


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

9th Monthly EM&A Report (July 2022)

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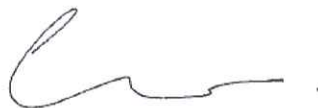


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9 August 2022

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10 August 2022

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

9th Monthly EM&A Report
Yau Lee Construction Co, Ltd

2022-08-08

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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 9th Monthly EM&A Report presents the EM&A works conducted from 1 July 2022 to 31 July 2022 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:

-
- Pilling work
 - Hoarding erection
 - Tree protection works
-

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 04, 14, 21 and 28 July 2022. The joint environmental site inspection was carried out by the representatives of the Engineer's Representative (ER), the Contractor, IEC and the ET on 04 July 2022. 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 15 July 2022. No special findings were identified during the inspection.

Future Key Issues

Works to be undertaken in the next month include:

-
- Tree protection works

 - Piling works

 - Hoarding erection

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 ninth EM&A report which summarises the impact monitoring results and audit findings for the EM&A programme during the reporting period from 01 July 2022 to 31 July 2022.

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

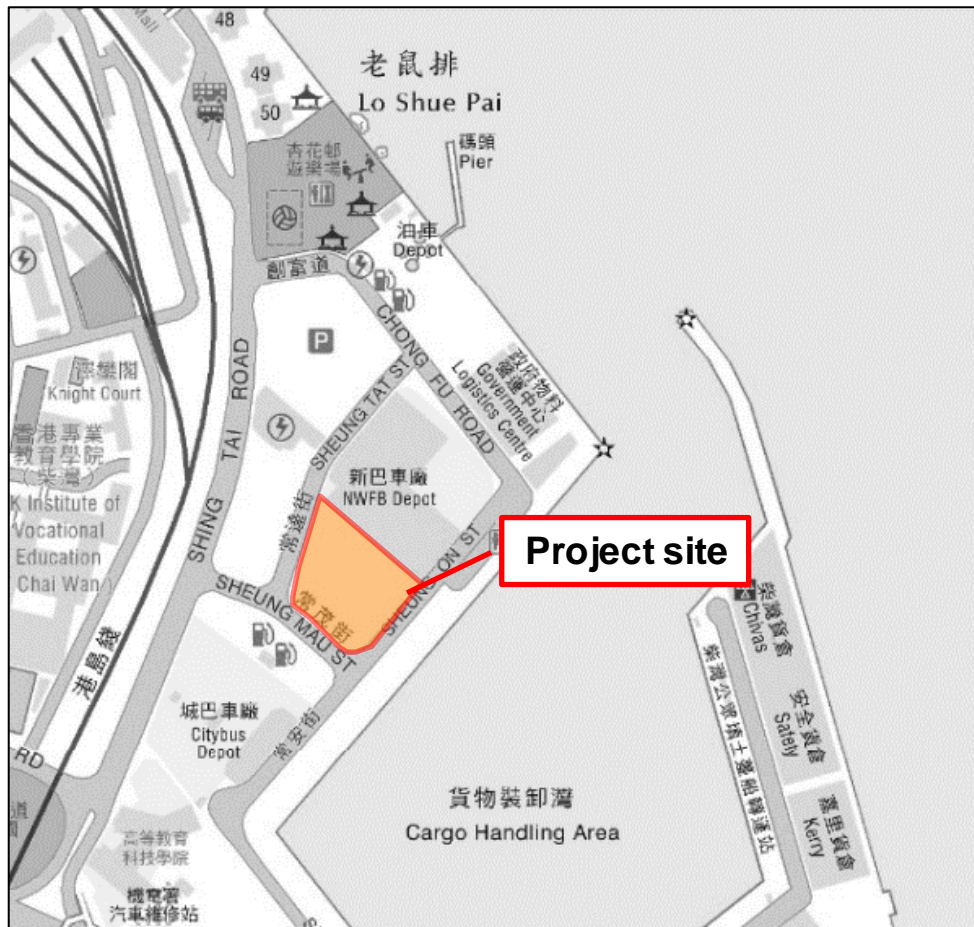
2.1.1 On 5 October 2015, the Environment Impact Assessment (EIA) for the proposed “Chai Wan Government Complex and Vehicle Depot” (AEIAR-191/2015, hereafter referred to as “the Project”) was approved and an Environmental Permit (EP) (EP-505/2015) for the construction of the Project was issued. The latest 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 |
|------------------------------------|
| - Hoarding erection |
| - Pilling work |
| - Tree protection works |

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**.

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

| 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-RS0245-22 | 13 October 2022 | Approved on 14 April 2022 |
| Effluent Discharge License under Water Pollution Control Ordinance | WT00038924-2021 | 30 September 2026 | Approved on 9 December 2021 |

3 Environmental Monitoring Requirements

3.1 Noise 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**.

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

| 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 | - |

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.

Table 3-2 Noise Monitoring Parameters, Period and Frequency

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

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 meters 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**.

Table 3-3 Noise Monitoring Equipment

| Monitoring Station | Monitoring Equipment (Sound Level Meter and Calibrator) |
|--------------------|--|
| NM1 | Sound Level Meter: Rion NL 52(s/n:00131627) and (s/n:01010406) |
| NM2b | Calibrator: Larson Davis Cal 200(s/n: 11333) |
| NM3 | |

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

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

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

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 will be 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: Road traffic noise, railway noise, Yau Lee Site and Noise from other construction site.
- NM2b: Road traffic noise and Yau Lee Site.
- NM3: Road traffic noise, 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

In the reporting period, baseline corrections were made on 5 July 2022 at NM2b.

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 4.28 tonnes of general refuse and 1000 litres of chemical waste were 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 6759.07 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 04, 14, 21 and 28 July 2022. The joint environmental site inspection was carried out by the representatives of the Engineer's Representative (ER), the Contractor, IEC and the ET on 04 July 2022. 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:

04 July 2022

- The generator was observed without noise barriers. Noise barriers shall be provided to the generators within the site according to CNMP.

14 July 2022

- The generators were observed without noise barriers. Noise barriers shall be provided to the generators within the site according to CNMP.
- The work area appeared dry and fugitive dust was observed. The Contractor was reminded to increase the frequency of watering for the work area when necessary to avoid dust emission.
- The QPME label on the mobile crane was expired. The Contractor was reminded to renew the QPME label.

21 July 2022

- The public road was covered with silt. The Contractor shall clean up the public road. Vehicle washing shall be implemented at every exits.
- The work area appeared dry and fugitive dust was observed. The Contractor was reminded to increase the frequency of watering for the work area when necessary to avoid dust emission.
- The generators were observed without noise barriers. Noise barriers shall be provided to the generators within the site according to CNMP.
- Oil stains were observed under the machines. Oil stains shall be cleared and disposed of as chemical waste.

28 July 2022

- The generators were observed without noise barriers. Noise barriers shall be provided to the generators within the site according to CNMP.
- Oil stains were observed under the machines. Oil stains shall be cleared and disposed of as chemical waste.
- Fuel containers were observed without drip trays. Drip trays shall be provided to the fuel containers.

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:

- Tree protection works
- Piling works
- Hoarding erection

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).

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

| Monitoring Station | EIA Predicted Construction Noise Levels, dB(A) | Baseline Noise Levels, dB(A) | Noise Monitoring Results, dB(A) | |
|--------------------|--|------------------------------|-----------------------------------|---------------|
| | | | Leq _(30mins) , Average | Range |
| NM1 | 62 | 65.1 | 64.8 | 64-66 |
| NM2b | 69 | 73.4 | 72.5(70*) | 70-74(64-73*) |
| NM3 | 66 | 69.8 | 69.8 | 69-70 |

Note: *Baseline corrections were carried out as the measured noise levels exceeded the limit noise levels and they were higher than the baseline levels for NM2b. The corrected noise levels which solely represent the noise levels of Construction works are lower than the noise criteria. As such the EAP was not triggered. Details are mentioned in Section 5.1.3 and summarised in Appendix 7.

- 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 except NM2b. However, a baseline correction is made for NM2b and the corrected noise levels are similar to predicted construction noise level in the EIA report. 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 04, 14, 21 and 28 July 2022. 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 15 July 2022. 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

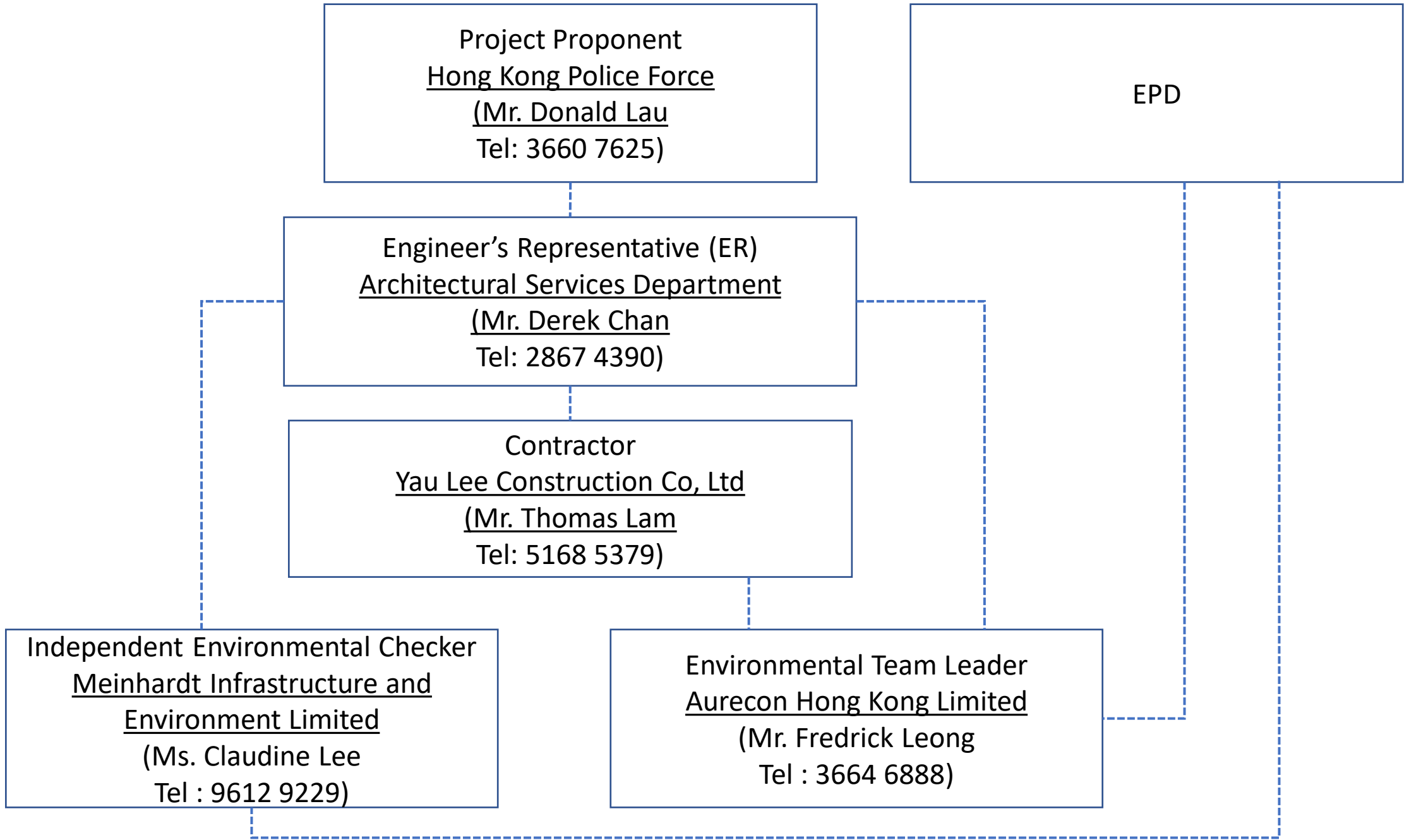
As of 29 July 2022

| ID | Task Name | Duration | Start | Finish | Predecessor | Successor | Task Calendar | % Complete | 2022 | Jul M14 | Aug M15 | Sep M16 | Oct M17 |
|----|---|-----------|--------------|--------------|--------------|--------------|---------------|------------|------|---------|---------|---------|---------|
| 1 | Contract Date | 0 days | Thu 24/6/21 | Thu 24/6/21 | | | Calendar day | 100% | | | | | |
| 2 | Contract Period | 1311 days | Mon 19/7/21 | Tue 18/2/25 | | | Calendar day | 0% | | | | | |
| 3 | Starting Date | 0 days | Mon 19/7/21 | Mon 19/7/21 | | 4SS,5SS+ | Calendar day | 100% | | | | | |
| 4 | Access Date | 0 days | Mon 19/7/21 | Mon 19/7/21 | 3SS | | Calendar day | 100% | | | | | |
| 5 | Contract Period (945 days after starting date) | 0 days | Mon 19/2/24 | Mon 19/2/24 | 3SS+946 c | 6SS+365 | Calendar day | 0% | | | | | |
| 6 | Defects Date | 0 days | Tue 18/2/25 | Tue 18/2/25 | 5SS+365 d | | Calendar day | 0% | | | | | |
| 7 | Major Submission Other than AIP/DDA | 306 days | Tue 5/10/21 | Sat 6/8/22 | | | Calendar day | 82% | | | | | |
| 8 | Submission for Environmental Permit to EPD | 77 days | Wed 27/10/21 | Tue 11/1/22 | | | Calendar day | 100% | | | | | |
| 15 | Traffic Impact Assessment (TIA) | 90 days | Tue 5/10/21 | Sun 2/1/22 | | | Calendar day | 100% | | | | | |
| 19 | Construction Traffic Impact Assessment (CTIA) | 90 days | Tue 5/10/21 | Sun 2/1/22 | | | Calendar day | 100% | | | | | |
| 23 | Submission to HKE for Transformer Room Layout | 129 days | Wed 20/10/21 | Fri 25/2/22 | | | Calendar day | 100% | | | | | |
| 28 | Submission of GBP to Government Departments | 142 days | Tue 16/11/21 | Wed 6/4/22 | | | Calendar day | 81% | | | | | |
| 29 | 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% | | | | | |
| 30 | Comment from DLO, FSD, PlanD, HyD and TD (done on 8/12/2021) | 30 days | Wed 17/11/21 | Thu 16/12/21 | | | Calendar day | 100% | | | | | |
| 31 | Resubmission DLO, FSD, PlanD, HyD and TD (done on 7/3/22) | 1 day | Mon 7/3/22 | Mon 7/3/22 | | 32 | Calendar day | 100% | | | | | |
| 32 | Approval/Comment from DLO, FSD, PlanD, HyD and TD | 30 days | Tue 8/3/22 | Wed 6/4/22 | 31 | | Calendar day | 60% | | | | | |
| 33 | BEAM Plus Project Assessment Process | 230 days | Mon 20/12/21 | Sat 6/8/22 | | | Calendar day | 37% | | | | | |
| 34 | BEAM Registration | 3 days | Mon 20/12/21 | Wed 22/12/21 | | | Calendar day | 100% | | | | | |
| 35 | Acknowledge letter from HKGBC (done on 21/12/2021) | 0 days | Wed 5/1/22 | Wed 5/1/22 | | | Calendar day | 100% | | | | | |
| 36 | 1st PA submission (done on 7/2/2022) | 1 day | Mon 31/1/22 | Mon 31/1/22 | | 37 | Calendar day | 100% | | | | | |
| 37 | Receive BSL 1st comment (done on 2/3/2022) | 30 days | Tue 1/2/22 | Wed 2/3/22 | 36 | 38FS+96 c | Calendar day | 100% | | | | | |
| 38 | 2nd PA submission (done on 7/6/2022) | 1 day | Tue 7/6/22 | Tue 7/6/22 | 37FS+96 d | 39 | Calendar day | 100% | | | | | |
| 39 | Receive BSL 2nd comment | 60 days | Wed 8/6/22 | Sat 6/8/22 | 38 | | Calendar day | 0% | | | | | |
| 40 | Construction | 500 days | Mon 23/8/21 | Wed 4/1/23 | | | Calendar day | 59% | | | | | |
| 41 | Site Mobilization and Preparation | 408 days | Wed 15/9/21 | Thu 27/10/22 | | | Calendar day | 54% | | | | | |
| 42 | Set up monitoring checkpoints (done on 29/10/21) | 45 days | Wed 15/9/21 | Fri 29/10/21 | | | Calendar day | 100% | | | | | |
| 43 | Ground Investigation Works (done on 23/10/21) | 30 days | Wed 15/9/21 | Thu 14/10/21 | | | Calendar day | 100% | | | | | |
| 44 | Set up revised hoarding | 120 days | Thu 30/6/22 | Thu 27/10/22 | | | Calendar day | 25% | | | | | |
| 45 | Phase 1 (started on 4/7/2022) | 60 days | Thu 30/6/22 | Sun 28/8/22 | | 46,53SF-1 | Calendar day | 50% | | | | | |
| 46 | Phase 2 | 60 days | Mon 29/8/22 | Thu 27/10/22 | 45 | | Calendar day | 0% | | | | | |
| 47 | Tree Removal and Preservation | 296 days | Mon 23/8/21 | Wed 15/6/22 | | | Calendar day | 100% | | | | | |
| 48 | Submission of Initial Tree Survey Report (done on 5/10/21) | 43 days | Mon 23/8/21 | Mon 4/10/21 | | 49 | Calendar day | 100% | | | | | |
| 49 | Acceptance of Initial Tree Survey Report (rev.3 for comment on 29/10/21) | 28 days | Tue 5/10/21 | Mon 1/11/21 | 48 | | Calendar day | 100% | | | | | |
| 50 | Submission of method statement for tree removal and protection (done to ArchSD on 5/10/21 for tree removal, done to Urbis for tree protection on 6/10/21) | 43 days | Mon 23/8/21 | Mon 4/10/21 | | 51 | Calendar day | 100% | | | | | |
| 51 | Acceptance of method statement for tree removal and protection (done on 1/11/2021) | 28 days | Tue 5/10/21 | Mon 1/11/21 | 50 | 52 | Calendar day | 100% | | | | | |
| 52 | Tree removal works (within site area) (done on 4/11/2021) | 14 days | Tue 2/11/21 | Mon 15/11/21 | 51 | | Calendar day | 100% | | | | | |
| 53 | Tree removal and protection works (outside site area) (done on 15/6/2022) | 14 days | Wed 1/6/22 | Wed 15/6/22 | 45SF-15 days | | Calendar day | 100% | | | | | |
| 54 | Structural Works | 429 days | Tue 2/11/21 | Wed 4/1/23 | | | Calendar day | 54% | | | | | |
| 55 | Piling Works | 429 days | Tue 2/11/21 | Wed 4/1/23 | | | Calendar day | 54% | | | | | |
| 56 | Zone A & B | 429 days | Tue 2/11/21 | Wed 4/1/23 | | | Calendar day | 61% | | | | | |
| 57 | Pre-drilling (Zone A & B) (started on 2/11/2021, done on 24/3/2022) | 143 days | Tue 2/11/21 | Thu 24/3/22 | | 59SS+41 days | Calendar day | 100% | | | | | |
| 58 | Re-predrill due to unforeseen ground conditions (21 nos.) (started on 7/3/2022, done on 13/5/2022) | 55 days | Mon 7/3/22 | Sat 30/4/22 | | | Calendar day | 100% | | | | | |
| 59 | Piling works (Zone A & B) (started on 13/12/2021) | 353 days | Mon 13/12/21 | Wed 30/11/22 | 57SS+41 c | 9SF-30 d | Calendar day | 55% | | | | | |
| 60 | Piling test | 90 days | Fri 7/10/22 | Wed 4/1/23 | 59FS-55 da | | Calendar day | 0% | | | | | |
| 61 | Substructure Works | 90 days | Thu 15/9/22 | Tue 13/12/22 | | | Calendar day | 0% | | | | | |
| 62 | Zone A | 90 days | Thu 15/9/22 | Tue 13/12/22 | | | Calendar day | 0% | | | | | |
| 63 | Sheet pile installation | 90 days | Thu 15/9/22 | Tue 13/12/22 | | | Calendar day | 0% | | | | | |
| 64 | Off-Site Mock Up | 178 days | Wed 6/4/22 | Fri 30/9/22 | | | Calendar day | 41% | | | | | |
| 65 | Setting out of mock up | 7 days | Wed 6/4/22 | Tue 12/4/22 | | 66 | Calendar day | 100% | | | | | |
| 66 | Erection of steel frame of mock up | 25 days | Wed 13/4/22 | Sat 7/5/22 | 65 | 67 | Calendar day | 100% | | | | | |
| 67 | Erection of timber panel | 14 days | Sun 8/5/22 | Sat 21/5/22 | 66 | 68FS+54 c | Calendar day | 100% | | | | | |
| 68 | Interior finishing work (started on 27/7/2022) | 48 days | Fri 15/7/22 | Wed 31/8/22 | 67FS+54 d | 69FS-7 da | Calendar day | 16% | | | | | |
| 69 | Project Manager and Users' inspection of off-site mock up | 14 days | Thu 25/8/22 | Wed 7/9/22 | 68FS-7 day | 70 | Calendar day | 0% | | | | | |
| 70 | Fine-Tune of off-site mock up | 22 days | Thu 8/9/22 | Thu 29/9/22 | 69 | 71 | Calendar day | 0% | | | | | |
| 71 | PQDVC Workstage 3b Presentation | 1 day | Fri 30/9/22 | Fri 30/9/22 | 70 | | Calendar day | 0% | | | | | |



Task █ Critical Task █ Milestone ◆ Summary ▶ Progress █ Manual Progress █

Appendix 2



Key: - - - - Line of Communication

Appendix 3

| 2022 | | July | | | | |
|--------|--|--|----------|--------|----------|--------|
| MONDAY | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY | SATURDAY | SUNDAY |
| 27 | 28 | 29 | 30 | 01 | 02 | 03 |
| 04 | 05 Noise Monitoring (NM1, NM2b and NM3) | 06 | 07 | 08 | 09 | 10 |
| 11 | 12 Noise Monitoring (NM1, NM2b and NM3) | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 Noise Monitoring (NM1, NM2b and NM3) | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 Noise Monitoring (NM1, NM2b and NM3) | 27 | 28 | 29 | 30 | 31 |
| 01 | 02 | Notes: The schedule is subject to change due to unforeseeable circumstances (e.g. adverse weather, etc.). | | | | |

Appendix 4



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 Receipt / 收件日期 : 2 June 2022

Description / 儀器名稱 : Precision Acoustic Calibrator
Manufacturer / 製造商 : LARSON DAVIS
Model No. / 型號 : CAL200
Serial No. / 編號 : 11333
Supplied By / 委託者 : Envirotech Services Co.
Room 712, 7/F, My Loft, 9 Hoi Wing Road, Tuen Mun,
New Territories, Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 : $(23 \pm 2)^{\circ}\text{C}$
Line Voltage / 電壓 : ---

Relative Humidity / 相對濕度 : $(50 \pm 25)\%$

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 18 June 2022

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.
The results do not exceed manufacturer's specification.
The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Agilent Technologies / Keysight Technologies
- Fluke Everett Service Center, USA

Tested By
測試

:

H T Wong
Assistant Engineer

Certified By
核證

:

K C Lee
Engineer

Date of Issue
簽發日期

:

20 June 2022

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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Certificate of Calibration

校正證書

Certificate No. : C223338

證書編號

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

| <u>Equipment ID</u> | <u>Description</u> | <u>Certificate No.</u> |
|---------------------|-----------------------------------|------------------------|
| CL130 | Universal Counter | C213954 |
| CL281 | Multifunction Acoustic Calibrator | AV210017 |
| TST150A | Measuring Amplifier | C221705 |

- Test procedure : MA100N.

- Results :

5.1 Sound Level Accuracy

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

5.2 Frequency Accuracy

| UUT Nominal Value (kHz) | Measured Value (kHz) | Mfr's Spec. | Uncertainty of Measured Value (Hz) |
|----------------------------|-------------------------|----------------|---------------------------------------|
| 1 | 1.000 | 1 kHz ± 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.

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室所書面批准。

Certificate of Calibration

校正證書

Certificate No. : C215720
證書編號

- 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.
- Self-calibration using the internal standard (After Adjustment) was performed before the test 6.1.1.2 to 6.3.2.
- The results presented are the mean of 3 measurements at each calibration point.
- Test equipment :

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

- Test procedure : MA101N.

- Results :

- 6.1 Sound Pressure Level

- 6.1.1 Reference Sound Pressure Level

- 6.1.1.1 Before Adjustment

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

* Out of IEC 61672 Class 1 Spec.

- 6.1.1.2 After Adjustment

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

- 6.1.2 Linearity

| UUT Setting | | | | Applied Value | | UUT Reading (dB) |
|-------------|----------------|---------------------|----------------|---------------|-------------|------------------|
| Range (dB) | Function | Frequency Weighting | Time Weighting | Level (dB) | Freq. (kHz) | |
| 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. : ± 0.6 dB per 10 dB step and ± 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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Certificate of Calibration

校正證書

Certificate No. : C215720

證書編號

6.2 Time Weighting

| UUT Setting | | | | Applied Value | | UUT Reading (dB) | IEC 61672 Class 1 Spec. (dB) |
|-------------|----------------|---------------------|----------------|---------------|-------------|------------------|------------------------------|
| Range (dB) | Function | Frequency Weighting | Time Weighting | Level (dB) | Freq. (kHz) | | |
| 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 Reading (dB) | IEC 61672 Class 1 Spec. (dB) |
|-------------|----------------|---------------------|----------------|---------------|--------|------------------|------------------------------|
| Range (dB) | Function | Frequency Weighting | Time Weighting | Level (dB) | Freq. | | |
| 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 |
| | | | | | 500 Hz | 90.8 | -3.2 ± 1.4 |
| | | | | | 1 kHz | 94.0 | Ref. |
| | | | | | 2 kHz | 95.3 | +1.2 ± 1.6 |
| | | | | | 4 kHz | 95.1 | +1.0 ± 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 Reading (dB) | IEC 61672 Class 1 Spec. (dB) |
|-------------|----------------|---------------------|----------------|---------------|--------|------------------|------------------------------|
| Range (dB) | Function | Frequency Weighting | Time Weighting | Level (dB) | Freq. | | |
| 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 |
| | | | | | 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.

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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

- Uncertainties of Applied Value :

| | | |
|--------|------------------|--------------------------|
| 94 dB | : 63 Hz - 125 Hz | : ± 0.35 dB |
| | 250 Hz - 500 Hz | : ± 0.30 dB |
| | 1 kHz | : ± 0.20 dB |
| | 2 kHz - 4 kHz | : ± 0.35 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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輝創工程有限公司

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 (Job No. / 序引編號 : IC22-1069)

Date of Receipt / 收件日期 : 2 June 2022

Description / 儀器名稱 : Sound Level Meter

Manufacturer / 製造商 : Rion

Model No. / 型號 : NL-52

Serial No. / 編號 : 00131627

Supplied By / 委託者 : Envirotech Services Co.

Room 712, 7/F, My Loft, 9 Hoi Wing Road, Tuen Mun,
New Territories, Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 : (23 ± 2)°C

Relative Humidity / 相對濕度 : (50 ± 25)%

Line Voltage / 電壓 : ---

TEST SPECIFICATIONS / 測試規範

Calibration check

DATE OF TEST / 測試日期 : 18 June 2022

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.

The results do not exceed manufacturer's specification.

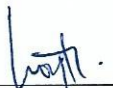
The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Agilent Technologies / Keysight Technologies
- Fluke Everett Service Center, USA

Tested By

測試



H T Wong
Assistant Engineer

Certified By

核證



K C Lee
Engineer

Date of Issue

簽發日期

20 June 2022

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

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

輝創工程有限公司 – 校正及檢測實驗室

c/o 香港新界屯門興安里一號四樓

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

Certificate of Calibration

校正證書

Certificate No. : C223340

證書編號

- 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.
- Self-calibration was performed before the test.
- The results presented are the mean of 3 measurements at each calibration point.
- Test equipment :

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

- Test procedure : MA101N.

- Results :

- 6.1 Sound Pressure Level

- 6.1.1 Reference Sound Pressure Level

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

- 6.1.2 Linearity

| UUT Setting | | | | Applied Value | | UUT Reading (dB) |
|-------------|----------------|---------------------|----------------|---------------|-------------|------------------|
| Range (dB) | Function | Frequency Weighting | Time Weighting | Level (dB) | Freq. (kHz) | |
| 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. : ± 0.6 dB per 10 dB step and ± 1.1 dB for overall different.

- 6.2 Time Weighting

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

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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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 | | | | Applied Value | | UUT Reading (dB) | IEC 61672 Class 1 Spec. (dB) |
|-------------|----------------|---------------------|----------------|---------------|--------|------------------|------------------------------|
| Range (dB) | Function | Frequency Weighting | Time Weighting | Level (dB) | Freq. | | |
| 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 ± 1.6 |
| | | | | | 4 kHz | 95.0 | +1.0 ± 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

| UUT Setting | | | | Applied Value | | UUT Reading (dB) | IEC 61672 Class 1 Spec. (dB) |
|-------------|----------------|---------------------|----------------|---------------|--------|------------------|------------------------------|
| Range (dB) | Function | Frequency Weighting | Time Weighting | Level (dB) | Freq. | | |
| 30 - 130 | L _C | C | Fast | 94.00 | 63 Hz | 93.1 | -0.8 ± 1.5 |
| | | | | | 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 | -0.2 ± 1.6 |
| | | | | | 4 kHz | 93.2 | -0.8 ± 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.

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室所書面批准。

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 |
| | 250 Hz - 500 Hz | : ± 0.30 dB |
| | 1 kHz | : ± 0.20 dB |
| | 2 kHz - 4 kHz | : ± 0.35 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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Certificate of Calibration

校正證書

Certificate No. : C215720
證書編號

ITEM TESTED / 送檢項目 (Job No. / 序引編號 : IC21-1859) Date of Receipt / 收件日期 : 6 September 2021

Description / 儀器名稱 : Sound Level Meter
Manufacturer / 製造商 : Rion
Model No. / 型號 : NL-52
Serial No. / 編號 : 01010406
Supplied By / 委託者 : Envirotech Services Co.
Room 113, 1/F, My Loft, 9 Hoi Wing Road, Tuen Mun,
New Territories, Hong Kong

TEST CONDITIONS / 測試條件

Temperature / 溫度 : $(23 \pm 2)^{\circ}\text{C}$ Relative Humidity / 相對濕度 : $(50 \pm 25)\%$
Line Voltage / 電壓 : ---

TEST SPECIFICATIONS / 測試規範

Calibration

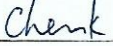
DATE OF TEST / 測試日期 : 23 September 2021

TEST RESULTS / 測試結果

The results apply to the particular unit-under-test only.
The results do not exceed manufacturer's specification. (after adjustment)
The results are detailed in the subsequent page(s).

The test equipment used for calibration are traceable to National Standards via :

- The Government of The Hong Kong Special Administrative Region Standard & Calibration Laboratory
- Agilent Technologies / Keysight Technologies
- Fluke Everett Service Center, USA

Tested By : 
測試 : K P Cheuk
Project Engineer

Certified By : 
核證 : K C Lee
Engineer

Date of Issue : 24 September 2021
簽發日期

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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Certificate of Calibration

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Certificate No. : C215720
證書編號

- 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.
- Self-calibration using the internal standard (After Adjustment) was performed before the test 6.1.1.2 to 6.3.2.
- The results presented are the mean of 3 measurements at each calibration point.
- Test equipment :

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

- Test procedure : MA101N.

- Results :

- 6.1 Sound Pressure Level

- 6.1.1 Reference Sound Pressure Level

- 6.1.1.1 Before Adjustment

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

* Out of IEC 61672 Class 1 Spec.

- 6.1.1.2 After Adjustment

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

- 6.1.2 Linearity

| UUT Setting | | | | Applied Value | | UUT Reading (dB) |
|-------------|----------------|---------------------|----------------|---------------|-------------|------------------|
| Range (dB) | Function | Frequency Weighting | Time Weighting | Level (dB) | Freq. (kHz) | |
| 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. : ± 0.6 dB per 10 dB step and ± 1.1 dB for overall different.

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Certificate of Calibration

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Certificate No. : C215720

證書編號

6.2 Time Weighting

| UUT Setting | | | | Applied Value | | UUT Reading (dB) | IEC 61672 Class 1 Spec. (dB) |
|-------------|----------------|---------------------|----------------|---------------|-------------|------------------|------------------------------|
| Range (dB) | Function | Frequency Weighting | Time Weighting | Level (dB) | Freq. (kHz) | | |
| 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 Reading (dB) | IEC 61672 Class 1 Spec. (dB) |
|-------------|----------------|---------------------|----------------|---------------|--------|------------------|------------------------------|
| Range (dB) | Function | Frequency Weighting | Time Weighting | Level (dB) | Freq. | | |
| 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 |
| | | | | | 500 Hz | 90.8 | -3.2 ± 1.4 |
| | | | | | 1 kHz | 94.0 | Ref. |
| | | | | | 2 kHz | 95.3 | +1.2 ± 1.6 |
| | | | | | 4 kHz | 95.1 | +1.0 ± 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 Reading (dB) | IEC 61672 Class 1 Spec. (dB) |
|-------------|----------------|---------------------|----------------|---------------|--------|------------------|------------------------------|
| Range (dB) | Function | Frequency Weighting | Time Weighting | Level (dB) | Freq. | | |
| 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 |
| | | | | | 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) |

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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

- Uncertainties of Applied Value :

| | | |
|--------|------------------|--------------------------|
| 94 dB | : 63 Hz - 125 Hz | : ± 0.35 dB |
| | 250 Hz - 500 Hz | : ± 0.30 dB |
| | 1 kHz | : ± 0.20 dB |
| | 2 kHz - 4 kHz | : ± 0.35 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 :

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Appendix 5

Event and Action Plan for Construction Noise Monitoring

| | Action | | | |
|--------------|--|---|--|--|
| | ET | IEC | ER | Contractor |
| Action Level | <ol style="list-style-type: none"> 1. Notify the ER, IEC and Contractor. 2. Carry out investigation. 3. Report the results of investigation to the ER, IEC and Contractor. 4. Discuss with the IEC and Contractor and formulate remedial measures. 5. Increase monitoring frequency to check mitigation effectiveness. | <ol style="list-style-type: none"> 1. Review the investigation results submitted by the ET. 2. Review the proposed remedial measures by the Contractor and advise the ER accordingly. 3. Advise the ER on the effectiveness of the proposed remedial measures. | <ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing. 2. Notify the Contractor. 3. Require the Contractor to propose remedial measures. 4. Ensure remedial measures are properly implemented. | <ol style="list-style-type: none"> 1. Submit noise mitigation proposals to the IEC and ER. 2. Implement noise mitigation proposals. |
| Limit Level | <ol style="list-style-type: none"> 1. Notify the ER, IEC, Contractor and EPD. 2. Identify sources. 3. Repeat measurements to confirm findings. 4. Increase monitoring frequency. 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented. 6. Inform the IEC, ER and Contractor the causes and action taken for the exceedances. 7. Assess the effectiveness of the Contractor's remedial action and keep the IEC, EPD and ER informed of the results. 8. If exceedance stops, cease additional monitoring. | <ol style="list-style-type: none"> 1. Discuss amongst the ER, ET and Contractor on the potential remedial action. 2. Review the Contractor's remedial action whenever necessary to assure their effectiveness and advise the ER accordingly. | <ol style="list-style-type: none"> 1. Confirm receipt of notification of failure in writing. 2. Notify the Contractor. 3. Require the Contractor to propose remedial measures. 4. Ensure remedial measures are properly implemented. 5. If exceedance continues, consider what portion of work is responsible and instruct the Contractor to stop that portion of works until the exceedance is abated. | <ol style="list-style-type: none"> 1. Take immediate action to avoid further exceedance. 2. Submit proposals for remedial action to the IEC and ER within 3 working days of notification. 3. Implement the agreed proposals. 4. Submit further proposals if problems still not under control. 5. 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

Implementation Schedule for Environmental Mitigation Measures (EMIS)

| EIA Ref. | EM&A Manual Ref. | Environmental Protection Measures | Location/ Duration of Measures/ Timing of Completion of Measures | Implementation Agent | Status |
|--------------------|------------------|--|--|----------------------------------|--------|
| Air Quality | | | | | |
| 4.8.2 | 2.3.1 | <p>Dust suppression measures stipulated in the Air Pollution Control (Construction Dust) Regulation and good site practices:</p> <ul style="list-style-type: none"> • 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; • 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 any vent or exhaust should be fitted with the an effective fabric filter or | 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 |
|---------------|------------------|---|--|----------------------------------|--------|
| | | equivalent air pollution control system. | | | |
| Noise | | | | | |
| 5.8.3 | 3.4.1 – 3.4.2 | <p>Selection and Optimisation of Construction Processes</p> <ul style="list-style-type: none"> • 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 | <p>Use of QPME and Quiet Working Methods</p> <p>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.</p> <p>The use of plants with SWLs less than those in the GW-TM are summarized in Table 5.14 of the EIA report and the proposed mitigated plant inventory for the</p> | 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 Measures | Implementation Agent | Status |
|---------------|------------------|---|--|----------------------------------|--------|
| | | construction works of the proposed Project is detailed in <i>Appendix 5.8</i> . | | | |
| 5.8.7 – 5.8.8 | 3.4.1 – 3.4.2 | <p>Use of movable noise barriers</p> <p>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.</p> | All work sites | Contractor and sub-contractor(s) | N/A |
| 5.8.9 | 3.4.1 – 3.4.2 | <p>Good site practices</p> <ul style="list-style-type: none"> • Use of well-maintained and regularly-serviced plant during the works; • 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. | 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 |
|-------------------------------------|------------------|--|--|----------------------------------|--------|
| Water Quality & Sewerage | | | | | |
| 6.9.1 | 4.4.2 | <p>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:</p> <ul style="list-style-type: none"> • 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 |
|----------|------------------|---|--|----------------------|--------|
| | | <p>flow rate of 0.5m³/s the basin would be 150m³. The detailed design of the sand/silt raps should be undertaken by the Contractor prior to the commencement of construction.</p> <ul style="list-style-type: none"> • 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 |
|----------|------------------|--|--|----------------------|--------|
| | | <p>or debris being washed into the drainage system and storm run-off being directed into foul sewers;</p> <ul style="list-style-type: none"> <li data-bbox="331 389 1216 544">□ 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; <li data-bbox="331 571 1216 855">□ 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; <li data-bbox="331 882 1216 1134">□ 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; <li data-bbox="331 1161 1216 1286">□ 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 <li data-bbox="331 1313 1216 1433">□ 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) | √ |
| 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) | √ |
| 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) | √ |
| 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 | √ |
| 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) | √ |

| 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. | | | |
| Landscape and Visual | | | | | |
| 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) | √ |
| 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 Measures | 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 | <p>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 2600m² 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.</p> | The Government Complex and Vehicle Depot | Contractor and sub-contractor(s), Operator | N/A |
| 7.8.8 7.8.9 | 5.2.1 | <p>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.</p> <p>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.</p> | The Government Complex and Vehicle Depot | Contractor and sub-contractor(s), Operator | |

| 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 | <p>Recommendations for good site practices:</p> <ul style="list-style-type: none"> • 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; • Wheel washing facilities shall be used by all trucks leaving the site to prevent transfer of mud onto public roads; | 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 |
|----------|------------------|---|--|--------------------------------|--------|
| | | <ul style="list-style-type: none"> • 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 from utilizing them. Night soil should be regularly collected by licensed collectors. | | | √ |
| 8.5.1 | 6.2.1 | <p><u>C&D Materials / Waste:</u></p> <ul style="list-style-type: none"> • 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 | √ |

| EIA Ref. | EM&A Manual Ref. | Environmental Protection Measures | Location/ Duration of Measures/ Timing of Completion of Measures | Implementation Agent | Status |
|----------|------------------|---|--|--|--------|
| | | <p>reusable/recyclable portions (i.e. soil, broken concrete, metal, etc.) for backfilling and reinstatement;</p> <ul style="list-style-type: none"> • 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. | | | √ |
| 8.5.1 | 6.2.1 | <p><u>Chemical waste:</u></p> <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> – 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 | Location/ Duration of Measures/ Timing of Completion of Measures | Implementation Agent | Status |
|-----------------------|------------------|---|--|--|--------|
| | | and oil interceptors during operation. | | | |
| 8.5.1 | 6.2.1 | <p><u>General refuse:</u></p> <ul style="list-style-type: none"> • 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 to Life | | | | | |
| 10.11.1 | 8.2.1 | <p>Recommendations for good site practices in construction phase:</p> <ul style="list-style-type: none"> • 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 | √ |

| EIA Ref. | EM&A Manual Ref. | Environmental Protection Measures | Location/ Duration of Measures/ Timing of Completion of Measures | Implementation Agent | Status |
|----------|------------------|---|--|----------------------|--------|
| | | <ul style="list-style-type: none"> • 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:

√ Compliance of Mitigation Measures

<> Compliance of Mitigation but need improvement

x Non-compliance of Mitigation Measures

▲ Non-compliance of Mitigation Measures

N/A Not Applicable in Reporting Period

Appendix 7

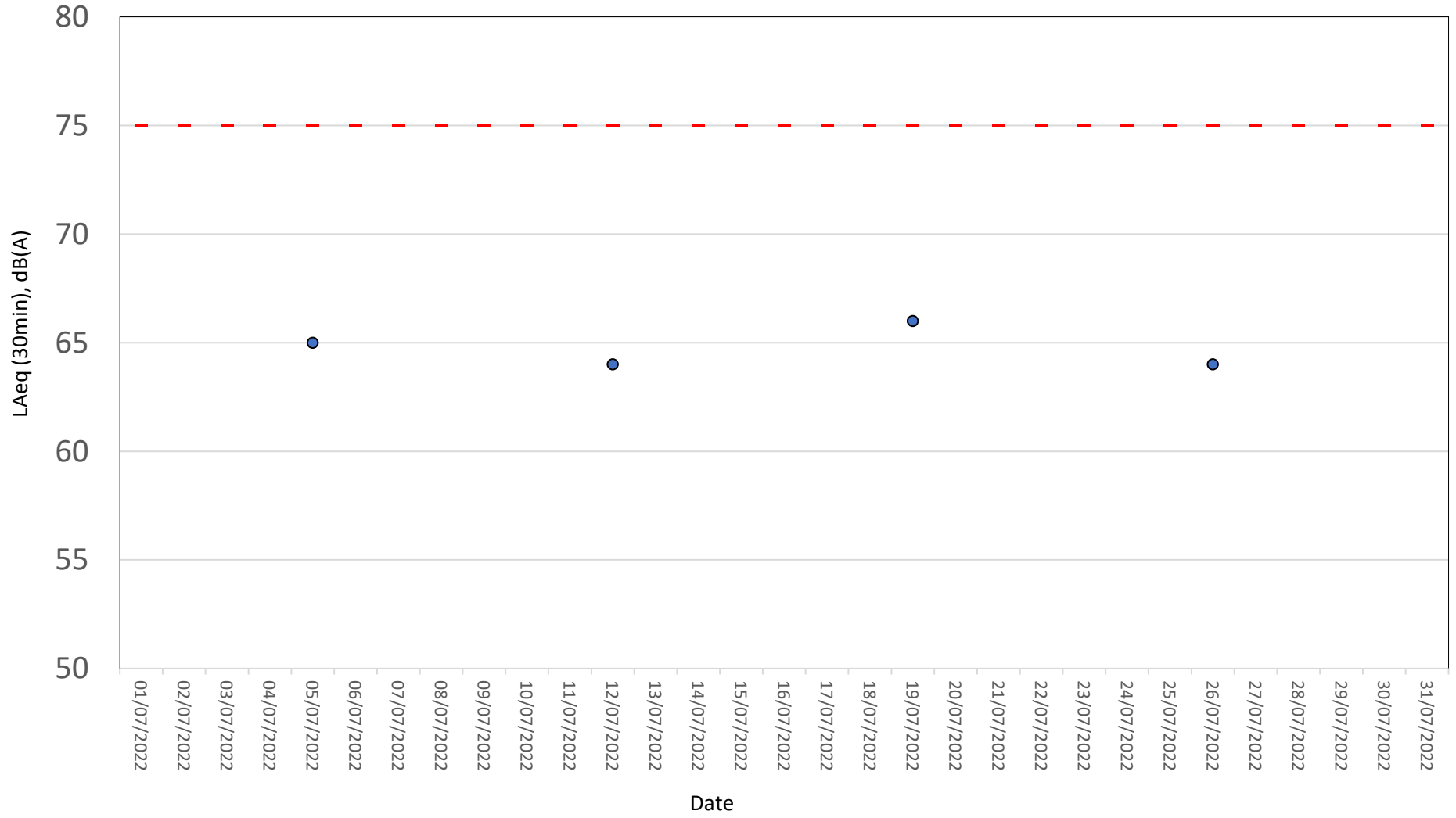
Contract No. SS H504 Design and Construction of Choi Wan Government Complex and Vehicle Depot
Noise Monitoring Data

| Date(yyyy-mm-dd) | Station | Start Time | Wind Speed, m/s | 1st set 5mins, dB(A) | | 2nd set 5mins, dB(A) | | 3rd set 5mins, dB(A) | | 4th set 5mins, dB(A) | | 5th set 5mins, dB(A) | | 6th set 5mins, dB(A) | | Measured Noise Level [Construction Noise Level], Leq 30mins, dB(A) | Unit | Site Observation | Measured Noise Level [Construction Noise Level], dB(A) | | Unit | Construction Noise Level # | Unit |
|------------------|---------|------------|-----------------|----------------------|-----------|----------------------|-----------|----------------------|-----------|----------------------|-------|--|------------|----------------------|-------|--|------|------------------|--|-----|------|----------------------------|------|
| | | | | Leq | L10 | L90 | Leq | L10 | L90 | Leq | L10 | L90 | Leq | L10 | L90 | | | | Leq | L10 | | | |
| 2022-07-05 | NM1* | 14:25 | 1.2 | Leq: 65.5 | Leq: 65.0 | Leq: 65.3 | Leq: 66.0 | Leq: 65.2 | Leq: 64.8 | Leq: 65 | dB(A) | Major: Noise from Yau Lee Site Other: Railway Noise. | Leq: 65.32 | dB(A) | 52.20 | dB(A) | | | | | | | |
| | | | | L10: 68.0 | L10: 67.4 | L10: 68.1 | L10: 69.1 | L10: 68.4 | L10: 67.5 | | | | | | | | | | | | | | |
| | | | | L90: 61.1 | L90: 61.5 | L90: 61.2 | L90: 62.0 | L90: 60.8 | L90: 60.3 | | | | | | | | | | | | | | |
| 2022-07-05 | NM2b* | 13:41 | 0.7 | Leq: 74.3 | Leq: 73.6 | Leq: 74.7 | Leq: 73.7 | Leq: 74.4 | Leq: 72.3 | Leq: 74 [64 #] | dB(A) | Major: Noise from Yau Lee Site Other: Traffic Noise. | Leq: 73.90 | dB(A) | 64.27 | dB(A) | | | | | | | |
| | | | | L10: 78.2 | L10: 77.3 | L10: 78.1 | L10: 77.5 | L10: 77.8 | L10: 75.3 | | | | | | | | | | | | | | |
| | | | | L90: 67.8 | L90: 68.4 | L90: 70.2 | L90: 67.3 | L90: 68.6 | L90: 68.4 | | | | | | | | | | | | | | |
| 2022-07-05 | NM3 | 12:57 | 0.9 | Leq: 69.4 | Leq: 69.3 | Leq: 69.0 | Leq: 70.2 | Leq: 68.7 | Leq: 68.3 | Leq: 69 | dB(A) | Major: Noise from Yau Lee Site Other: Noise from Cargo Handling Area & Traffic Noise. | Leq: 69.19 | dB(A) | N.A. | dB(A) | | | | | | | |
| | | | | L10: 71.1 | L10: 71.1 | L10: 70.9 | L10: 71.8 | L10: 70.7 | L10: 70.3 | | | | | | | | | | | | | | |
| | | | | L90: 67.6 | L90: 67.2 | L90: 66.7 | L90: 68.1 | L90: 66.6 | L90: 66.1 | | | | | | | | | | | | | | |
| 2022-07-12 | NM1* | 14:24 | 0.8 | Leq: 64.0 | Leq: 63.0 | Leq: 64.3 | Leq: 64.0 | Leq: 63.4 | Leq: 63.8 | Leq: 64 | dB(A) | Major: Noise from Yau Lee Site Other: Railway Noise | Leq: 63.77 | dB(A) | N.A. | dB(A) | | | | | | | |
| | | | | L10: 66.2 | L10: 65.7 | L10: 66.4 | L10: 67.1 | L10: 66.5 | L10: 66.6 | | | | | | | | | | | | | | |
| | | | | L90: 61.4 | L90: 60.2 | L90: 59.9 | L90: 59.6 | L90: 58.6 | L90: 58.6 | | | | | | | | | | | | | | |
| 2022-07-12 | NM2b * | 13:45 | 0.4 | Leq: 71.5 | Leq: 72.5 | Leq: 72.4 | Leq: 71.0 | Leq: 74.2 | Leq: 75.5 | Leq: 73^ | dB(A) | Major: Noise from Yau Lee Site Other: Traffic Noise. | Leq: 73.14 | dB(A) | N.A. | dB(A) | | | | | | | |
| | | | | L10: 74.8 | L10: 74.8 | L10: 75.3 | L10: 73.9 | L10: 75.2 | L10: 76.8 | | | | | | | | | | | | | | |
| | | | | L90: 66.8 | L90: 69.1 | L90: 67.5 | L90: 67.4 | L90: 67.6 | L90: 68.5 | | | | | | | | | | | | | | |
| 2022-07-12 | NM3 | 13:30 | 0.9 | Leq: 68.7 | Leq: 68.9 | Leq: 68.8 | Leq: 69.3 | Leq: 70.2 | Leq: 71.1 | Leq: 70 | dB(A) | Major: Noise from Yau Lee Site Other: Noise from Cargo Handling Area. | Leq: 69.59 | dB(A) | N.A. | dB(A) | | | | | | | |
| | | | | L10: 69.8 | L10: 70.0 | L10: 69.7 | L10: 70.3 | L10: 71.7 | L10: 73.0 | | | | | | | | | | | | | | |
| | | | | L90: 67.4 | L90: 67.7 | L90: 67.7 | L90: 67.7 | L90: 68.0 | L90: 68.7 | | | | | | | | | | | | | | |
| 2022-07-19 | NM1* | 14:38 | 0.9 | Leq: 65.1 | Leq: 65.4 | Leq: 65.6 | Leq: 65.8 | Leq: 67.3 | Leq: 66.6 | Leq: 66 | dB(A) | Major: Noise from other construction site Other: Railway Noise & Traffic Noise | Leq: 66.03 | dB(A) | 58.90 | dB(A) | | | | | | | |
| | | | | L10: 67.4 | L10: 67.7 | L10: 67.9 | L10: 67.8 | L10: 68.7 | L10: 68.7 | | | | | | | | | | | | | | |
| | | | | L90: 62.0 | L90: 63.0 | L90: 62.2 | L90: 62.8 | L90: 65.2 | L90: 64.4 | | | | | | | | | | | | | | |
| 2022-07-19 | NM2b * | 14:02 | 0.4 | Leq: 73.3 | Leq: 72.5 | Leq: 71.6 | Leq: 72.6 | Leq: 73.3 | Leq: 71.7 | Leq: 73^ | dB(A) | Major: Noise from Yau Lee Site Other: Traffic Noise. | Leq: 72.55 | dB(A) | N.A. | dB(A) | | | | | | | |
| | | | | L10: 76.1 | L10: 75.6 | L10: 74.8 | L10: 75.6 | L10: 75.9 | L10: 74.8 | | | | | | | | | | | | | | |
| | | | | L90: 67.7 | L90: 67.3 | L90: 66.4 | L90: 71.8 | L90: 71.8 | L90: 64.9 | | | | | | | | | | | | | | |
| 2022-07-19 | NM3 | 13:11 | 0.7 | Leq: 70.5 | Leq: 70.1 | Leq: 70.1 | Leq: 68.8 | Leq: 68.7 | Leq: 69.5 | Leq: 70 | dB(A) | Major: Noise from Yau Lee Site Other: Noise from Cargo Handling Area. | Leq: 69.67 | dB(A) | N.A. | dB(A) | | | | | | | |
| | | | | L10: 72.0 | L10: 71.6 | L10: 71.9 | L10: 70.3 | L10: 70.4 | L10: 71.0 | | | | | | | | | | | | | | |
| | | | | L90: 68.1 | L90: 67.8 | L90: 67.8 | L90: 67.1 | L90: 66.5 | L90: 67.7 | | | | | | | | | | | | | | |
| 2022-07-26 | NM1* | 14:33 | 0.7 | Leq: 62.2 | Leq: 64.9 | Leq: 63.7 | Leq: 64.1 | Leq: 62.9 | Leq: 63.2 | Leq: 64 | dB(A) | Major: Noise from Yau Lee Site Other: Railway Noise | Leq: 63.59 | dB(A) | N.A. | dB(A) | | | | | | | |
| | | | | L10: 65.5 | L10: 67.3 | L10: 66.9 | L10: 67.6 | L10: 65.8 | L10: 66.3 | | | | | | | | | | | | | | |
| | | | | L90: 59.9 | L90: 61.1 | L90: 59.3 | L90: 58.9 | L90: 59.1 | L90: 59.1 | | | | | | | | | | | | | | |
| 2022-07-26 | NM2b * | 13:55 | 0.5 | Leq: 71.1 | Leq: 69.1 | Leq: 69.9 | Leq: 70.8 | Leq: 69.6 | Leq: 70.9 | Leq: 70 | dB(A) | Major: Noise from Yau Lee Site Other: Traffic Noise. | Leq: 70.30 | dB(A) | N.A. | dB(A) | | | | | | | |
| | | | | L10: 72.9 | L10: 72.1 | L10: 72.8 | L10: 74.0 | L10: 72.6 | L10: 72.4 | | | | | | | | | | | | | | |
| | | | | L90: 65.2 | L90: 63.1 | L90: 63.5 | L90: 63.3 | L90: 63.2 | L90: 67.9 | | | | | | | | | | | | | | |
| 2022-07-26 | NM3 | 13:02 | 0.5 | Leq: 67.7 | Leq: 68.2 | Leq: 69.3 | Leq: 69.8 | Leq: 71.0 | Leq: 71.3 | Leq: 70 | dB(A) | Major: Noise from Yau Lee Site Other: Noise from Cargo Handling Area. | Leq: 69.75 | dB(A) | N.A. | dB(A) | | | | | | | |
| | | | | L10: 69.4 | L10: 69.8 | L10: 70.9 | L10: 71.4 | L10: 72.0 | L10: 72.9 | | | | | | | | | | | | | | |
| | | | | L90: 65.9 | L90: 66.1 | L90: 67.2 | L90: 66.4 | L90: 69.2 | L90: 69.3 | | | | | | | | | | | | | | |

Remark: * A facade correction of +3 dB(A) was applied to the measured noise level.
The measured noise levels exceeded the noise level of 70dB(A) and they were higher than the baseline level of 73.4 dB(A) and 69.8dB(A) for NM2b and NM3 respectively. Therefore, baseline corrections were carried out and the corrected noise level which solely represent the noise level of Construction works are lower than the noise criteria. As such the EAP was not triggered.
^On 12 and 19 July 2022, the measured noise level of NM2b exceeded the limit level of 70dB(A). However, it was lower than the baseline level of 73.4 dB(A). Therefore, it is not considered as an limit level exceedance.

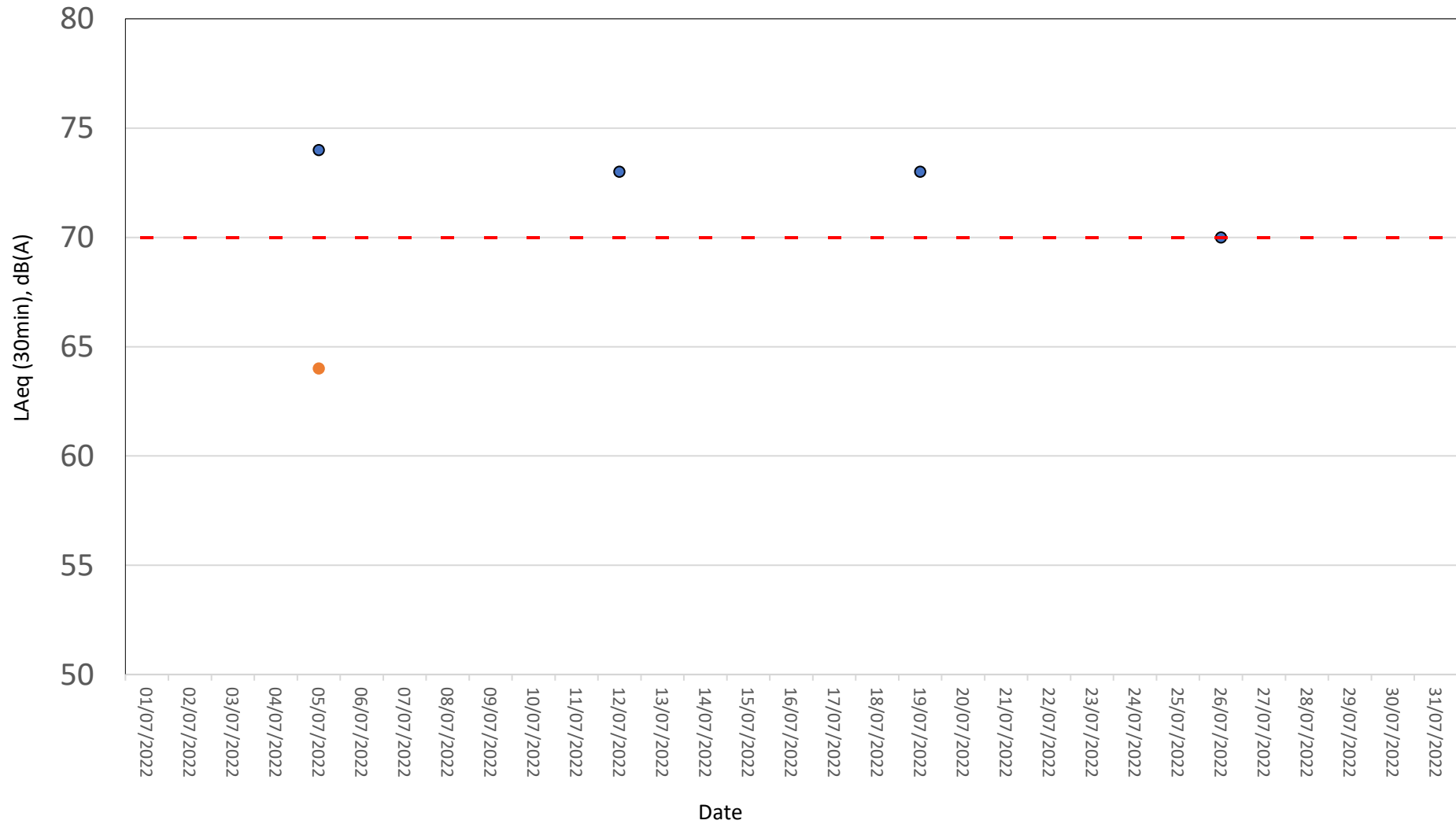
Normal Weekdays Noise Monitoring Results at NM1(Leq, 30min)

● NM1 - Measured Noise Level - - - Limit Level



Normal Weekdays Noise Monitoring Results at NM2b(Leq, 30min)

● NM2b - Measured Noise Level ● NM2b - Corrected Noise Level - - - Limit Level



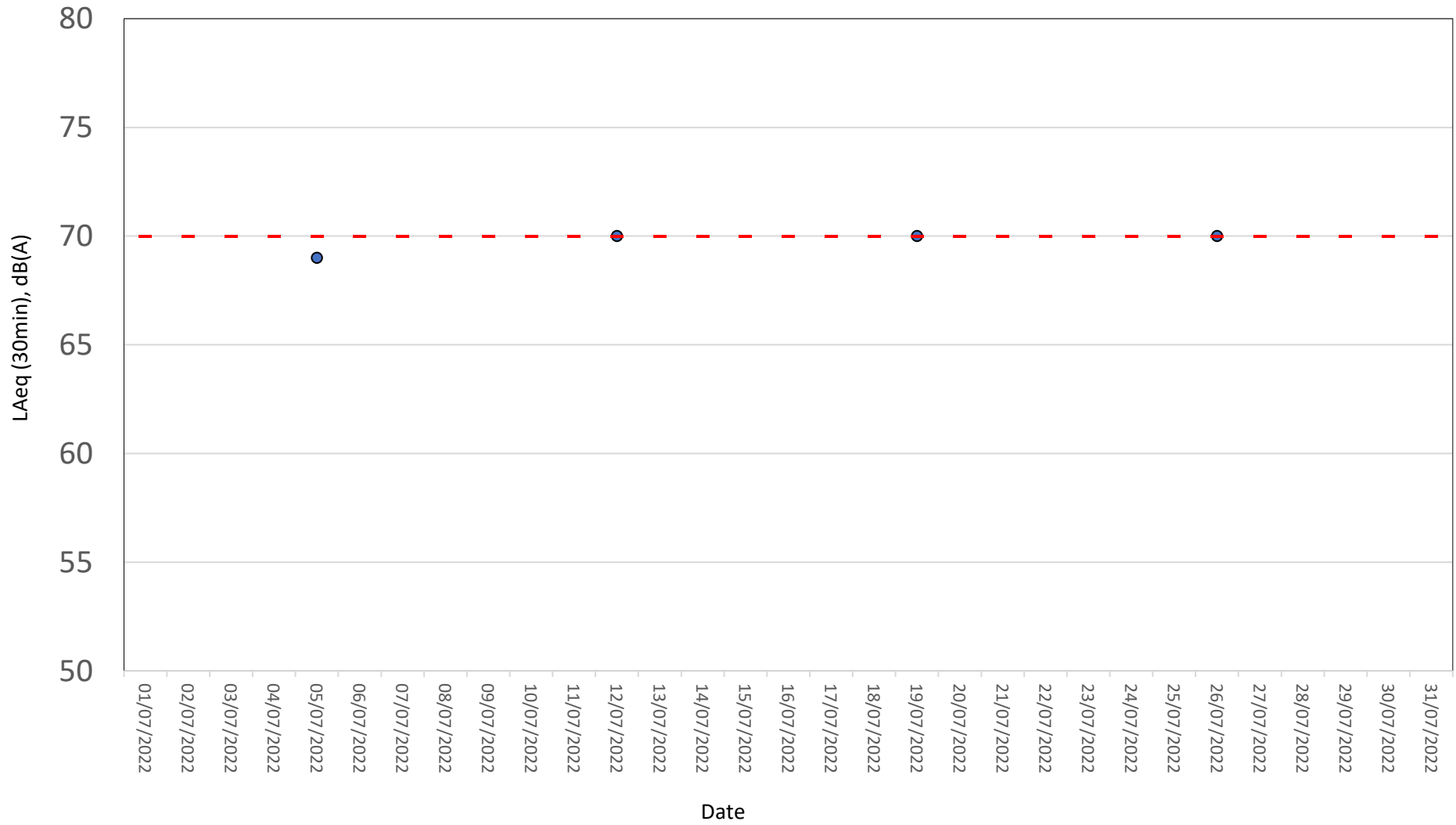
Remark:

The measured noise level exceeded the noise level of 70dB(A) and it was higher than the baseline level of 73.4dB(A). Therefore, baseline correction was carried out and the corrected noise level which solely represent the noise level of Construction works are lower than the noise criteria. As such the EAP was not triggered.

On 12 and 19 July 2022, the measured noise level of NM2b exceeded the limit level of 70dB(A). However, it was lower than the baseline level of 73.4dB(A). Therefore, it is not considered as an limit level exceedance.

Normal Weekdays Noise Monitoring Results at NM3(Leq, 30min)

● NM3 - Measured Noise Level ● - Limit Level



Appendix 8

Waste Flow Table

| Total Quantities of C&D Materials to be Generated from the Contract | | | | | | | | | | | |
|---|-------------------------------------|------------------------|--------------------------|--|---------------|--------------|-------------|-----------------------------|-----------------------|----------------|--|
| 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 (see Note 3) | Chemical Waste | Others, e.g. general refuse (Non-inert waste) ² |
| | (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 |
| Total | 0 | 0 | 0 | 27490.09 | 0 | 7.420 | 6.77 | 0.055 | 0 | 1 | 39.12 |

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: | 4 July 2022 | Inspected By: | Andy Ng |
| Time: | 14:00 – 14:30 | Weather Condition: | Overcast |
| Participants: | Mr. K.H.Lam (Engineer's Representative); Thomas Lam (Contractor); Ronald Shek (IEC); Daisy Au Yeung (ET); Andy Ng (ET) | | |

| A | 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | EP No.: EP-505/2015/A |
| A2 | Are Construction Noise Permits available for inspection/posted at site entrance. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | CNP No: GW-RS0245-22 |
| A3 | Is wastewater discharge licence available for inspection? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| A4 | Are trip tickets for chemical waste and construction waste disposal available for inspection? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| A5 | Are relevant licence/permit for disposal of construction waste or excavated materials available for inspection? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

| B | Air Quality | N/A or Not Observed | Yes | No | Remarks / Photo |
|-----|---|---|-------------------------------------|--------------------------|-----------------|
| B1 | Is open burning avoided? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| B2 | Are completed earthworks sealed as soon as practicable? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| B3 | Are plant and equipment well maintained (i. e. without black smoke from powered plant)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| B4 | Any remedial action undertaken? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| B5 | Observed dust source(s) | <input type="checkbox"/> Wind erosion <input type="checkbox"/> Vehicle/ Equipment Movements <input type="checkbox"/> Loading/ unloading of materials <input checked="" type="checkbox"/> Others: <u>Not Observed</u> | | | |
| B6 | Are unpaved areas/ designated roads watered regularly to avoid dust generation? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| B8 | After removal of stockpile, are the remained dusty materials wetted with water and cleared from surface of roads? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| B9 | Is the stockpile of dusty materials avoid to be extend beyond the pedestrian barriers, fencing or traffic cones? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| B10 | Are loaded dump trucks covered by impervious sheeting appropriately before leaving the site? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| B11 | Are wheel washing facilities with high pressure water jet provided at all site exits if practicable? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

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

| | | | | | |
|-----|--|--------------------------|-------------------------------------|--------------------------|--|
| B30 | Are designated roads paved? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| B31 | Are site vehicle movements confined to designated roads? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

| C | Noise | N/A or Not Observed | Yes | No | Remarks / Photo |
|-----|---|--|-------------------------------------|-------------------------------------|------------------------|
| C1 | Is well-maintained plant operated on-site and plant served regularly? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| C2 | Are vehicles and equipment switched off or throttled down while not in use? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| C3 | Is the noise directed away from nearby NSRs? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| C4 | Are the silencers or mufflers properly fitted on construction equipment and maintained regularly? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| C6 | Are material stockpiles, mobile container office and other structures utilised to screen noisy activities? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| C7 | Is temporary hoarding installed located on the site boundaries between noisy construction activities and NSRs? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 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? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Refer to Observation 1 |
| C9 | Is the sequencing operation of construction plants where practicable? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| C10 | Is the hoarding maintained properly? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| C11 | Do air compressors have valid noise labels? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| C12 | Are compressor operated with doors closed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| C13 | QPME used with valid noise labels? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| C14 | Major noise source(s) | | | | |
| | | <input checked="" type="checkbox"/> Traffic | | | |
| | | <input type="checkbox"/> Construction activities inside of site | | | |
| | | <input type="checkbox"/> Construction activities outside of site | | | |
| | | <input type="checkbox"/> Others: | | | |

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

| | | | | | |
|-----|--|-------------------------------------|-------------------------------------|--------------------------|---------------|
| D21 | Are site drainage systems provided over the entire project site with sediment control facilities? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| D24 | Is the treated wastewater reused for vehicle washing, dust suppression and general cleaning? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| D25 | Is the sewage generated from toilets collected using a temporary storage system? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| D26 | Is there any sediment plume observed in nearby watercourses? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Not observed. |
| D27 | Are slit-grease traps deployed to prevent a direct input of road surface runoff to the marine waters? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |

| E | 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| E2 | Is the general waste collected properly by using the waste separation facilities for paper, aluminium cans, plastic bottles etc.? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| E3 | Does accumulation of waste avoid? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| E4 | Is waste disposed regularly? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Construction Waste | | | | | |
| E5 | Are the temporary stockpiles maintained regularly? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| E6 | Is the excavated fill material reused for backfilling and reinstatement? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| E7 | Are the C&D materials sorted and recycled on-site? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| E8 | Is there any contract documents provided to allow and promote the use of recycled aggregates where appropriate? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Not observed. |
| E9 | Is the disposal of C&D materials avoided onto any sensitive locations e.g. agricultural lands etc.? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| E11 | Is the durable formwork or plastic facing for construction works used? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| E12 | Do the wooden hoardings avoid to be used? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| E13 | Is metal hoarding used to enhance the possibility of recycling? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| E14 | Is the segregation and storage of C&D wastes undertaken in designated are? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

| | | | | | |
|--|--|-------------------------------------|-------------------------------------|--------------------------|------|
| E15 | Are waste storage area properly cleaned and do not cause windblown litter and dust nuisance? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| E16 | Do the excavated materials appear contaminated? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| E17 | If suspected contaminated, appropriate procedures followed? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| <u>Chemical / Fuel Storage Area</u> | | | | | |
| E18 | Are the fuel tanks and chemical storage areas provided with locks and sited on sealed areas? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| E19 | Are the storage area enclosed 3 sides by walls/ fence of ≥ 2 m 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| E20 | Are the storage areas labelled and separated (if needed)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| E21 | Do the storage areas have adequate ventilation and be covered to prevent rainfall entering? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| E23 | If no specification has been approved by EPD, are container with < 450 L capacity provided for storage of chemicals waste? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| <u>Chemical Waste / Waste Oil</u> | | | | | |
| E24 | Is chemical waste or waste oil stored and labelled in English and Chinese properly in designated area? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| E25 | Are chemicals and waste oil recycled or disposed properly? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| E26 | Is waste oil collected and stored for recycling or disposal? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| <u>Records</u> | | | | | |
| E27 | Is a licensed waste haulier used for waste collection? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| E28 | Are the records of quantities of wastes generated, recycled and disposed properly kept? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| E29 | For the demolition material/ waste, is the number of loads for each day recorded as appropriate? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| F2 | Is damage to surrounding areas avoided? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| F3 | Is the hoardings with aesthetic treatment provided and designed to be subtle and camouflaged? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 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)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Not observed. |
| F5 | Are the protective fencing erected along or beyond the perimeter of the tree protection zone of each individual tree? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

| G | Environmental Complaint | N/A or Not Observed | Yes | No | Remarks / Photo |
|----------|--|----------------------------|-------------------------------------|--------------------------|------------------------|
| G1 | Number of Environmental Complaint received from 11/11/2021 to 04/07/2022 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

| H | General Housekeeping | N/A or Not Observed | Yes | No | Remarks / Photo |
|----------|--|-------------------------------------|-------------------------------------|--------------------------|------------------------|
| H1 | Are potential stagnant pools cleared and mosquito breeding prevented? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Not Observed |
| H2 | Are the defined boundaries of working areas identified to prevent loss of vegetation | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

| I | Others | N/A or Not Observed | Yes | No | Remarks / Photo |
|----------|---|----------------------------|-------------------------------------|--------------------------|------------------------|
| I1 | Are the portable toilets maintained in a state, which will not deter the workers from utilizing these portable toilets? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

Follow up action for previous Site Inspection:

1. The Contractor cleared the drip trays. (Photo F1 & F2)

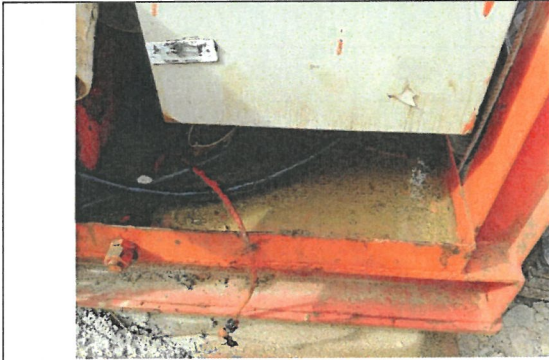


Photo F1



Photo F2

Observation(s):

1. The generator is observed without noise barriers. (Photo 1)



Photo 1

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

1. Noise barriers shall be provided to the generators within the site according to the CNMP.

| | Environmental Team Representative: | IEC's Representative: | Contractor's Representative: | Engineer's Representative |
|------------|------------------------------------|-----------------------|------------------------------|---------------------------|
| Signature: | | | | |
| Name: | Andy Ng | Ronald Shek | Thomas Lam | Henry Lam SUPD/COW |
| Date: | 4 July 2022 | 4 July 2022 | 4 July 2022 | 04 - July - 2022 |

| | | | |
|------------------|---|--------------------|---------|
| Inspection Date: | 14 July 2022 | Inspected By: | Andy Ng |
| Time: | 15:00 – 15:40 | Weather Condition: | Cloudy |
| Participants: | Mr. K.H.Lam (Engineer's Representative); Desmond Ho (Contractor); Thomas Lam (Contractor); Andy Ng (ET) | | |

| A | 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | EP No.: EP-505/2015/A |
| A2 | Are Construction Noise Permits available for inspection/posted at site entrance. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | CNP No: GW-RS0245-22 |
| A3 | Is wastewater discharge licence available for inspection? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| A4 | Are trip tickets for chemical waste and construction waste disposal available for inspection? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| A5 | Are relevant licence/permit for disposal of construction waste or excavated materials available for inspection? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

| B | Air Quality | N/A or Not Observed | Yes | No | Remarks / Photo |
|-----|---|---|-------------------------------------|--------------------------|-----------------|
| B1 | Is open burning avoided? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| B2 | Are completed earthworks sealed as soon as practicable? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| B3 | Are plant and equipment well maintained (i. e. without black smoke from powered plant)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| B4 | Any remedial action undertaken? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| B5 | Observed dust source(s) | <input checked="" type="checkbox"/> Wind erosion <input type="checkbox"/> Vehicle/ Equipment Movements <input type="checkbox"/> Loading/ unloading of materials <input type="checkbox"/> Others: _____ | | | |
| B6 | Are unpaved areas/ designated roads watered regularly to avoid dust generation? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| B8 | After removal of stockpile, are the remained dusty materials wetted with water and cleared from surface of roads? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| B9 | Is the stockpile of dusty materials avoid to be extend beyond the pedestrian barriers, fencing or traffic cones? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| B10 | Are loaded dump trucks covered by impervious sheeting appropriately before leaving the site? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Not Observed |
| B11 | Are wheel washing facilities with high pressure water jet provided at all site exits if practicable? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

| | | | | | |
|-----|--|-------------------------------------|-------------------------------------|-------------------------------------|------------------------|
| B12 | Are all vehicles and plant cleaned before they leave the construction site? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| B13 | Are hoarding $\geq 2.4\text{m}$ tall provided beside roads or area with public access? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| B14 | Is the portion of any road leading only to construction site (within 30m of a vehicle entrance or exit) kept clear of dusty materials? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| B15 | Are surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operations takes place sprayed with water or a dust suppression chemical continuously? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| B16 | Is the area involved demolition activities sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities so as to maintain the entire surface wet? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| B17 | Is scaffolding erected around the perimeter of a building under construction? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| B18 | Are effective dust screens, sheeting or netting provided to enclose the scaffolding from the ground floor level of the building, or a canopy provided from the first floor level up to the highest level of the scaffolding? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| B19 | Is the skip hoist for materials transport enclosed by impervious sheeting? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| B20 | Is every stock of more than 20 bags of cement or dry pulverized fuel ash (PFA) covered entirely by impervious sheeting or placed in an area sheltered on the top and 3 sides? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| B21 | Are the areas of washing facilities and the road section between the washing facilities and the exit point paved with concrete, bituminous materials or hardcores? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| B22 | Are cement or dry PFA delivered in bulk stored in a closed silo fitted with an audible high-level alarm which is interlocked with the material filling line and no overfilling is allowed? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| B23 | Are the activities of loading, unloading, transfer, handing or storage of bulk cement or dry PFA carried out in a totally enclosed system or facility? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| B24 | Is any vent or exhaust fitted with an effective fabric filter or equipment air pollution control system? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| B25 | Is the exposed earth properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shotcrete or other suitable surface stabiliser within six months after last construction activity on the construction site or part of the construction site where the exposed earth lies? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| B26 | Are the worksites wetted with water regularly? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Refer to Observation 2 |
| B27 | Is generation of dust avoided during loading or unloading? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| B28 | Are all trucks loaded to a level within the side and tail boards? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Not Observed |
| B29 | Are appropriate speed limit sign displayed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

| | | | | | |
|-----|--|--------------------------|-------------------------------------|--------------------------|--|
| B30 | Are designated roads paved? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| B31 | Are site vehicle movements confined to designated roads? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

| C | Noise | N/A or Not Observed | Yes | No | Remarks / Photo |
|-----|---|--|-------------------------------------|-------------------------------------|------------------------|
| C1 | Is well-maintained plant operated on-site and plant served regularly? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| C2 | Are vehicles and equipment switched off or throttled down while not in use? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| C3 | Is the noise directed away from nearby NSRs? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| C4 | Are the silencers or mufflers properly fitted on construction equipment and maintained regularly? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| C6 | Are material stockpiles, mobile container office and other structures utilised to screen noisy activities? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| C7 | Is temporary hoarding installed located on the site boundaries between noisy construction activities and NSRs? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 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? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Refer to Observation 1 |
| C9 | Is the sequencing operation of construction plants where practicable? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| C10 | Is the hoarding maintained properly? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| C11 | Do air compressors have valid noise labels? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| C12 | Are compressor operated with doors closed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| C13 | QPME used with valid noise labels? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Refer to Observation 3 |
| C14 | Major noise source(s) | | | | |
| | | <input type="checkbox"/> Traffic | | | |
| | | <input checked="" type="checkbox"/> Construction activities inside of site | | | |
| | | <input type="checkbox"/> Construction activities outside of site | | | |
| | | <input type="checkbox"/> Others: | | | |

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

| | | | | | |
|-----|--|-------------------------------------|-------------------------------------|--------------------------|---------------|
| D21 | Are site drainage systems provided over the entire project site with sediment control facilities? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| D24 | Is the treated wastewater reused for vehicle washing, dust suppression and general cleaning? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| D25 | Is the sewage generated from toilets collected using a temporary storage system? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| D26 | Is there any sediment plume observed in nearby watercourses? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Not observed. |
| D27 | Are slit-grease traps deployed to prevent a direct input of road surface runoff to the marine waters? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |

| E | 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| E2 | Is the general waste collected properly by using the waste separation facilities for paper, aluminium cans, plastic bottles etc.? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| E3 | Does accumulation of waste avoid? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| E4 | Is waste disposed regularly? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Construction Waste | | | | | |
| E5 | Are the temporary stockpiles maintained regularly? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| E6 | Is the excavated fill material reused for backfilling and reinstatement? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| E7 | Are the C&D materials sorted and recycled on-site? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| E8 | Is there any contract documents provided to allow and promote the use of recycled aggregates where appropriate? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Not observed. |
| E9 | Is the disposal of C&D materials avoided onto any sensitive locations e.g. agricultural lands etc.? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| E11 | Is the durable formwork or plastic facing for construction works used? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| E12 | Do the wooden hoardings avoid to be used? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| E13 | Is metal hoarding used to enhance the possibility of recycling? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| E14 | Is the segregation and storage of C&D wastes undertaken in designated are? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

| | | | | | |
|-------------------------------------|--|-------------------------------------|-------------------------------------|--------------------------|------|
| E15 | Are waste storage area properly cleaned and do not cause windblown litter and dust nuisance? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| E16 | Do the excavated materials appear contaminated? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| E17 | If suspected contaminated, appropriate procedures followed? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| Chemical / Fuel Storage Area | | | | | |
| E18 | Are the fuel tanks and chemical storage areas provided with locks and sited on sealed areas? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| E19 | Are the storage area enclosed 3 sides by walls/ fence of $\geq 2\text{m}$ 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| E20 | Are the storage areas labelled and separated (if needed)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| E21 | Do the storage areas have adequate ventilation and be covered to prevent rainfall entering? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| E23 | If no specification has been approved by EPD, are container with $< 450\text{L}$ capacity provided for storage of chemicals waste? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Chemical Waste / Waste Oil | | | | | |
| E24 | Is chemical waste or waste oil stored and labelled in English and Chinese properly in designated area? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| E25 | Are chemicals and waste oil recycled or disposed properly? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| E26 | Is waste oil collected and stored for recycling or disposal? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| Records | | | | | |
| E27 | Is a licensed waste haulier used for waste collection? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| E28 | Are the records of quantities of wastes generated, recycled and disposed properly kept? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| E29 | For the demolition material/ waste, is the number of loads for each day recorded as appropriate? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| F2 | Is damage to surrounding areas avoided? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| F3 | Is the hoardings with aesthetic treatment provided and designed to be subtle and camouflaged? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 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)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Not observed. |
| F5 | Are the protective fencing erected along or beyond the perimeter of the tree protection zone of each individual tree? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

| G | Environmental Complaint | N/A or Not Observed | Yes | No | Remarks / Photo |
|----------|--|----------------------------|-------------------------------------|--------------------------|------------------------|
| G1 | Number of Environmental Complaint received from 11/11/2021 to 14/07/2022 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

| H | General Housekeeping | N/A or Not Observed | Yes | No | Remarks / Photo |
|----------|--|-------------------------------------|-------------------------------------|--------------------------|------------------------|
| H1 | Are potential stagnant pools cleared and mosquito breeding prevented? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Not Observed |
| H2 | Are the defined boundaries of working areas identified to prevent loss of vegetation | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

| I | Others | N/A or Not Observed | Yes | No | Remarks / Photo |
|----------|---|----------------------------|-------------------------------------|--------------------------|------------------------|
| I1 | Are the portable toilets maintained in a state, which will not deter the workers from utilizing these portable toilets? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

Follow up action for previous Site Inspection:

1. The generator was covered with noise barrier. The Contractor was reminded to set up noise barriers properly for noise reduction. (Photo F1)



Photo F1

Observation(s):

1. The generators are observed without noise barriers. (Photo 1 & Photo 2 & Photo 3)
2. The work area appeared dry and fugitive dust was observed. (Photo 4)
3. The QPME label on the mobile crane was expired. (Photo 5)



Photo 1



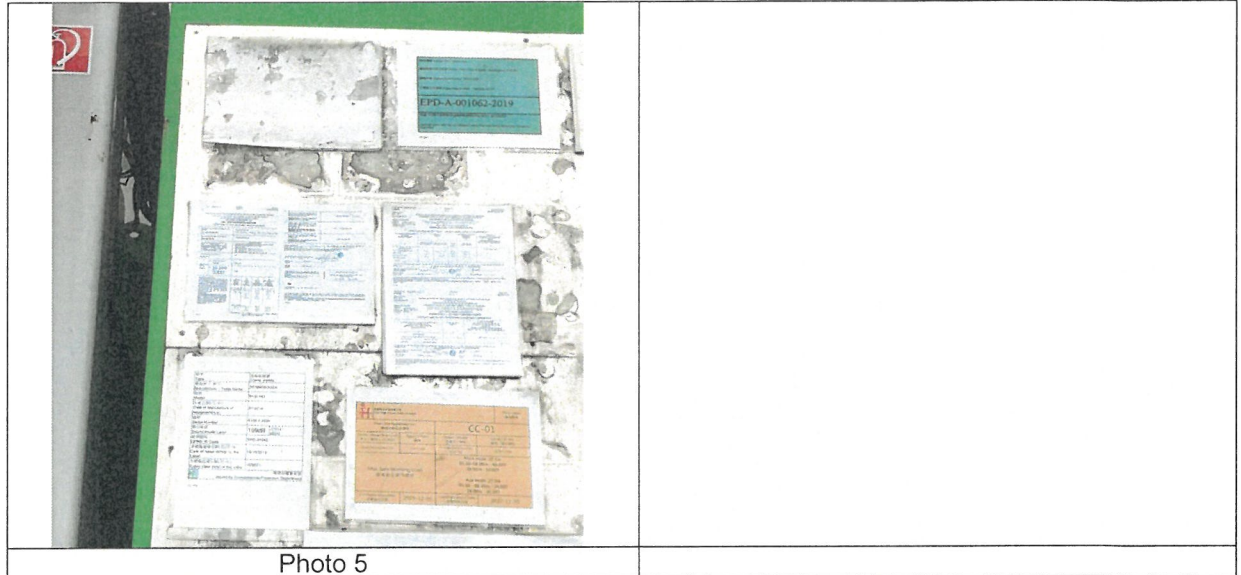
Photo 2



Photo 3



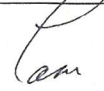


Photo 4



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

1. Noise barriers shall be provided to the generators within the site according to the CNMP.
2. The Contractor was reminded to increase the frequency of watering for the work area when necessary to avoid dust emission.
3. The Contractor was reminded to renew the QPME label.

| | Environmental Team Representative: | IEC's Representative: | Contractor's Representative: | Engineer's Representative |
|------------|---|-----------------------|--|---|
| Signature: |  | / |  |  |
| Name: | Andy Ng | / | Thomas Lam | Henry Lam SUPD/ COW |
| Date: | 14 July 2022 | / | 14 July 2022 | 14-July-2022 |

| | | | |
|------------------|---|--------------------|---------|
| Inspection Date: | 21 July 2022 | Inspected By: | Andy Ng |
| Time: | 15:00 – 15:30 | Weather Condition: | Sunny |
| Participants: | Mr. K.Y. Yip (Engineer's Representative); Thomas Lam (Contractor); Andy Ng (ET) | | |

| A | 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | EP No.: EP-505/2015/A |
| A2 | Are Construction Noise Permits available for inspection/posted at site entrance. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | CNP No: GW-RS0245-22 |
| A3 | Is wastewater discharge licence available for inspection? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| A4 | Are trip tickets for chemical waste and construction waste disposal available for inspection? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| A5 | Are relevant licence/permit for disposal of construction waste or excavated materials available for inspection? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

| B | Air Quality | N/A or Not Observed | Yes | No | Remarks / Photo |
|-----|---|---|-------------------------------------|--------------------------|-----------------|
| B1 | Is open burning avoided? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| B2 | Are completed earthworks sealed as soon as practicable? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| B3 | Are plant and equipment well maintained (i. e. without black smoke from powered plant)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| B4 | Any remedial action undertaken? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| B5 | Observed dust source(s) | <input checked="" type="checkbox"/> Wind erosion <input type="checkbox"/> Vehicle/ Equipment Movements <input type="checkbox"/> Loading/ unloading of materials <input type="checkbox"/> Others: _____ | | | |
| B6 | Are unpaved areas/ designated roads watered regularly to avoid dust generation? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| B8 | After removal of stockpile, are the remained dusty materials wetted with water and cleared from surface of roads? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| B9 | Is the stockpile of dusty materials avoid to be extend beyond the pedestrian barriers, fencing or traffic cones? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| B10 | Are loaded dump trucks covered by impervious sheeting appropriately before leaving the site? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Not Observed |
| B11 | Are wheel washing facilities with high pressure water jet provided at all site exits if practicable? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

| | | | | | |
|-----|--|-------------------------------------|-------------------------------------|-------------------------------------|------------------------|
| B12 | Are all vehicles and plant cleaned before they leave the construction site? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Refer to Observation 1 |
| B13 | Are hoarding $\geq 2.4\text{m}$ tall provided beside roads or area with public access? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| B14 | Is the portion of any road leading only to construction site (within 30m of a vehicle entrance or exit) kept clear of dusty materials? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Refer to Observation 1 |
| B15 | Are surfaces where any pneumatic or power-driven drilling, cutting, polishing or other mechanical breaking operations takes place sprayed with water or a dust suppression chemical continuously? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| B16 | Is the area involved demolition activities sprayed with water or a dust suppression chemical immediately prior to, during and immediately after the activities so as to maintain the entire surface wet? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| B17 | Is scaffolding erected around the perimeter of a building under construction? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| B18 | Are effective dust screens, sheeting or netting provided to enclose the scaffolding from the ground floor level of the building, or a canopy provided from the first floor level up to the highest level of the scaffolding? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| B19 | Is the skip hoist for materials transport enclosed by impervious sheeting? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| B20 | Is every stock of more than 20 bags of cement or dry pulverized fuel ash (PFA) covered entirely by impervious sheeting or placed in an area sheltered on the top and 3 sides? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| B21 | Are the areas of washing facilities and the road section between the washing facilities and the exit point paved with concrete, bituminous materials or hardcores? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| B22 | Are cement or dry PFA delivered in bulk stored in a closed silo fitted with an audible high-level alarm which is interlocked with the material filling line and no overfilling is allowed? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| B23 | Are the activities of loading, unloading, transfer, handing or storage of bulk cement or dry PFA carried out in a totally enclosed system or facility? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| B24 | Is any vent or exhaust fitted with an effective fabric filter or equipment air pollution control system? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| B25 | Is the exposed earth properly treated by compaction, turfing, hydroseeding, vegetation planting or sealing with latex, vinyl, bitumen, shotcrete or other suitable surface stabiliser within six months after last construction activity on the construction site or part of the construction site where the exposed earth lies? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| B26 | Are the worksites wetted with water regularly? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Refer to Observation 2 |
| B27 | Is generation of dust avoided during loading or unloading? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| B28 | Are all trucks loaded to a level within the side and tail boards? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Not Observed |
| B29 | Are appropriate speed limit sign displayed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

| | | | | | |
|-----|--|--------------------------|-------------------------------------|--------------------------|--|
| B30 | Are designated roads paved? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| B31 | Are site vehicle movements confined to designated roads? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

| C | Noise | N/A or Not Observed | Yes | No | Remarks / Photo |
|-----|---|--|-------------------------------------|-------------------------------------|------------------------|
| C1 | Is well-maintained plant operated on-site and plant served regularly? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| C2 | Are vehicles and equipment switched off or throttled down while not in use? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| C3 | Is the noise directed away from nearby NSRs? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| C4 | Are the silencers or mufflers properly fitted on construction equipment and maintained regularly? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| C6 | Are material stockpiles, mobile container office and other structures utilised to screen noisy activities? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| C7 | Is temporary hoarding installed located on the site boundaries between noisy construction activities and NSRs? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 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? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Refer to Observation 3 |
| C9 | Is the sequencing operation of construction plants where practicable? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| C10 | Is the hoarding maintained properly? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| C11 | Do air compressors have valid noise labels? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| C12 | Are compressor operated with doors closed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| C13 | QPME used with valid noise labels? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| C14 | Major noise source(s) | <input type="checkbox"/> Traffic <input checked="" type="checkbox"/> Construction activities inside of site <input type="checkbox"/> Construction activities outside of site <input type="checkbox"/> Others: | | | |

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

| | | | | | |
|-----|--|-------------------------------------|-------------------------------------|--------------------------|---------------|
| D21 | Are site drainage systems provided over the entire project site with sediment control facilities? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| D24 | Is the treated wastewater reused for vehicle washing, dust suppression and general cleaning? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| D25 | Is the sewage generated from toilets collected using a temporary storage system? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| D26 | Is there any sediment plume observed in nearby watercourses? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Not observed. |
| D27 | Are slit-grease traps deployed to prevent a direct input of road surface runoff to the marine waters? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |

| E | 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| E2 | Is the general waste collected properly by using the waste separation facilities for paper, aluminium cans, plastic bottles etc.? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| E3 | Does accumulation of waste avoid? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| E4 | Is waste disposed regularly? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Construction Waste | | | | | |
| E5 | Are the temporary stockpiles maintained regularly? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| E6 | Is the excavated fill material reused for backfilling and reinstatement? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| E7 | Are the C&D materials sorted and recycled on-site? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| E8 | Is there any contract documents provided to allow and promote the use of recycled aggregates where appropriate? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Not observed. |
| E9 | Is the disposal of C&D materials avoided onto any sensitive locations e.g. agricultural lands etc.? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| E11 | Is the durable formwork or plastic facing for construction works used? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| E12 | Do the wooden hoardings avoid to be used? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| E13 | Is metal hoarding used to enhance the possibility of recycling? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| E14 | Is the segregation and storage of C&D wastes undertaken in designated are? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

| | | | | | |
|-------------------------------------|--|-------------------------------------|-------------------------------------|--------------------------|------|
| E15 | Are waste storage area properly cleaned and do not cause windblown litter and dust nuisance? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| E16 | Do the excavated materials appear contaminated? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| E17 | If suspected contaminated, appropriate procedures followed? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| Chemical / Fuel Storage Area | | | | | |
| E18 | Are the fuel tanks and chemical storage areas provided with locks and sited on sealed areas? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| E20 | Are the storage areas labelled and separated (if needed)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| E21 | Do the storage areas have adequate ventilation and be covered to prevent rainfall entering? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| E23 | If no specification has been approved by EPD, are container with <450L capacity provided for storage of chemicals waste? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Chemical Waste / Waste Oil | | | | | |
| E24 | Is chemical waste or waste oil stored and labelled in English and Chinese properly in designated area? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| E25 | Are chemicals and waste oil recycled or disposed properly? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| E26 | Is waste oil collected and stored for recycling or disposal? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| Records | | | | | |
| E27 | Is a licensed waste haulier used for waste collection? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| E28 | Are the records of quantities of wastes generated, recycled and disposed properly kept? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| E29 | For the demolition material/ waste, is the number of loads for each day recorded as appropriate? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| F2 | Is damage to surrounding areas avoided? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| F3 | Is the hoardings with aesthetic treatment provided and designed to be subtle and camouflaged? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 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)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Not observed. |
| F5 | Are the protective fencing erected along or beyond the perimeter of the tree protection zone of each individual tree? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

| G | Environmental Complaint | N/A or Not Observed | Yes | No | Remarks / Photo |
|----------|--|----------------------------|-------------------------------------|--------------------------|------------------------|
| G1 | Number of Environmental Complaint received from 11/11/2021 to 21/07/2022 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

| H | General Housekeeping | N/A or Not Observed | Yes | No | Remarks / Photo |
|----------|--|-------------------------------------|-------------------------------------|--------------------------|------------------------|
| H1 | Are potential stagnant pools cleared and mosquito breeding prevented? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Not Observed |
| H2 | Are the defined boundaries of working areas identified to prevent loss of vegetation | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

| I | Others | N/A or Not Observed | Yes | No | Remarks / Photo |
|----------|---|----------------------------|-------------------------------------|--------------------------|------------------------|
| I1 | Are the portable toilets maintained in a state, which will not deter the workers from utilizing these portable toilets? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

Follow up action for previous Site Inspection:

1. The generator was covered with noise barrier. The Contractor was reminded to set up noise barriers properly for noise reduction. (Photo F1, Photo F2 and Photo F3)
2. The Contractor scheduled watering for the work area. (Photo F4)
3. The QPME label is renewed and it will be placed on the mobile crane. (Photo F5)



Photo F1



Photo F2



Photo F3



Photo F4

| | | |
|---|--------------|---------|
| 類別 | 流動起重機 | |
| Type | Crane,mobile | |
| 製造商 / 牌子 | SENNEBOGEN | |
| Model | 6130 HD | |
| 生產日期(月/年) | 01/2015 | |
| Date of Manufacture of equipment(m/y) | | |
| 編號 | 6130.5.1000 | |
| Sound Power Level | 109dB | 52dB(A) |
| 識別號碼 | EPD-07545 | |
| QPME ID Code | | |
| 本標籤發日期(日/月/年) | 18/12/2021 | |
| Date of Issue (d/m/y) of this Label | | |
| 本標籤失效日期(月/年) | 10/2027 | |
| Expiry Date (m/y) of this Label | | |
| 環境保護署發 Issued by Environmental Protection Department | | |

Photo F5

Observation(s):

1. The public road is covered with silt. (Photo 1)
2. The work area appears dry and fugitive dust is observed. (Photo 2)
3. The generators are observed without noise barriers. (Photo 3 & Photo 4 & Photo 5 & Photo 6)
4. Oil stains are observed under the machines. (Photo 7 & Photo 8)



Photo 1



Photo 2



Photo 3



Photo 4



Photo 5



Photo 6





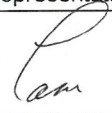
Photo 7



Photo 8

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

1. The Contractor shall clean up the public road. Vehicle washing shall be properly implemented at every exits.
2. The Contractor was reminded to increase the frequency of watering for the work area when necessary to avoid dust emission.
3. Noise barriers shall be provided to the generators within the site according to the CNMP.
4. Oil stains shall be cleared and disposed of as chemical waste.

| | Environmental Team Representative: | IEC's Representative: | Contractor's Representative: | Engineer's Representative |
|------------|---|-----------------------|--|---|
| Signature: |  | / |  |  |
| Name: | Andy Ng | / | Thomas Lam | Henry Lam SUPD/ COW |
| Date: | 21 July 2022 | / | 21-July-2022 | 21-July-2022 |

| | | | |
|------------------|---|--------------------|---------|
| Inspection Date: | 28 July 2022 | Inspected By: | Andy Ng |
| Time: | 15:00 – 15:30 | Weather Condition: | Sunny |
| Participants: | Mr. K.Y. Yip (Engineer's Representative); Thomas Lam (Contractor); Andy Ng (ET) | | |

| A | 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | EP No.: EP-505/2015/A |
| A2 | Are Construction Noise Permits available for inspection/posted at site entrance. | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | CNP No: GW-RS0245-22 |
| A3 | Is wastewater discharge licence available for inspection? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| A4 | Are trip tickets for chemical waste and construction waste disposal available for inspection? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| A5 | Are relevant licence/permit for disposal of construction waste or excavated materials available for inspection? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

| B | Air Quality | N/A or Not Observed | Yes | No | Remarks / Photo |
|-----|---|---|-------------------------------------|--------------------------|-----------------|
| B1 | Is open burning avoided? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| B2 | Are completed earthworks sealed as soon as practicable? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| B3 | Are plant and equipment well maintained (i. e. without black smoke from powered plant)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| B4 | Any remedial action undertaken? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| B5 | Observed dust source(s) | <input checked="" type="checkbox"/> Wind erosion <input type="checkbox"/> Vehicle/ Equipment Movements <input type="checkbox"/> Loading/ unloading of materials <input type="checkbox"/> Others: _____ | | | |
| B6 | Are unpaved areas/ designated roads watered regularly to avoid dust generation? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| B8 | After removal of stockpile, are the remained dusty materials wetted with water and cleared from surface of roads? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| B9 | Is the stockpile of dusty materials avoid to be extend beyond the pedestrian barriers, fencing or traffic cones? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| B10 | Are loaded dump trucks covered by impervious sheeting appropriately before leaving the site? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| B11 | Are wheel washing facilities with high pressure water jet provided at all site exits if practicable? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

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

| | | | | | |
|-----|--|--------------------------|-------------------------------------|--------------------------|--|
| B30 | Are designated roads paved? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| B31 | Are site vehicle movements confined to designated roads? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

| C | Noise | N/A or Not Observed | Yes | No | Remarks / Photo |
|-----|---|--|-------------------------------------|-------------------------------------|------------------------|
| C1 | Is well-maintained plant operated on-site and plant served regularly? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| C2 | Are vehicles and equipment switched off or throttled down while not in use? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| C3 | Is the noise directed away from nearby NSRs? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| C4 | Are the silencers or mufflers properly fitted on construction equipment and maintained regularly? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| C6 | Are material stockpiles, mobile container office and other structures utilised to screen noisy activities? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| C7 | Is temporary hoarding installed located on the site boundaries between noisy construction activities and NSRs? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 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? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Refer to Observation 1 |
| C9 | Is the sequencing operation of construction plants where practicable? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| C10 | Is the hoarding maintained properly? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| C11 | Do air compressors have valid noise labels? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Not Observed |
| C12 | Are compressor operated with doors closed? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| C13 | QPME used with valid noise labels? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| C14 | Major noise source(s) | <input type="checkbox"/> Traffic <input checked="" type="checkbox"/> Construction activities inside of site <input type="checkbox"/> Construction activities outside of site <input type="checkbox"/> Others: | | | |

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

| | | | | | |
|-----|--|-------------------------------------|-------------------------------------|--------------------------|---------------|
| D21 | Are site drainage systems provided over the entire project site with sediment control facilities? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| D24 | Is the treated wastewater reused for vehicle washing, dust suppression and general cleaning? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| D25 | Is the sewage generated from toilets collected using a temporary storage system? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| D26 | Is there any sediment plume observed in nearby watercourses? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Not observed. |
| D27 | Are slit-grease traps deployed to prevent a direct input of road surface runoff to the marine waters? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |

| E | 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| E2 | Is the general waste collected properly by using the waste separation facilities for paper, aluminium cans, plastic bottles etc.? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| E3 | Does accumulation of waste avoid? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| E4 | Is waste disposed regularly? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Construction Waste | | | | | |
| E5 | Are the temporary stockpiles maintained regularly? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| E6 | Is the excavated fill material reused for backfilling and reinstatement? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| E7 | Are the C&D materials sorted and recycled on-site? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| E8 | Is there any contract documents provided to allow and promote the use of recycled aggregates where appropriate? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Not observed. |
| E9 | Is the disposal of C&D materials avoided onto any sensitive locations e.g. agricultural lands etc.? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| E11 | Is the durable formwork or plastic facing for construction works used? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| E12 | Do the wooden hoardings avoid to be used? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| E13 | Is metal hoarding used to enhance the possibility of recycling? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| E14 | Is the segregation and storage of C&D wastes undertaken in designated are? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

| | | | | | |
|-------------------------------------|---|-------------------------------------|-------------------------------------|-------------------------------------|------------------------|
| E15 | Are waste storage area properly cleaned and do not cause windblown litter and dust nuisance? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| E16 | Do the excavated materials appear contaminated? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| E17 | If suspected contaminated, appropriate procedures followed? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| Chemical / Fuel Storage Area | | | | | |
| E18 | Are the fuel tanks and chemical storage areas provided with locks and sited on sealed areas? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| E19 | Are the storage area enclosed 3 sides by walls/ fence of $\geq 2\text{m}$ 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| E20 | Are the storage areas labelled and separated (if needed)? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| E21 | Do the storage areas have adequate ventilation and be covered to prevent rainfall entering? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| E23 | If no specification has been approved by EPD, are container with $<450\text{L}$ capacity provided for storage of chemicals waste? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| Chemical Waste / Waste Oil | | | | | |
| E24 | Is chemical waste or waste oil stored and labelled in English and Chinese properly in designated area? | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | Refer to Observation 3 |
| E25 | Are chemicals and waste oil recycled or disposed properly? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| E26 | Is waste oil collected and stored for recycling or disposal? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | N.A. |
| Records | | | | | |
| E27 | Is a licensed waste haulier used for waste collection? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| E28 | Are the records of quantities of wastes generated, recycled and disposed properly kept? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| E29 | For the demolition material/ waste, is the number of loads for each day recorded as appropriate? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | 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? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| F2 | Is damage to surrounding areas avoided? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| F3 | Is the hoardings with aesthetic treatment provided and designed to be subtle and camouflaged? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 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)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Not observed. |
| F5 | Are the protective fencing erected along or beyond the perimeter of the tree protection zone of each individual tree? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

| G | Environmental Complaint | N/A or Not Observed | Yes | No | Remarks / Photo |
|----------|--|----------------------------|-------------------------------------|--------------------------|------------------------|
| G1 | Number of Environmental Complaint received from 11/11/2021 to 28/07/2022 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

| H | General Housekeeping | N/A or Not Observed | Yes | No | Remarks / Photo |
|----------|--|-------------------------------------|-------------------------------------|--------------------------|------------------------|
| H1 | Are potential stagnant pools cleared and mosquito breeding prevented? | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Not Observed |
| H2 | Are the defined boundaries of working areas identified to prevent loss of vegetation | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

| I | Others | N/A or Not Observed | Yes | No | Remarks / Photo |
|----------|---|----------------------------|-------------------------------------|--------------------------|------------------------|
| I1 | Are the portable toilets maintained in a state, which will not deter the workers from utilizing these portable toilets? | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |

Follow up action for previous Site Inspection:

1. The Contractor cleaned up the public road. (Photo F1)
2. The Contractor scheduled watering for the work area. (Photo F2)
3. Oil stains were cleared and disposed of as chemical waste. (Photo F3 & F4)
4. Noise barrier was provided to generator. (Photo F5)

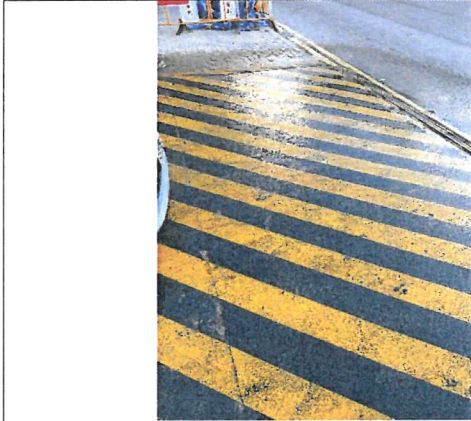


Photo F1



Photo F2



Photo F3



Photo F4



Photo F5

Observation(s):

1. The generators are observed without noise barriers. (Photo 1 & Photo 2)
2. Oil stains are observed under the machines. (Photo 3 & Photo 4)
3. Fuel containers are observed without drip trays. (Photo 5)



Photo 1



Photo 2



Photo 3






Photo 4



Photo 5

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

1. Noise barriers shall be provided to the generators within the site according to the CNMP.
2. Oil stains shall be cleared and disposed of as chemical waste.
3. Drip trays shall be provided to the fuel containers.

| | Environmental Team Representative: | IEC's Representative: | Contractor's Representative: | Engineer's Representative |
|------------|---|-----------------------|--|---|
| Signature: |  | / |  |  |
| Name: | Andy Ng | / | Thomas Lam | Henry Lam SUPD/ COW |
| Date: | 28 July 2022 | / | 28 28-July 2022 | 28-Jul-2022 |

Appendix 10

| 2022 | | August | | | | |
|--------|---|--|----------|--------|----------|--------|
| MONDAY | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY | SATURDAY | SUNDAY |
| 01 | 02 Noise Monitoring (NM1, NM2b and NM3) | 03 | 04 | 05 | 06 | 07 |
| 08 | 09 | 10 Noise Monitoring (NM1, NM2b and NM3) | 11 | 12 | 13 | 14 |
| 15 | 16 Noise Monitoring (NM1, NM2b and NM3) | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 Noise Monitoring (NM1, NM2b and NM3) | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 Noise Monitoring (NM1, NM2b and NM3) | 31 | 01 | 02 | 03 | 04 |
| 05 | 06 | Notes: The schedule is subject to change due to unforeseeable circumstances (e.g. adverse weather, etc.). | | | | |

Appendix 11

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

Prepared by:

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