-23	0	0	0	1493.86	0	0	0	0	0	0	45.42
Total	0	0	0	52,936.8	0	7.420	6.77	0.055	0	1	130.2

Note: 1. Inert waste will be disposed to Chai Wan Public Fill Barging Point (CW-PFBP) or Fill Bank at Tseung Kwan O Area 137(TKO137FB).

2.Non-inert waste (General refuse) will be disposed to North East New Territories Landfill (NENT).

Appendix 9

`Inspection Date:	3 February 2023	Inspected By:	Andy Ng, Jason Man			
Time:	14:00 – 14:30	Weather Condition:	Overcast			
Participants: Mr K.H Lam (Engineer's Representative); Desmond Ho (Contractor); Andy Ng (ET), Jason I (ET), Jimmy Lui (IEC)						

Α	Permits/Licenses	N/A or Not Observed	Yes	No	Remarks / Photo
A1	Are Environmental Permit, license/ other permit displayed at major site exit and vehicle access?		\boxtimes		EP No.: EP-505/2015/A
A2	Are Construction Noise Permits available for inspection/posted at site entrance.		\boxtimes		CNP No: GW-RS0672-22
A3	Is wastewater discharge licence available for inspection?		\boxtimes		
A4	Are trip tickets for chemical waste and construction waste disposal available for inspection?		\boxtimes		
A5	Are relevant licence/permit for disposal of construction waste or excavated materials available for inspection?		\boxtimes		

в	Air Quality	N/A or Not Observed	Yes	No	Remarks / Photo
B1	Is open burning avoided?		\boxtimes		
B2	Are completed earthworks sealed as soon as practicable?		\boxtimes		
B3	Are plant and equipment well maintained (i. e. without black smoke from powered plant)?		\boxtimes		
B4	Any remedial action undertaken?	\boxtimes			N.A.
B5	Observed dust source(s)				
		U Wind eros	sion		
		Vehicle/ E	Equipment	Moveme	nts
		Loading/	unloading	of materi	als
		Others:	Not O	bserved	
B6	Are unpaved areas/ designated roads watered regularly to avoid dust generation?		\boxtimes		
B7	Are dusty materials covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet and then removed or backfilled or		\boxtimes		
	reinstated where practicable within 24 hours of the excavation or unloading?				
B8	After removal of stockpile, are the remained dusty materials wetted with water and cleared from surface of roads?	\boxtimes			N.A.
B9	Is the stockpile of dusty materials avoid to be extend beyond the pedestrian barriers, fencing or traffic cones?		\boxtimes		
B10	Are loaded dump trucks covered by impervious sheeting appropriately before leaving the site?		\boxtimes		
B11	Are wheel washing facilities with high pressure water jet provided at all site exits if practicable?		\boxtimes		

B12	Are all vehicles and plant cleaned before they leave the construction site?		\boxtimes	
B13	Are hoarding \geq 2.4m tall provided beside roads or		\square	
	area with public access?			
B14	Is the portion of any road leading only to		\boxtimes	
	construction site (within 30m of a vehicle entrance			
	or exit) kept clear of dusty materials?			
B15	Are surfaces where any pneumatic or power-driven		\boxtimes	
	drilling, cutting, polishing or other mechanical			
	breaking operations takes place sprayed with water			
	or a dust suppression chemical continuously?			
B16	Is the area involved demolition activities sprayed			
5.0	with water or a dust suppression chemical	\square		
	immediately prior to, during and immediately after			N.A.
	the activities so as to maintain the entire surface			N.A.
	wet?			
D47				
B17	Is scaffolding erected around the perimeter of a	\boxtimes		N.A.
-	building under construction?			
B18	Are effective dust screens, sheeting or netting	\boxtimes		
	provided to enclose the scaffolding from the ground			
	floor level of the building, or a canopy provided from			N.A.
	the first floor level up to the highest level of the			
	scaffolding?			
B19	Is the skip hoist for materials transport enclosed by	\boxtimes		NL 0
	impervious sheeting?			N.A.
B20	Is every stock of more than 20 bags of cement or		\boxtimes	
	dry pulverized fuel ash (PFA) covered entirely by			
	impervious sheeting or placed in an area sheltered			
	on the top and 3 sides?			
B21	Are the areas of washing facilities and the road			
021	section between the washing facilities and the exit		\boxtimes	
	point paved with concrete, bituminous materials or			
	hardcores?			
DOO				
B22	Are cement or dry PFA delivered in bulk stored in a		\boxtimes	
	closed silo fitted with an audible high-level alarm			
	which is interlocked with the material filling line and			
	no overfilling is allowed?			
B23	Are the activities of loading, unloading, transfer,		\boxtimes	
	handing or storage of bulk cement or dry PFA		<u> </u>	
	carried out in a totally enclosed system or facility?			
B24	Is any vent or exhaust fitted with an effective fabric	\boxtimes		N.A.
	filter or equipment air pollution control system?			N.A.
B25	Is the exposed earth properly treated by	\boxtimes		
	compaction, turfing, hydroseeding, vegetation			
	planting or sealing with latex, vinyl, bitumen,			
	shotcrete or other suitable surface stabiliser within			N.A.
	six months after last construction activity on the			
	construction site or part of the construction site			
	where the exposed earth lies?			
B26	Are the worksites wetted with water regularly?			
B27	Is generation of dust avoided during loading or unloading?		\boxtimes	
B28	Are all trucks loaded to a level within the side and tail boards?		\boxtimes	
B29	Are appropriate speed limit sign displayed?		\square	
			<u>ت ت</u>	

B30	Are designated roads paved?	\boxtimes	
B31	Are site vehicle movements confined to designated roads?	\boxtimes	

с	Noise	N/A or Not Observed	Yes	No	Remarks / Photo	
C1	Is well-maintained plant operated on-site and plant served regularly?		\boxtimes			
C2	Are vehicles and equipment switched off or throttled down while not in use?		\boxtimes			
C3	Is the noise directed away from nearby NSRs?		\boxtimes			
C4	Are the silencers or mufflers properly fitted on construction equipment and maintained regularly?		\boxtimes			
C5	Are mobile and/or noisy plant sited as far away from NSRs as possible and practicable and orientated so that the noise is directed away from nearby NSRs?		\boxtimes			
C6	Are material stockpiles, mobile container officer and other structures utilised to screen noisy activates?	\boxtimes			N.A.	
C7	Is temporary hoarding installed located on the site boundaries between noisy construction activities and NSRs?		\boxtimes			
C8	Are noise barriers (typically density @14kg/m ²) acoustic mat or full enclosure close to noise plants including air compressor, generators and saw etc. provided to protect NSRs?			\boxtimes	Refer to Reminder 1	
C9	Is the sequencing operation of construction plants where practicable?		\boxtimes			
C10	Is the hoarding maintained properly?		\boxtimes			
C11	Do air compressors have valid noise labels?		\boxtimes			
C12	Are compressor operated with doors closed?		\boxtimes			
C13	QPME used with valid noise labels?		\times			
C14	Major noise source(s)					
		Traffic				
			ion activiti	es inside	of site	
		Construction activities outside of site				
		Others:	N	ot Obser	ved	

Report No. 0061-20230203

Chai Wan Government Complex and Vehicle Depot

D	Water Quality	N/A or Not Observed	Yes	No	Remarks / Photo
Const	ruction Activities				
D1	Are catchpits and perimeter channels constructed in advance of site formation works and earthworks?		\boxtimes		
D2	Is wastewater from temporary site facilities controlled to prevent direct discharge to surface or marine water?		\boxtimes		
D3	Is minimise surface excavation works during rainy seasons (April to September), as possible?	\boxtimes			N.A.
D4	Is the storm drainage directed to storm drains via adequately designed sand/ silt removal facilities e.g. sand traps, silt?		\boxtimes		
D5	Are channels, earth bunds or sandbag barriers provided on site to properly direct stormwater to such silt removal facilities?		\boxtimes		
D6	Are the silt removal facilities, channels and manholes maintained regularly?		\boxtimes		
D7	Are the temporary access roads surfaced with crushed stone or gravel?		\boxtimes		
D8	Is the deposited silt and grit removed regularly?		\boxtimes		
D9	Is rainwater pumped out from trenches discharged into storm drains via silt system?		\boxtimes		
D10	Are measures taken to prevent the washout of construction materials, soil, silt or debris into any drainage system?		\boxtimes		
D11	Are open stockpiles of construction materials e.g. aggregates and sand on site covered with tarpaulin or similar fabric during rainstorms?	\boxtimes			N.A.
D12	Are manholes adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage?		\boxtimes		
D13	Are the discharges of surface run-off into foul sewer always prevented?		\boxtimes		
D14	Is a wheel washing bay provided at every site exit?		\boxtimes		
D15	Is the wheel wash overflow directed to silt removal facilities before being discharged to the storm drain?		\boxtimes		
D16	Is the section of construction road between the wheel washing bay and the public road surfaced with crushed stone or coarse gravel?		\boxtimes		
D17	Is wastewater generated from concreting, plastering, internal decoration, cleaning work and other similar activities screened to remove large objects?	\boxtimes			N.A.
D18	Are the vehicle and plant serving areas, vehicle wash bays and lubrication facilities located under roofed areas?		\boxtimes		
D19	Is leakage or spillages contained and cleaned up immediately?		\boxtimes		
D20	Does the surface runoff from bunded areas pass through oil/grease traps prior to discharge to the storm water system?	\boxtimes			N.A.

D21	Are site drainage systems provided over the entire project site with sediment control facilities?		\boxtimes	
D22	Are sedimentation tanks or package treatment systems provided to treat the large amount of sediment-laden wastewater generated from wheel washing, site runoff and construction works?		\boxtimes	
D23	Is the generated wastewater with high concentrations of SS collected to the sedimentation tanks or package treatment systems for proper treatment prior to disposal?		\boxtimes	
D24	Is the treated wastewater reused for vehicle washing, dust suppression and general cleaning?		\boxtimes	
D25	Is the sewage generated from toilets collected using a temporary storage system?		\boxtimes	
D26	Is there any sediment plume observed in nearby watercourses?	\boxtimes		Not observed.
D27	Are slit-grease traps deployed to prevent a direct input of road surface runoff to the marine waters?	\boxtimes		N.A.

Е	Waste / Chemical Management	N/A or Not Observed	Yes	No	Remarks / Photo
Gener	al Waste				
E1	Is the general waste generated on-site stored in enclosed bins or compaction units separately from the construction and chemical wastes?		\boxtimes		
E2	Is the general waste collected properly by using the waste separation facilities for paper, aluminium cans, plastic bottles etc.?		\boxtimes		
E3	Does accumulation of waste avoid?		\boxtimes		
E4	Is waste disposed regularly?		\boxtimes		
<u>Const</u>	ruction Waste				
E5	Are the temporary stockpiles maintained regularly?	\boxtimes			N.A.
E6	Is the excavated fill material reused for backfilling and reinstatement?		\boxtimes		
E7	Are the C&D materials sorted and recycled on- site?	\boxtimes			N.A.
E8	Is there any contract documents provided to allow and promote the use of recycled aggregates where appropriate?	\boxtimes			Not observed.
E9	Is the disposal of C&D materials avoided onto any sensitive locations e.g. agricultural lands etc.?	\boxtimes			N.A.
E10	Are the public fill and C&D waste segregated and stored in different containers or skips to enhance reuse or recycling of materials and their proper disposal?		\boxtimes		
E11	Is the durable formwork or plastic facing for construction works used?	\boxtimes			N.A.
E12	Do the wooden hoardings avoid to be used?		\boxtimes		
E13	Is metal hoarding used to enhance the possibility of recycling?		\boxtimes		
E14	Is the segregation and storage of C&D wastes undertaken in designated are?		\boxtimes		

E15	Are waste storage area properly cleaned and do not cause windblown litter and dust nuisance?		\boxtimes				
E16	Do the excavated materials appear contaminated?			\boxtimes			
E17	If suspected contaminated, appropriate procedures followed?	\boxtimes			N.A.		
<u>Chemi</u>	cal / Fuel Storage Area						
E18	Are the fuel tanks and chemical storage areas		\boxtimes				
	provided with locks and sited on sealed areas?						
E19	Are the storage area enclosed 3 sides by walls/		\boxtimes				
	fence of ≥2m tall and bounded with adequate bund						
	capacity (>110% of largest container) or do the						
	storage area allow storage of 20% of total volume of waste?						
E20	Are the storage areas labelled and separated (if		\boxtimes				
	needed)?						
E21	Do the storage areas have adequate ventilation		\times				
	and be covered to prevent rainfall entering?						
E22	Are the containers used for the storage of chemical		X				
	wastes suitable for the substance that are holding,						
	resist to corrosion, maintained in a good condition,						
	and securely closed?						
E23	If no specification has been approved by EPD, are		\boxtimes				
	container with <450L capacity provided for storage						
	of chemicals waste?						
<u>Chemi</u>	cal Waste / Waste Oil						
E24	Is chemical waste or waste oil stored and labelled		\boxtimes				
	in English and Chinese properly in designated						
	area?						
E25	Are chemicals and waste oil recycled or disposed		X				
	properly?						
E26	Is waste oil collected and stored for recycling or			\boxtimes	Refer to		
	disposal?				Observation 1		
Records							
E27	Is a licensed waste haulier used for waste		\boxtimes				
	collection?						
E28	Are the records of quantities of wastes generated,		X				
	recycled and disposed properly kept?						
E29	For the demolition material/ waste, is the number	X			NL 4		
	of loads for each day recorded as appropriate?				N.A.		

F	Landscape and Visual Impacts	N/A or Not Observed	Yes	No	Remarks / Photo
F1	Is the work site confined within site boundaries?		\boxtimes		
F2	Is damage to surrounding areas avoided?		\boxtimes		
F3	Is the hoardings with aesthetic treatment provided and designed to be subtle and camouflaged?		\boxtimes		
F4	Is the temporary landscape treatment provided (such as the provision of temporary landscape planting around the Site office in ornamental pots and application of green roof for Site office)?		\boxtimes		
F5	Are the protective fencing erected along or beyond the perimeter of the tree protection zone of each individual tree?		\boxtimes		

G	Environmental Complaint	N/A or Not Observed	Yes	No	Remarks / Photo
G1	Number of Environmental Complaint received from 11/11/2021 to 03/02/2023			\boxtimes	

н	General Housekeeping	N/A or Not Observed	Yes	No	Remarks / Photo
H1	Are potential stagnant pools cleared and mosquito breeding prevented?		\boxtimes		
H2	Are the defined boundaries of working areas identified to prevent loss of vegetation		\boxtimes		

I	Others	N/A or Not Observed	Yes	No	Remarks / Photo
11	Are the portable toilets maintained in a state, which will not deter the workers from utilizing these portable toilets?		\boxtimes		

Follow up action for previous Site Inspection:

- 1. The Contractor has scheduled watering to the work area. (Photo F1)
- 2. The stockpile of waste was removed. (Photo F2)



Observation(s):

1. The oil drums are observed without drip tray. (Photo 1)

Reminder(s):

1. Movable noise barrier is not provided to the sheet piling machine. (Photo 2)



Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

- 1. Drip tray shall be provided to the oil drums.
- 2. The Contractor has been reminded to provide movable noise barriers for sheet piling machine as required in the CNMP.

	Environmental Team Representative:	IEC's Representative:	Contractor's Representative:	Engineer's Representative
Signature:	Yng	J	A.	Can
Name:	Andy Ng	Jimmy Lui	Desmond Ho	Henry Lam SUPD/COW
Date:	3 February 2023	3 February 2023	3 February 2023	03 February 2023

Environmental Site Inspect	ion Checklist (Rev. 0)

`Inspection Date:	9 February 2023	Inspected By:	Andy Ng				
Time:	15:00 – 15:30	Weather Condition:	Cloudy				
Participants:	Mr K.H Lam (Engineer's Representative); Desmond Ho (Contractor); Andy Ng (ET)						

Α	Permits/Licenses	N/A or Not Observed	Yes	No	Remarks / Photo
A1	Are Environmental Permit, license/ other permit		\boxtimes		EP No.:
	displayed at major site exit and vehicle access?				EP-505/2015/A
A2	Are Construction Noise Permits available for		\boxtimes		CNP No:
	inspection/posted at site entrance.				GW-RS0672-22
A3	Is wastewater discharge licence available for		\boxtimes		
	inspection?				
A4	Are trip tickets for chemical waste and construction		\boxtimes		
	waste disposal available for inspection?				
A5	Are relevant licence/permit for disposal of				
	construction waste or excavated materials available		\boxtimes		
	for inspection?				

в	Air Quality	N/A or Not Observed	Yes	No	Remarks / Photo
B1	Is open burning avoided?		\boxtimes		
B2	Are completed earthworks sealed as soon as practicable?		\boxtimes		
B3	Are plant and equipment well maintained (i. e. without black smoke from powered plant)?		\boxtimes		
B4	Any remedial action undertaken?	\boxtimes			N.A.
B5	Observed dust source(s)				
		U Wind eros	sion		
		Vehicle/ E	Equipment	Moveme	nts
		Loading/ unloading of materials			
		Others:	Not O	bserved	
B6	Are unpaved areas/ designated roads watered regularly to avoid dust generation?		\boxtimes		
B7	Are dusty materials covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading?			\boxtimes	Refer to Reminder 1
B8	After removal of stockpile, are the remained dusty materials wetted with water and cleared from surface of roads?	\boxtimes			N.A.
B9	Is the stockpile of dusty materials avoid to be extend beyond the pedestrian barriers, fencing or traffic cones?		\boxtimes		
B10	Are loaded dump trucks covered by impervious sheeting appropriately before leaving the site?		\boxtimes		
B11	Are wheel washing facilities with high pressure water jet provided at all site exits if practicable?		\boxtimes		

			1		
B12	Are all vehicles and plant cleaned before they leave the construction site?		\boxtimes		
B13	Are hoarding \geq 2.4m tall provided beside roads or				Refer to
DIS	area with public access?			\boxtimes	Observation 1
B14	Is the portion of any road leading only to				
014	construction site (within 30m of a vehicle entrance		\boxtimes		
D15	or exit) kept clear of dusty materials?				
B15	Are surfaces where any pneumatic or power-driven		\square		
	drilling, cutting, polishing or other mechanical				
	breaking operations takes place sprayed with water				
	or a dust suppression chemical continuously?				
B16	Is the area involved demolition activities sprayed	\boxtimes			
	with water or a dust suppression chemical				
	immediately prior to, during and immediately after				N.A.
	the activities so as to maintain the entire surface				
	wet?				
B17	Is scaffolding erected around the perimeter of a	\boxtimes			N.A.
	building under construction?				N.A.
B18	Are effective dust screens, sheeting or netting	\boxtimes			
	provided to enclose the scaffolding from the ground				
	floor level of the building, or a canopy provided from				N.A.
	the first floor level up to the highest level of the				
	scaffolding?				
B19	Is the skip hoist for materials transport enclosed by	\boxtimes			N1 A
	impervious sheeting?				N.A.
B20	Is every stock of more than 20 bags of cement or		\boxtimes		
	dry pulverized fuel ash (PFA) covered entirely by				
	impervious sheeting or placed in an area sheltered				
	on the top and 3 sides?				
B21	Are the areas of washing facilities and the road				
	section between the washing facilities and the exit		\boxtimes		
	point paved with concrete, bituminous materials or				
	hardcores?				
B22	Are cement or dry PFA delivered in bulk stored in a				
	closed silo fitted with an audible high-level alarm		\boxtimes		
	which is interlocked with the material filling line and				
	no overfilling is allowed?				
B23	Are the activities of loading, unloading, transfer,				
020	handing or storage of bulk cement or dry PFA		\boxtimes		
	carried out in a totally enclosed system or facility?				
B24	Is any vent or exhaust fitted with an effective fabric				
024	filter or equipment air pollution control system?	\boxtimes			N.A.
B25	Is the exposed earth properly treated by				
020	compaction, turfing, hydroseeding, vegetation	\square			
	planting or sealing with latex, vinyl, bitumen,				
	shotcrete or other suitable surface stabiliser within				N.A.
	six months after last construction activity on the				IN. <i>7</i> 1.
	-				
	construction site or part of the construction site				
B26	where the exposed earth lies? Are the worksites wetted with water regularly?				
			\square		
B27	Is generation of dust avoided during loading or unloading?		\boxtimes		
B28	Are all trucks loaded to a level within the side and				
	tail boards?				
B29	Are appropriate speed limit sign displayed?		\boxtimes		

B30	Are designated roads paved?	\boxtimes	
B31	Are site vehicle movements confined to designated roads?	\boxtimes	

с	Noise	N/A or Not Observed	Yes	No	Remarks / Photo
C1	Is well-maintained plant operated on-site and plant served regularly?		\boxtimes		
C2	Are vehicles and equipment switched off or throttled down while not in use?		\boxtimes		
C3	Is the noise directed away from nearby NSRs?		\boxtimes		
C4	Are the silencers or mufflers properly fitted on construction equipment and maintained regularly?		\boxtimes		
C5	Are mobile and/or noisy plant sited as far away from NSRs as possible and practicable and orientated so that the noise is directed away from nearby NSRs?		\boxtimes		
C6	Are material stockpiles, mobile container officer and other structures utilised to screen noisy activates?	\boxtimes			N.A.
C7	Is temporary hoarding installed located on the site boundaries between noisy construction activities and NSRs?		\boxtimes		
C8	Are noise barriers (typically density @14kg/m ²) acoustic mat or full enclosure close to noise plants including air compressor, generators and saw etc. provided to protect NSRs?		\boxtimes		
C9	Is the sequencing operation of construction plants where practicable?		\boxtimes		
C10	Is the hoarding maintained properly?			\boxtimes	Refer to Observation 1
C11	Do air compressors have valid noise labels?		\boxtimes		
C12	Are compressor operated with doors closed?		\boxtimes		
C13	QPME used with valid noise labels?		\boxtimes		
C14	Major noise source(s)				
		Traffic			
		Construction activities inside of site			
		Construction activities outside of site			
		Others:	N	ot Obser	ved

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Chai Wan Government Complex and Vehicle Depot

D	Water Quality	N/A or Not Observed	Yes		Remarks / Photo		
Construction Activities							
D1	Are catchpits and perimeter channels constructed in advance of site formation works and earthworks?		\boxtimes				
D2	Is wastewater from temporary site facilities controlled to prevent direct discharge to surface or marine water?		\boxtimes				
D3	Is minimise surface excavation works during rainy seasons (April to September), as possible?	\boxtimes			N.A.		
D4	Is the storm drainage directed to storm drains via adequately designed sand/ silt removal facilities e.g. sand traps, silt?		\boxtimes				
D5	Are channels, earth bunds or sandbag barriers provided on site to properly direct stormwater to such silt removal facilities?		\boxtimes				
D6	Are the silt removal facilities, channels and manholes maintained regularly?		\boxtimes				
D7	Are the temporary access roads surfaced with crushed stone or gravel?		\boxtimes				
D8	Is the deposited silt and grit removed regularly?		\boxtimes				
D9	Is rainwater pumped out from trenches discharged into storm drains via silt system?		\boxtimes				
D10	Are measures taken to prevent the washout of construction materials, soil, silt or debris into any drainage system?		\boxtimes				
D11	Are open stockpiles of construction materials e.g. aggregates and sand on site covered with tarpaulin or similar fabric during rainstorms?	\boxtimes			N.A.		
D12	Are manholes adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage?		\boxtimes				
D13	Are the discharges of surface run-off into foul sewer always prevented?		\boxtimes				
D14	Is a wheel washing bay provided at every site exit?		\boxtimes				
D15	Is the wheel wash overflow directed to silt removal facilities before being discharged to the storm drain?		\boxtimes				
D16	Is the section of construction road between the wheel washing bay and the public road surfaced with crushed stone or coarse gravel?		\boxtimes				
D17	Is wastewater generated from concreting, plastering, internal decoration, cleaning work and other similar activities screened to remove large objects?	\boxtimes			N.A.		
D18	Are the vehicle and plant serving areas, vehicle wash bays and lubrication facilities located under roofed areas?		\boxtimes				
D19	Is leakage or spillages contained and cleaned up immediately?			\boxtimes	Refer to Observation 1		
D20	Does the surface runoff from bunded areas pass through oil/grease traps prior to discharge to the storm water system?	\boxtimes			N.A.		

D21	Are site drainage systems provided over the entire project site with sediment control facilities?		\boxtimes	
D22	Are sedimentation tanks or package treatment systems provided to treat the large amount of sediment-laden wastewater generated from wheel washing, site runoff and construction works?		\boxtimes	
D23	Is the generated wastewater with high concentrations of SS collected to the sedimentation tanks or package treatment systems for proper treatment prior to disposal?		\boxtimes	
D24	Is the treated wastewater reused for vehicle washing, dust suppression and general cleaning?		\boxtimes	
D25	Is the sewage generated from toilets collected using a temporary storage system?		\boxtimes	
D26	Is there any sediment plume observed in nearby watercourses?	\boxtimes		Not observed.
D27	Are slit-grease traps deployed to prevent a direct input of road surface runoff to the marine waters?	\boxtimes		N.A.

Е	Waste / Chemical Management	N/A or Not Observed	Yes	No	Remarks / Photo		
General Waste							
E1	Is the general waste generated on-site stored in enclosed bins or compaction units separately from the construction and chemical wastes?				Refer to Observation 2		
E2	Is the general waste collected properly by using the waste separation facilities for paper, aluminium cans, plastic bottles etc.?		\boxtimes				
E3	Does accumulation of waste avoid?		\boxtimes				
E4	Is waste disposed regularly?		\boxtimes				
<u>Const</u>	ruction Waste						
E5	Are the temporary stockpiles maintained regularly?	\boxtimes			N.A.		
E6	Is the excavated fill material reused for backfilling and reinstatement?		\boxtimes				
E7	Are the C&D materials sorted and recycled on- site?			\boxtimes	Refer to Observation 2		
E8	Is there any contract documents provided to allow and promote the use of recycled aggregates where appropriate?	\boxtimes			Not observed.		
E9	Is the disposal of C&D materials avoided onto any sensitive locations e.g. agricultural lands etc.?	\boxtimes			N.A.		
E10	Are the public fill and C&D waste segregated and stored in different containers or skips to enhance reuse or recycling of materials and their proper disposal?		\boxtimes				
E11	Is the durable formwork or plastic facing for construction works used?	\boxtimes			N.A.		
E12	Do the wooden hoardings avoid to be used?		\times				
E13	Is metal hoarding used to enhance the possibility of recycling?		\boxtimes				
E14	Is the segregation and storage of C&D wastes undertaken in designated are?		\boxtimes				

-					
E15	Are waste storage area properly cleaned and do not cause windblown litter and dust nuisance?		\boxtimes		
E16	Do the excavated materials appear contaminated?			X	
E17	If suspected contaminated, appropriate procedures followed?	\boxtimes			N.A.
<u>Chemi</u>	cal / Fuel Storage Area				
E18	Are the fuel tanks and chemical storage areas provided with locks and sited on sealed areas?		\boxtimes		
E19	Are the storage area enclosed 3 sides by walls/ fence of ≥2m tall and bounded with adequate bund capacity (>110% of largest container) or do the storage area allow storage of 20% of total volume of waste?		\boxtimes		
E20	Are the storage areas labelled and separated (if needed)?		\boxtimes		
E21	Do the storage areas have adequate ventilation and be covered to prevent rainfall entering?		\boxtimes		
E22	Are the containers used for the storage of chemical wastes suitable for the substance that are holding, resist to corrosion, maintained in a good condition, and securely closed?		\boxtimes		
E23	If no specification has been approved by EPD, are container with <450L capacity provided for storage of chemicals waste?		\boxtimes		
Chemi	cal Waste / Waste Oil				
E24	Is chemical waste or waste oil stored and labelled in English and Chinese properly in designated area?		\boxtimes		
E25	Are chemicals and waste oil recycled or disposed properly?		\boxtimes		
E26	Is waste oil collected and stored for recycling or disposal?		\boxtimes		
Record	ds				
E27	Is a licensed waste haulier used for waste collection?		\boxtimes		
E28	Are the records of quantities of wastes generated, recycled and disposed properly kept?		\boxtimes		
E29	For the demolition material/ waste, is the number of loads for each day recorded as appropriate?	\boxtimes			N.A.

F	Landscape and Visual Impacts	N/A or Not Observed	Yes	No	Remarks / Photo
F1	Is the work site confined within site boundaries?		\boxtimes		
F2	Is damage to surrounding areas avoided?		\boxtimes		
F3	Is the hoardings with aesthetic treatment provided and designed to be subtle and camouflaged?		\boxtimes		
F4	Is the temporary landscape treatment provided (such as the provision of temporary landscape planting around the Site office in ornamental pots and application of green roof for Site office)?		\boxtimes		
F5	Are the protective fencing erected along or beyond the perimeter of the tree protection zone of each individual tree?		\square		

G	Environmental Complaint	N/A or Not Observed	Yes	No	Remarks / Photo
G1	Number of Environmental Complaint received from 11/11/2021 to 09/02/2023			\boxtimes	

н	General Housekeeping	N/A or Not Observed	Yes	No	Remarks / Photo
H1	Are potential stagnant pools cleared and mosquito breeding prevented?		\boxtimes		
H2	Are the defined boundaries of working areas identified to prevent loss of vegetation		\boxtimes		

I	Others	N/A or Not Observed	Yes	No	Remarks / Photo
11	Are the portable toilets maintained in a state, which will not deter the workers from utilizing these portable toilets?		\boxtimes		

Follow up action for previous Site Inspection:

- 1. The empty oil drums have been stored in the chemical waste storage area for disposal. (Photo F1)
- 2. Movable noise barrier was provided to the sheet piling machine. (Photo F2)



Observation(s):

- 1. Part of the hoarding is removed on the site. (Photo 1)
- 2. General waste and construction waste are not stored separately. (Photo 2)

Reminder(s):

1. The stockpile of dusty material is not covered entirely. (Photo 3)





Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

- 1. At least 2.4 m of hoarding shall be provided.
- 2. General waste generated on-site shall be stored in enclosed bins or compaction units separately from the construction.
- 3. The Contractor has been reminded to fully cover the stockpile of dusty material.

	Environmental Team Representative:	IEC's Representative:	Contractor's Representative:	Engineer's Representative
Signature:	Yng	/	A.	Cam
Name:	Andy Ng	/	Desmond Ho	Henry Lam SUPD/ COW
Date:	9 February 2023	/	9 February 2023	09-Feb-2023

Environmental Site Inspect	ion Checklist (Rev. 0)

`Inspection Date:	16 February 2023	Inspected By:	Jason Man		
Time:	15:10 – 15:40	Weather Condition:	Fine		
Participants:	Mr K.H Lam (Engineer's Representative); Desmond Ho (Contractor); Jason Man (ET)				

Α	Permits/Licenses	N/A or Not Observed	Yes	No	Remarks / Photo
A1	Are Environmental Permit, license/ other permit displayed at major site exit and vehicle access?		\boxtimes		EP No.: EP-505/2015/A
A2	Are Construction Noise Permits available for inspection/posted at site entrance.		\boxtimes		CNP No: GW-RS0672-22
A3	Is wastewater discharge licence available for inspection?		\boxtimes		
A4	Are trip tickets for chemical waste and construction waste disposal available for inspection?		\boxtimes		
A5	Are relevant licence/permit for disposal of construction waste or excavated materials available for inspection?		\boxtimes		

в	Air Quality	N/A or Not Observed	Yes	No	Remarks / Photo
B1	Is open burning avoided?		\boxtimes		
B2	Are completed earthworks sealed as soon as practicable?		\boxtimes		
B3	Are plant and equipment well maintained (i. e. without black smoke from powered plant)?		\boxtimes		
B4	Any remedial action undertaken?	\boxtimes			N.A.
B5	Observed dust source(s)				
		U Wind eros	sion		
		Vehicle/ E	Equipment	Moveme	nts
		Loading/	unloading	of materia	als
		Others:	Not O	bserved	
B6	Are unpaved areas/ designated roads watered regularly to avoid dust generation?		\boxtimes		
B7	Are dusty materials covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading?			X	Refer to Reminder 1
B8	After removal of stockpile, are the remained dusty materials wetted with water and cleared from surface of roads?	\boxtimes			N.A.
B9	Is the stockpile of dusty materials avoid to be extend beyond the pedestrian barriers, fencing or traffic cones?		\boxtimes		
B10	Are loaded dump trucks covered by impervious sheeting appropriately before leaving the site?		\mathbf{X}		
B11	Are wheel washing facilities with high pressure water jet provided at all site exits if practicable?		\boxtimes		

D (O			1		
B12	Are all vehicles and plant cleaned before they leave the construction site?		\boxtimes		
B13	Are hoarding \geq 2.4m tall provided beside roads or area with public access?		\boxtimes		
D14	area with public access?				
B14	Is the portion of any road leading only to		\boxtimes		
	construction site (within 30m of a vehicle entrance				
DAG	or exit) kept clear of dusty materials?				
B15	Are surfaces where any pneumatic or power-driven		\boxtimes		
	drilling, cutting, polishing or other mechanical				
	breaking operations takes place sprayed with water				
D40	or a dust suppression chemical continuously?				
B16	Is the area involved demolition activities sprayed	\boxtimes			
	with water or a dust suppression chemical				N.A.
	immediately prior to, during and immediately after the activities so as to maintain the entire surface				IN.A.
	wet?				
D17					
B17	Is scaffolding erected around the perimeter of a	\boxtimes			N.A.
B18	building under construction?				
DIO	Are effective dust screens, sheeting or netting provided to enclose the scaffolding from the ground	\boxtimes			
	floor level of the building, or a canopy provided from				N.A.
	the first floor level up to the highest level of the				IN.A.
	scaffolding?				
B19	Is the skip hoist for materials transport enclosed by				
013	impervious sheeting?	\boxtimes			N.A.
B20	Is every stock of more than 20 bags of cement or				
520	dry pulverized fuel ash (PFA) covered entirely by		\boxtimes		
	impervious sheeting or placed in an area sheltered				
	on the top and 3 sides?				
B21	Are the areas of washing facilities and the road				
	section between the washing facilities and the exit		\boxtimes		
	point paved with concrete, bituminous materials or				
	hardcores?				
B22	Are cement or dry PFA delivered in bulk stored in a		\boxtimes		
	closed silo fitted with an audible high-level alarm				
	which is interlocked with the material filling line and				
	no overfilling is allowed?				
B23	Are the activities of loading, unloading, transfer,		\boxtimes		
	handing or storage of bulk cement or dry PFA				
	carried out in a totally enclosed system or facility?				
B24	Is any vent or exhaust fitted with an effective fabric	\boxtimes			N.A.
	filter or equipment air pollution control system?				IN. <i>7</i> 4.
B25	Is the exposed earth properly treated by	\boxtimes			
	compaction, turfing, hydroseeding, vegetation	تك			
	planting or sealing with latex, vinyl, bitumen,				
	shotcrete or other suitable surface stabiliser within				N.A.
	six months after last construction activity on the				
	construction site or part of the construction site				
	where the exposed earth lies?				
B26	Are the worksites wetted with water regularly?			\boxtimes	Refer to
B27	Is generation of dust avoided during loading or				Observation 1
ושט	unloading?		\boxtimes		
B28	Are all trucks loaded to a level within the side and		\boxtimes		
	tail boards?				
B29	Are appropriate speed limit sign displayed?		\boxtimes		
1		1			1

B30	Are designated roads paved?	\boxtimes	
B31	Are site vehicle movements confined to designated roads?	\boxtimes	

с	Noise	N/A or Not Observed	Yes	No	Remarks / Photo	
C1	Is well-maintained plant operated on-site and plant served regularly?		\boxtimes			
C2	Are vehicles and equipment switched off or throttled down while not in use?		\boxtimes			
C3	Is the noise directed away from nearby NSRs?		\boxtimes			
C4	Are the silencers or mufflers properly fitted on construction equipment and maintained regularly?		\boxtimes			
C5	Are mobile and/or noisy plant sited as far away from NSRs as possible and practicable and orientated so that the noise is directed away from nearby NSRs?		\boxtimes			
C6	Are material stockpiles, mobile container officer and other structures utilised to screen noisy activates?	\boxtimes			N.A.	
C7	Is temporary hoarding installed located on the site boundaries between noisy construction activities and NSRs?		\boxtimes			
C8	Are noise barriers (typically density @14kg/m ²) acoustic mat or full enclosure close to noise plants including air compressor, generators and saw etc. provided to protect NSRs?		\boxtimes			
C9	Is the sequencing operation of construction plants where practicable?		\boxtimes			
C10	Is the hoarding maintained properly?		\boxtimes			
C11	Do air compressors have valid noise labels?		\boxtimes			
C12	Are compressor operated with doors closed?		\boxtimes			
C13	QPME used with valid noise labels?		\boxtimes			
C14	Major noise source(s)					
		Traffic				
	Construction activities inside of site					
			ion activiti	es outsid	e of site	
		Others:	N	ot Obser	ved	

Report No. 0063-20230216

Chai Wan Government Complex and Vehicle Depot

D	Water Quality	N/A or Not Observed	Yes	No	Remarks / Photo
Const	ruction Activities				
D1	Are catchpits and perimeter channels constructed in advance of site formation works and earthworks?		\boxtimes		
D2	Is wastewater from temporary site facilities controlled to prevent direct discharge to surface or marine water?		\boxtimes		
D3	Is minimise surface excavation works during rainy seasons (April to September), as possible?	\boxtimes			N.A.
D4	Is the storm drainage directed to storm drains via adequately designed sand/ silt removal facilities e.g. sand traps, silt?		\boxtimes		
D5	Are channels, earth bunds or sandbag barriers provided on site to properly direct stormwater to such silt removal facilities?		\boxtimes		
D6	Are the silt removal facilities, channels and manholes maintained regularly?		\times		
D7	Are the temporary access roads surfaced with crushed stone or gravel?		\boxtimes		
D8	Is the deposited silt and grit removed regularly?		\boxtimes		
D9	Is rainwater pumped out from trenches discharged into storm drains via silt system?		\boxtimes		
D10	Are measures taken to prevent the washout of construction materials, soil, silt or debris into any drainage system?		\boxtimes		
D11	Are open stockpiles of construction materials e.g. aggregates and sand on site covered with tarpaulin or similar fabric during rainstorms?	\boxtimes			N.A.
D12	Are manholes adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage?		\boxtimes		
D13	Are the discharges of surface run-off into foul sewer always prevented?		\boxtimes		
D14	Is a wheel washing bay provided at every site exit?		\boxtimes		
D15	Is the wheel wash overflow directed to silt removal facilities before being discharged to the storm drain?		\boxtimes		
D16	Is the section of construction road between the wheel washing bay and the public road surfaced with crushed stone or coarse gravel?		\boxtimes		
D17	Is wastewater generated from concreting, plastering, internal decoration, cleaning work and other similar activities screened to remove large objects?	\boxtimes			N.A.
D18	Are the vehicle and plant serving areas, vehicle wash bays and lubrication facilities located under roofed areas?		\boxtimes		
D19	Is leakage or spillages contained and cleaned up immediately?		\boxtimes		
D20	Does the surface runoff from bunded areas pass through oil/grease traps prior to discharge to the storm water system?	\boxtimes			N.A.

D21	Are site drainage systems provided over the entire project site with sediment control facilities?		\boxtimes	
D22	Are sedimentation tanks or package treatment systems provided to treat the large amount of sediment-laden wastewater generated from wheel washing, site runoff and construction works?		\boxtimes	
D23	Is the generated wastewater with high concentrations of SS collected to the sedimentation tanks or package treatment systems for proper treatment prior to disposal?		\boxtimes	
D24	Is the treated wastewater reused for vehicle washing, dust suppression and general cleaning?		\boxtimes	
D25	Is the sewage generated from toilets collected using a temporary storage system?		\boxtimes	
D26	Is there any sediment plume observed in nearby watercourses?	\boxtimes		Not observed.
D27	Are slit-grease traps deployed to prevent a direct input of road surface runoff to the marine waters?	\boxtimes		N.A.

Е	Waste / Chemical Management	N/A or Not Observed	Yes	No	Remarks / Photo				
Gener	General Waste								
E1	Is the general waste generated on-site stored in enclosed bins or compaction units separately from the construction and chemical wastes?		\boxtimes						
E2	Is the general waste collected properly by using the waste separation facilities for paper, aluminium cans, plastic bottles etc.?		\boxtimes						
E3	Does accumulation of waste avoid?		\boxtimes						
E4	Is waste disposed regularly?		\boxtimes						
Const	ruction Waste								
E5	Are the temporary stockpiles maintained regularly?	\boxtimes			N.A.				
E6	Is the excavated fill material reused for backfilling and reinstatement?		\boxtimes						
E7	Are the C&D materials sorted and recycled on- site?		\boxtimes						
E8	Is there any contract documents provided to allow and promote the use of recycled aggregates where appropriate?	\boxtimes			Not observed.				
E9	Is the disposal of C&D materials avoided onto any sensitive locations e.g. agricultural lands etc.?	\boxtimes			N.A.				
E10	Are the public fill and C&D waste segregated and stored in different containers or skips to enhance reuse or recycling of materials and their proper disposal?		\boxtimes						
E11	Is the durable formwork or plastic facing for construction works used?	\boxtimes			N.A.				
E12	Do the wooden hoardings avoid to be used?		\boxtimes						
E13	Is metal hoarding used to enhance the possibility of recycling?		\boxtimes						
E14	Is the segregation and storage of C&D wastes undertaken in designated are?		\boxtimes						

E15	Are waste storage area properly cleaned and do not cause windblown litter and dust nuisance?		\boxtimes		
E16	Do the excavated materials appear contaminated?			\boxtimes	
E17	If suspected contaminated, appropriate procedures followed?	\boxtimes			N.A.
<u>Chemi</u>	cal / Fuel Storage Area				
E18	Are the fuel tanks and chemical storage areas provided with locks and sited on sealed areas?		\boxtimes		
E19	Are the storage area enclosed 3 sides by walls/ fence of ≥2m tall and bounded with adequate bund capacity (>110% of largest container) or do the storage area allow storage of 20% of total volume of waste?		\boxtimes		
E20	Are the storage areas labelled and separated (if needed)?		\boxtimes		
E21	Do the storage areas have adequate ventilation and be covered to prevent rainfall entering?		\boxtimes		
E22	Are the containers used for the storage of chemical wastes suitable for the substance that are holding, resist to corrosion, maintained in a good condition, and securely closed?		\boxtimes		
E23	If no specification has been approved by EPD, are container with <450L capacity provided for storage of chemicals waste?		\boxtimes		
Chemi	cal Waste / Waste Oil				
E24	Is chemical waste or waste oil stored and labelled in English and Chinese properly in designated area?		\boxtimes		
E25	Are chemicals and waste oil recycled or disposed properly?		\boxtimes		
E26	Is waste oil collected and stored for recycling or disposal?		\boxtimes		
Record	ls				
E27	Is a licensed waste haulier used for waste collection?		\boxtimes		
E28	Are the records of quantities of wastes generated, recycled and disposed properly kept?		\boxtimes		
E29	For the demolition material/ waste, is the number of loads for each day recorded as appropriate?	\boxtimes			N.A.

F	Landscape and Visual Impacts	N/A or Not Observed	Yes	No	Remarks / Photo
F1	Is the work site confined within site boundaries?		\boxtimes		
F2	Is damage to surrounding areas avoided?		\boxtimes		
F3	Is the hoardings with aesthetic treatment provided and designed to be subtle and camouflaged?		\boxtimes		
F4	Is the temporary landscape treatment provided (such as the provision of temporary landscape planting around the Site office in ornamental pots and application of green roof for Site office)?		\boxtimes		
F5	Are the protective fencing erected along or beyond the perimeter of the tree protection zone of each individual tree?		\boxtimes		

G	Environmental Complaint	N/A or Not Observed	Yes	No	Remarks / Photo
G1	Number of Environmental Complaint received from 11/11/2021 to 16/02/2023			\boxtimes	

н	General Housekeeping	N/A or Not Observed	Yes	No	Remarks / Photo
H1	Are potential stagnant pools cleared and mosquito breeding prevented?		\boxtimes		
H2	Are the defined boundaries of working areas identified to prevent loss of vegetation		\boxtimes		

I	Others	N/A or Not Observed	Yes	No	Remarks / Photo
11	Are the portable toilets maintained in a state, which will not deter the workers from utilizing these portable toilets?		\boxtimes		

Environmental Site Inspection Checklist (Rev. 0)

Follow up action for previous Site Inspection:

- 1. The hoarding has been installed and the Contractor has been reminded to maintain the hoarding properly. (Photo F1)
- 2. The stockpile was removed. (Photo F2 and Photo F3)





Photo F3

Observation(s):

1. The work area was dry and fugitive dust was observed. (Photo 1)

Reminder(s):

1. The Contractor was reminded to fully cover the stockpile of dusty material using impervious sheets after construction work. (Photo 2)



Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

- 1. The Contractor has been recommended to increase the frequency of waste disposal to prevent dust dispersion.
- 2. The Contractor has been reminded to fully cover the stockpile of dusty material after construction work.

	Environmental Team Representative:	IEC's Representative:	Contractor's Representative:	Engineer's Representative
Signature:	\sim	1	And .	Cam
Name:	Jason Man	1	Desmond Ho	Henry Lam SUPD/ COW
Date:	16 February 2023	1	16 February 2023	16-Feb-2023

`Inspection Date:	23 February 2023	Inspected By:	Andy Ng				
Time:	15:15 – 15:50	Weather Condition:	Clear				
Participants: Mr K.H Lam (Engineer's Representative); Desmond Ho (Contractor); Andy Ng (ET)							

Α	Permits/Licenses	N/A or Not Observed	Yes	No	Remarks / Photo
A1	Are Environmental Permit, license/ other permit displayed at major site exit and vehicle access?		\boxtimes		EP No.: EP-505/2015/A
A2	Are Construction Noise Permits available for inspection/posted at site entrance.		\boxtimes		CNP No: GW-RS0672-22
A3	Is wastewater discharge licence available for inspection?		\boxtimes		
A4	Are trip tickets for chemical waste and construction waste disposal available for inspection?		\boxtimes		
A5	Are relevant licence/permit for disposal of construction waste or excavated materials available for inspection?		\boxtimes		

в	Air Quality	N/A or Not Observed	Yes	No	Remarks / Photo	
B1	Is open burning avoided?		\boxtimes			
B2	Are completed earthworks sealed as soon as practicable?		\boxtimes			
B3	Are plant and equipment well maintained (i. e. without black smoke from powered plant)?		\boxtimes			
B4	Any remedial action undertaken?	\boxtimes			N.A.	
B5	Observed dust source(s)					
		U Wind eros	sion			
		Vehicle/ E	Equipment	Moveme	nts	
		Loading/	unloading	of materi	als	
		Others:	Not O	bserved		
B6	Are unpaved areas/ designated roads watered regularly to avoid dust generation?		\boxtimes			
B7	Are dusty materials covered entirely by impervious sheeting or sprayed with water to maintain the entire surface wet and then removed or backfilled or reinstated where practicable within 24 hours of the excavation or unloading?		\boxtimes			
B8	After removal of stockpile, are the remained dusty materials wetted with water and cleared from surface of roads?		\boxtimes			
B9	Is the stockpile of dusty materials avoid to be extend beyond the pedestrian barriers, fencing or traffic cones?		\square			
B10	Are loaded dump trucks covered by impervious sheeting appropriately before leaving the site?		\boxtimes			

B11	Are wheel washing facilities with high pressure		\boxtimes	
D10	water jet provided at all site exits if practicable? Are all vehicles and plant cleaned before they leave			
B12	the construction site?		\boxtimes	
B13	Are hoarding \ge 2.4m tall provided beside roads or			
	area with public access?		\boxtimes	
B14	Is the portion of any road leading only to		\boxtimes	
	construction site (within 30m of a vehicle entrance			
	or exit) kept clear of dusty materials?			
B15	Are surfaces where any pneumatic or power-driven		\boxtimes	
	drilling, cutting, polishing or other mechanical			
	breaking operations takes place sprayed with water			
B16	or a dust suppression chemical continuously? Is the area involved demolition activities sprayed			
ыо	with water or a dust suppression chemical	\boxtimes		
	immediately prior to, during and immediately after			N.A.
	the activities so as to maintain the entire surface			
	wet?			
B17	Is scaffolding erected around the perimeter of a	\boxtimes		N.A.
	building under construction?			N.A.
B18	Are effective dust screens, sheeting or netting	\boxtimes		
	provided to enclose the scaffolding from the ground			
	floor level of the building, or a canopy provided from			N.A.
	the first floor level up to the highest level of the scaffolding?			
B19	Is the skip hoist for materials transport enclosed by			
013	impervious sheeting?	\square		N.A.
B20	Is every stock of more than 20 bags of cement or			
	dry pulverized fuel ash (PFA) covered entirely by		\boxtimes	
	impervious sheeting or placed in an area sheltered			
	on the top and 3 sides?			
B21	Are the areas of washing facilities and the road		\boxtimes	
	section between the washing facilities and the exit			
	point paved with concrete, bituminous materials or			
B22	hardcores? Are cement or dry PFA delivered in bulk stored in a			
DZZ	closed silo fitted with an audible high-level alarm		\boxtimes	
	which is interlocked with the material filling line and			
	no overfilling is allowed?			
B23	Are the activities of loading, unloading, transfer,		\boxtimes	
	handing or storage of bulk cement or dry PFA			
	carried out in a totally enclosed system or facility?			
B24	Is any vent or exhaust fitted with an effective fabric	\boxtimes		N.A.
Doc	filter or equipment air pollution control system?			
B25	Is the exposed earth properly treated by	\boxtimes		
	compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen,			
	shotcrete or other suitable surface stabiliser within			N.A.
	six months after last construction activity on the			
	construction site or part of the construction site			
	where the exposed earth lies?			
B26	Are the worksites wetted with water regularly?		\boxtimes	
B27	Is generation of dust avoided during loading or			
	unloading?		\boxtimes	
B28	Are all trucks loaded to a level within the side and		\boxtimes	
	tail boards?			

B29	Are appropriate speed limit sign displayed?	\boxtimes	
B30	Are designated roads paved?	\boxtimes	
B31	Are site vehicle movements confined to designated roads?	\boxtimes	

С	Noise	N/A or Not Observed	Yes	No	Remarks / Photo		
C1	Is well-maintained plant operated on-site and plant served regularly?		\boxtimes				
C2	Are vehicles and equipment switched off or throttled down while not in use?		\boxtimes				
C3	Is the noise directed away from nearby NSRs?		\boxtimes				
C4	Are the silencers or mufflers properly fitted on construction equipment and maintained regularly?		\boxtimes				
C5	Are mobile and/or noisy plant sited as far away from NSRs as possible and practicable and orientated so that the noise is directed away from nearby NSRs?		\boxtimes				
C6	Are material stockpiles, mobile container officer and other structures utilised to screen noisy activates?	\boxtimes			N.A.		
C7	Is temporary hoarding installed located on the site boundaries between noisy construction activities and NSRs?		\boxtimes				
C8	Are noise barriers (typically density @14kg/m ²) acoustic mat or full enclosure close to noise plants including air compressor, generators and saw etc. provided to protect NSRs?		\boxtimes				
C9	Is the sequencing operation of construction plants where practicable?		\boxtimes				
C10	Is the hoarding maintained properly?		\boxtimes				
C11	Do air compressors have valid noise labels?		\boxtimes				
C12	Are compressor operated with doors closed?		\boxtimes				
C13	QPME used with valid noise labels?		\boxtimes				
C14	Major noise source(s)		1				
		Traffic					
		Construction activities inside of site					
		Construction activities outside of site					
		Others:	N	lot Obser	ved		

D	Water Quality	N/A or Not Observed	Yes	No	Remarks / Photo
Const	ruction Activities				
D1	Are catchpits and perimeter channels constructed in advance of site formation works and earthworks?		\boxtimes		
D2	Is wastewater from temporary site facilities controlled to prevent direct discharge to surface or marine water?		\boxtimes		
D3	Is minimise surface excavation works during rainy seasons (April to September), as possible?	\boxtimes			N.A.
D4	Is the storm drainage directed to storm drains via adequately designed sand/ silt removal facilities e.g. sand traps, silt?		\boxtimes		
D5	Are channels, earth bunds or sandbag barriers provided on site to properly direct stormwater to such silt removal facilities?		\boxtimes		
D6	Are the silt removal facilities, channels and manholes maintained regularly?			\boxtimes	Refer to Reminder 1
D7	Are the temporary access roads surfaced with crushed stone or gravel?		\boxtimes		
D8	Is the deposited silt and grit removed regularly?		\boxtimes		
D9	Is rainwater pumped out from trenches discharged into storm drains via silt system?		\boxtimes		
D10	Are measures taken to prevent the washout of construction materials, soil, silt or debris into any drainage system?			\boxtimes	Refer to Reminder 2
D11	Are open stockpiles of construction materials e.g. aggregates and sand on site covered with tarpaulin or similar fabric during rainstorms?	\boxtimes			N.A.
D12	Are manholes adequately covered and temporarily sealed so as to prevent silt, construction materials or debris from getting into the drainage?		\boxtimes		
D13	Are the discharges of surface run-off into foul sewer always prevented?		\boxtimes		
D14	Is a wheel washing bay provided at every site exit?		\boxtimes		
D15	Is the wheel wash overflow directed to silt removal facilities before being discharged to the storm drain?		\boxtimes		
D16	Is the section of construction road between the wheel washing bay and the public road surfaced with crushed stone or coarse gravel?		\boxtimes		
D17	Is wastewater generated from concreting, plastering, internal decoration, cleaning work and other similar activities screened to remove large objects?	\boxtimes			N.A.
D18	Are the vehicle and plant serving areas, vehicle wash bays and lubrication facilities located under roofed areas?		\boxtimes		
D19	Is leakage or spillages contained and cleaned up immediately?			\boxtimes	Refer to Reminder 2
D20	Does the surface runoff from bunded areas pass through oil/grease traps prior to discharge to the storm water system?	\boxtimes			N.A.

D21	Are site drainage systems provided over the entire project site with sediment control facilities?			\boxtimes	Refer to Reminder 1
D22	Are sedimentation tanks or package treatment systems provided to treat the large amount of sediment-laden wastewater generated from wheel washing, site runoff and construction works?		\boxtimes		
D23	Is the generated wastewater with high concentrations of SS collected to the sedimentation tanks or package treatment systems for proper treatment prior to disposal?		\boxtimes		
D24	Is the treated wastewater reused for vehicle washing, dust suppression and general cleaning?		\boxtimes		
D25	Is the sewage generated from toilets collected using a temporary storage system?		\boxtimes		
D26	Is there any sediment plume observed in nearby watercourses?	\boxtimes			Not observed.
D27	Are slit-grease traps deployed to prevent a direct input of road surface runoff to the marine waters?	\boxtimes			N.A.

Е	Waste / Chemical Management	N/A or Not Observed	Yes	No	Remarks / Photo
Genera	al Waste				
E1	Is the general waste generated on-site stored in enclosed bins or compaction units separately from the construction and chemical wastes?		\boxtimes		
E2	Is the general waste collected properly by using the waste separation facilities for paper, aluminium cans, plastic bottles etc.?		\boxtimes		
E3	Does accumulation of waste avoid?		\boxtimes		
E4	Is waste disposed regularly?		\boxtimes		
<u>Constr</u>	uction Waste				
E5	Are the temporary stockpiles maintained regularly?	\boxtimes			N.A.
E6	Is the excavated fill material reused for backfilling and reinstatement?		\boxtimes		
E7	Are the C&D materials sorted and recycled on- site?		\boxtimes		
E8	Is there any contract documents provided to allow and promote the use of recycled aggregates where appropriate?	\boxtimes			Not observed.
E9	Is the disposal of C&D materials avoided onto any sensitive locations e.g. agricultural lands etc.?	\boxtimes			N.A.
E10	Are the public fill and C&D waste segregated and stored in different containers or skips to enhance reuse or recycling of materials and their proper disposal?		\boxtimes		
E11	Is the durable formwork or plastic facing for construction works used?	\boxtimes			N.A.
E12	Do the wooden hoardings avoid to be used?		\boxtimes		
E13	Is metal hoarding used to enhance the possibility of recycling?		\boxtimes		
E14	Is the segregation and storage of C&D wastes undertaken in designated are?		\boxtimes		

r					
E15	Are waste storage area properly cleaned and do not cause windblown litter and dust nuisance?		\boxtimes		
E16	Do the excavated materials appear contaminated?			\boxtimes	
E17	If suspected contaminated, appropriate procedures followed?	\boxtimes			N.A.
Chemi	cal / Fuel Storage Area				
E18	Are the fuel tanks and chemical storage areas provided with locks and sited on sealed areas?		\boxtimes		
E19	Are the storage area enclosed 3 sides by walls/ fence of ≥2m tall and bounded with adequate bund capacity (>110% of largest container) or do the storage area allow storage of 20% of total volume of waste?		\boxtimes		
E20	Are the storage areas labelled and separated (if needed)?		\boxtimes		
E21	Do the storage areas have adequate ventilation and be covered to prevent rainfall entering?		\boxtimes		
E22	Are the containers used for the storage of chemical wastes suitable for the substance that are holding, resist to corrosion, maintained in a good condition, and securely closed?		\boxtimes		
E23	If no specification has been approved by EPD, are container with <450L capacity provided for storage of chemicals waste?		\boxtimes		
Chemi	cal Waste / Waste Oil				
E24	Is chemical waste or waste oil stored and labelled in English and Chinese properly in designated area?		\boxtimes		
E25	Are chemicals and waste oil recycled or disposed properly?		\boxtimes		
E26	Is waste oil collected and stored for recycling or disposal?			\boxtimes	Refer to Observation 1
Record	<u></u>				
E27	Is a licensed waste haulier used for waste collection?		\boxtimes		
E28	Are the records of quantities of wastes generated, recycled and disposed properly kept?		\boxtimes		
E29	For the demolition material/ waste, is the number of loads for each day recorded as appropriate?	\boxtimes			N.A.

F	Landscape and Visual Impacts	N/A or Not Observed	Yes	No	Remarks / Photo
F1	Is the work site confined within site boundaries?		\boxtimes		
F2	Is damage to surrounding areas avoided?		\boxtimes		
F3	Is the hoardings with aesthetic treatment provided and designed to be subtle and camouflaged?		\boxtimes		
F4	Is the temporary landscape treatment provided (such as the provision of temporary landscape planting around the Site office in ornamental pots and application of green roof for Site office)?		\boxtimes		
F5	Are the protective fencing erected along or beyond the perimeter of the tree protection zone of each individual tree?		\boxtimes		

G	Environmental Complaint	N/A or Not Observed	Yes	No	Remarks / Photo
G1	Number of Environmental Complaint received from 11/11/2021 to 23/02/2023			\boxtimes	

н	General Housekeeping	N/A or Not Observed	Yes	No	Remarks / Photo
H1	Are potential stagnant pools cleared and mosquito breeding prevented?		\boxtimes		
H2	Are the defined boundaries of working areas identified to prevent loss of vegetation		\boxtimes		

I	Others	N/A or Not Observed	Yes	No	Remarks / Photo
11	Are the portable toilets maintained in a state, which will not deter the workers from utilizing these portable toilets?		\boxtimes		

Environmental Site Inspection Checklist (Rev. 0)

Follow up action for previous Site Inspection:

- 1. The Contractor has scheduled watering for the site. (Photo F1)
- 2. The stockpile was removed. (Photo F2)



Observation(s):

1. Oil stains are observed near the GI machine. (Photo 1)

Reminder(s):

- 1. The Contractor has been reminded to ensure wastewater treatment facilities functioning properly. (Photo 2)
- 2. The Contractor has been reminded to cover holes at the bottom of barriers to prevent leakage of run-off. (Photo 3)



Environmental Site Inspection Checklist (Rev. 0)

Corrective Actions – Mitigation Measures Implemented or Proposed (if any):

- 1. Oil stain shall be cleared and disposed of as chemical waste.
- 2. The wastewater treatment facility shall operate properly for the upcoming wet season.
- 3. The Contractor has been recommended to place sandbags at the bottom of the barriers to prevent any leakage outside the site boundary.

	Environmental Team Representative:	IEC's Representative:	Contractor's Representative:	Engineer's Representative
Signature:	Yng	/	A.	Can
Name:	Andy Ng	/	Desmond Ho	Henry Lam SUPD/COW
Date:	23 February 2023	/	23 February 2023	23-Feb2023

Appendix 10

2023	Marc	ch				
MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
27	28	01	02	03	04	05
06	07 Noise Monitoring (NM1, NM2b and NM3)	08	09	10	11	12
13	14 Noise Monitoring (NM1, NM2b and NM3)	15	16	17	18	19
20	21 Noise Monitoring (NM1, NM2b and NM3)	22	23	24	25	26
27	28 Noise Monitoring (NM1, NM2b and NM3)	29	30	31	01	02
03	04	Notes: The schedule is so etc.).	ubject to change du	e to unforeseeable	e circumstances (e.g. a	adverse weather,

Appendix 11

There was no Notification of Environmental Quality Limits Exceedance in the reporting month.

Prepared by:

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