


**Civil Engineering and Development Department**

**EP-337/2009 – New Distributor Roads Serving the Planned  
KTD**

**Contract No. KLN/2016/04  
Environmental Monitoring Works for  
Contract No. KL/2015/02  
Kai Tak Development – Stage 5A Infrastructure  
at Former North Apron Area**

**Final EM&A Review Report  
January 2017 to June 2025  
(Version 1.1)**

Approved By



(Environmental Team Leader)

REMARKS:

The information supplied and contained within this report is, to the best of our knowledge, correct at the time of printing.

CINOTECH accepts no responsibility for changes made to this report by third parties

**CINOTECH CONSULTANTS LTD**

Room 1710, Technology Park,  
18 On Lai Street,  
Shatin, NT, Hong Kong  
Tel: (852) 2151 2083 Fax: (852) 3107 1388  
Email: info@cinotech.com.hk



**FUGRO TECHNICAL SERVICES LIMITED**

19/F, Fugro House – KCC2  
1 Kwai On Road, Kwai Chung  
New Territories, Hong Kong

Date 24 July 2025

Our Ref. MCL/ED/0206/2025/C

Cinotech Consultants Limited  
Rm 1710, Technology Park,  
18 On Lai Street, Shatin,  
New Territories,  
Hong Kong

BY EMAIL

Attn.: Mr. K.S Lee

Dear Sir,

**Contract No. KL/2015/02**  
**Kai Tak Development –Stage 5A Infrastructure at Former North Apron**  
**Verification of Final EM&A Review Report**

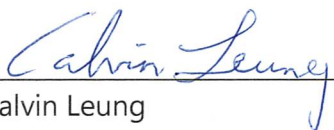
We refer to your emails dated 15, 17 and 23 July 2025 for the captioned report prepared by the ET.

We have no further comment and hereby verify the captioned report.

Should you require further information, please do not hesitate to contact the undersigned at 3565-4441.

Assuring you of our best attention at all times.

Yours faithfully,  
For and on behalf of  
FUGRO TECHNICAL SERVICES LIMITED

  
\_\_\_\_\_  
Calvin Leung

Independent Environmental Checker

CL/ws/ec

c.c. CEDD – Attn.: Mr. Ricky Chan      Mr. Michael Chan  
AECOM – Attn.: Mr. Vincent Lee      Mr. Teddy Shih

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## EXECUTIVE SUMMARY

### Introduction

1. This is the Final Environmental Monitoring and Audit (EM&A) Review Report prepared by Cinotech Consultants Limited for the “Contract No. KL/2015/02 - Kai Tak Development – Stage 5A Infrastructure at Former North Apron Area” (Hereafter referred to as “the Project”). This contract comprises one Schedule 2 designated project (DP), namely the new distributor road D1 serving the planned KTD. The DP is part of the designated project under Environmental Permit (EP) No.: EP-337/2009 (“New distributor roads serving the planned Kai Tak Development”) respectively. This report documents the findings of EM&A Works conducted in the period from January 2017 to June 2025.
2. With reference to the same principle of EIA report of the Project, air quality monitoring stations within 500m and noise monitoring stations within 300m from the boundary of this Project are considered as relevant monitoring locations. In such regard, the relevant air quality and noise monitoring locations are tabulated in **Appendix A**
3. The proposal for Termination of EM&A Programme under this Contract was justified by the ET Leader, verified by the IEC on 17 April 2025, verified by ER and PM on 6 May 2025, approved by EPD on 6 June 2025.
4. This Final EM&A Review Report summarizes the findings on the EM&A programme described above during the period between January 2017 to June 2025.

### Environmental Monitoring Works

5. Environmental monitoring for the Project was performed in accordance with the EM&A Manual and the monitoring results were checked and reviewed. Site Inspections/Audits were conducted once per week. The implementation of the environmental mitigation measures, Event Action Plans and environmental complaint handling procedures were also checked and reviewed. The performance of the environmental management system was considered satisfactory.
6. Summary of the non-compliance in the reporting period for the Project is tabulated in **Table I** and **Table II**.

**Table I Non-compliance Record for the Project in the Reporting Period (Site Inspections/Audits)**

Parameter	No. of non-compliance recorded	Action Taken
Site Inspections /Audits	0	N/A

**Table II Non-compliance Record for the Project in the Reporting Period (Environmental Monitoring)**

Parameter	No. of Exceedance		Action Taken
	Action Level	Limit Level	
1-hr TSP	0	0	N/A
24-hr TSP	1	0	N/A (As considered as non-project related)
Noise	0	0	N/A

**Key Information in the Reporting Period**

7. Summary of key information in the reporting period is tabulated in **Table III**.

**Table III Summary Table for Key Information in the Reporting Period**

Event	Event Details		Action Taken	Status	Remark
	Number	Nature			
Complaint received	1	Dust and dirty vehicles exiting construction site.	Wheels were cleaned; complaint non project-related. mitigation measures: cover or wet stockpiles, repair tarps, and add hard-surfaced road to public road.	Closed	---
Reporting Changes	0	---	N/A	N/A	---
Notifications of any summons & prosecutions received	0	---	N/A	N/A	---

8. Environmental monitoring works for the Project were considered effective and is generating data to categorically identify the environmental impacts from the works and influencing factors in the vicinity of monitoring stations. The practicality and effectiveness of the EIA process and EM&A programme was checked and reviewed. The performance of the environmental management system was considered satisfactory.

## 1. INTRODUCTION

### Background

- 1.1 The Kai Tak Development (KTD) is located in the south-eastern part of Kowloon Peninsula, comprising the apron and runway areas of the former Kai Tak Airport and existing waterfront areas at To Kwa Wan, Ma Tau Kok, Kowloon Bay, Kwun Tong and Cha Kwo Ling. It covers a land area of about 328 hectares. Stage 5A Infrastructure at Former North Apron Area is one of the construction stages of KTD. It contains one Schedule 2 DP including new distributor roads serving the planned KTD. The general layout of the Project is shown in **Figure 1**.
- 1.2 An Environmental Permit (EP) No. EP-337/2009 was issued on 23 April 2009 for new distributor roads serving the planned KTD to Civil Engineering and Development Department as the Permit Holder.
- 1.3 A study of environmental impact assessment (EIA) was undertaken to consider the key issues of air quality, noise, water quality, waste, land contamination, cultural heritage and landscape and visual impact, and identify possible mitigation measures associated with the works. An EIA Report (Register No. AEIAR-130/2009) was approved by the Environmental Protection Department (EPD) on 4 April 2009.
- 1.4 Cinotech Consultants Limited (Cinotech) was commissioned by Civil Engineering and Development Department (CEDD) to undertake the role of the Environmental Team (ET) for the Contract No. KL/2015/02 – Stage 5A Infrastructure at Former North Apron Area. The construction work under KL/2015/02 comprises the construction of part of the Road D1 under the EP (EP-337/2009).
- 1.5 Cinotech Consultants Limited was commissioned by Civil Engineering and Development Department (CEDD) to undertake the Environmental Monitoring and Audit (EM&A) works for the Project. The commencement date of construction of Road D1 (part) under this Contract was on 16 January 2017.
- 1.6 The proposal for Termination of EM&A Programme under this Contract was justified by the ET Leader, verified by the IEC on 17 April 2025, verified by Engineer's Representative (ER) and Project Proponent (PP) on 6 May 2025, approved by EPD on 6 June 2025.
- 1.7 This Final EM&A Review Report summarizes the findings on the EM&A programme described above during the period between January 2017 to June 2025.

## Project Organizations

1.8 Different parties with different levels of involvement in the project organization include:

- Project Proponent – Civil Engineering and Development Department (CEDD).
- The Engineer and the Engineer’s Representative (ER) – AECOM Asia Co. Ltd (AECOM).
- Environmental Team (ET) – Cinotech Consultants Limited (Cinotech).
- Independent Environmental Checker (IEC) – Fugro Technical Services Limited (FTS).
- Contractor – Peako - Wo Hing Joint Venture (PWHJV).

1.9 The key contacts of the Project are shown in **Table 1.1**.

**Table 1.1 Key Project Contacts**

Party	Role	Contact Person	Position	Phone No.	Fax No.
CEDD	Project Proponent	Mr. CHAN Wai Kit, Ricky	Senior Engineer	3579 2452	2739 0076
AECOM	Engineer’s Representative	Mr. Vincent Lee	Senior Resident Engineer	2798 0771	2210 6110
Cinotech	Environmental Team Leader	Mr. K.S Lee	Environmental Team Leader	2151 2091	3107 1388
		Ms. Betty Choi	Audit Team Leader	2151 2072	
FTS	Independent Environmental Checker	Mr. Calvin Leung	Independent Environmental Checker	3565 4441	2450 8032
PYTYJV	Contractor	Mr. W.M. Chen	Deputy Site Agent	9481 6698	2398 8301

1.10 The Organizational Structure for Environmental Management is shown in **Figure 1.2**

### Construction Activities undertaken during the Reporting Period

1.11 The construction works undertaken by Contract No. KL/2015/02 were commenced in January 2017 and substantially completed in April 2022. All outstanding works were also completed in March 2025. The scope of construction works completed by the Contractor is listed below:

## Major Site Activities under the Project

### EP- 337/2009 - Road D1(part)

- Construction of a single two-lane Road L7 of about 140 m long and a section of dual two-lane Road D1 of about 470 m long connecting with Concorde Road;
- Construction of a single-lane slip road S15 of about 160 m long linking the proposed Road D1 with existing flyover K72 for connection with PERE eastbound;
- Construction of a pedestrian subway SW6 of about 120 m long across PERE connecting the future preservation corridor for the Lung Tsun Stone Bridge remnants in KTD and Shek Ku Lung Road Playground;
- Construction of associated footpaths, street lighting, traffic aids, drainage including about 830 m long box culverts, sewerage, water mains, landscaping and ancillary works; and
- Implementation of environmental mitigation measures and related EM&A programme.

### Summary of EM&A Requirement

1.12 The EM&A programme requires construction noise monitoring, air quality monitoring, landscape and visual monitoring and environmental site audit. The EM&A requirements for each parameter are described in the following sections, including:

- All monitoring parameters;
- Action and Limit levels for all environmental parameters;
- Event Action Plans;
- Environmental requirements and mitigation measures, as recommended in the EM&A Manual under the EP.

### Weather Condition

1.13 The weather condition during the monitoring period is summarised in **Annex II**.

## 2. Air Quality

### Monitoring Requirements

- 2.1 According to EM&A Manual under the EP, 1-hour and 24-hour TSP monitoring were conducted to monitor the air quality for this Project. For regular impact monitoring, a sampling frequency of at least once in every six days at all of the monitoring stations for 24-hour TSP monitoring. For 1-hour TSP monitoring, the sampling frequency of at least three times in every six days shall be undertaken when the highest dust impact occurs. **Appendix A** shows the established Action/Limit Levels for the environmental monitoring works.

### Monitoring Locations

- 2.2 With reference to the EM&A Manual, one designated monitoring stations were selected for air quality monitoring programme. **Table 2.1** describes the air quality monitoring locations, which are also depicted in **Figure 2**.

**Table 2.1 Locations for Air Quality Monitoring**

Monitoring Stations	Location	Location of Measurement
AM2 <sup>(1)</sup> (1-hour TSP)	Lee Kau Yan Memorial School	Rooftop (about 8/F) Area
AM2(A) (24-hour TSP)	Ng Wah Catholic Secondary School	Rooftop (about 8/F) Area

Remarks:

(1):24-hour TSP air quality monitoring at AM2 was not accepted by the premise. 24-hour TSP air quality monitoring was relocated from AM2 to AM2(A) since August 2017

### Monitoring Methodology and QA/QC Procedure

#### *1-hour TSP Monitoring*

##### Measuring Procedures

- 2.3 The measuring procedures of the 1-hour dust meter are in accordance with the Manufacturer's Instruction Manual as follows:
- The 1-hour dust meter is placed at least 1.3 meters above ground.
  - Set POWER to "ON" and make sure that the battery level was not flash or in low level.
  - Allow the instrument to stand for about 3 minutes and then the cap of the air sampling inlet has been released.
  - Push the knob at MEASURE position.
  - Set time/mode setting to [BG] by pushing the time setting switch. Then, start the background measurement by pushing the start/stop switch once. It will take 6 sec. to complete the background measurement.
  - Push the time setting switch to change the time setting display to [MANUAL] at the bottom left of the liquid crystal display.

- Finally, push the start/stop switch to stop the measuring after 1 hour sampling.
- Information such as sampling date, time, count value and site condition were recorded during the monitoring period.

### Maintenance/Calibration

2.4 The following maintenance/calibration was required for the direct dust meters:

- Check and calibrate the meter by HVS to check the validity and accuracy of the results measured by direct reading method at 2-month intervals throughout all stages of the air quality monitoring.

### ***24-hour TSP Monitoring***

#### Instrumentation

2.5 High volume samplers (HVS) complete with appropriate sampling inlets was employed for 24-hour TSP monitoring. The sampler was composed of a motor, a filter holder, a flow controller and a sampling inlet and its performance specification complied with that required by USEPA Standard Title 40, Code of Federation Regulations Chapter 1 (Part 50).

2.6 The positioning of the HVS samplers are as follows:

- A horizontal platform with appropriate support to secure the samplers against gusty wind shall be provided;
- No two samplers shall be placed less than 2 meters apart;
- The distance between the sampler and an obstacle, such as buildings, must be at least twice the height that the obstacle protrudes above the sampler;
- A minimum of 2 metres of separation from walls, parapets and penthouses is required for rooftop samplers;
- A minimum of 2 metres of separation from any supporting structure, measured horizontally is required;
- No furnace or incinerator flue is nearby;
- Airflow around the sampler is unrestricted;
- The sampler is more than 20 metres from the dripline;
- Any wire fence and gate, to protect the sampler, shall not cause any obstruction during monitoring;
- Permission must be obtained to set up the samplers and to obtain access to the monitoring stations; and
- A secured supply of electricity is needed to operate the samplers.

### Operating/analytical procedures for the operation of HVS

2.7 Operating/analytical procedures for the air quality monitoring are highlighted as follows:

- Prior to the commencement of the dust sampling, the flow rate of the high-volume sampler was properly set (between 1.1 m<sup>3</sup>/min. and 1.4 m<sup>3</sup>/min.) in accordance with the manufacturer's instruction to within the range recommended in USEPA Standard Title 40, CFR Part 50.
- For TSP sampling, fiberglass filters with a collection efficiency of > 99% for particles of 0.3µm diameter were used.
- The power supply was checked to ensure the sampler worked properly. On sampling, the sampler was operated for 5 minutes to establish thermal equilibrium before placing any filter media at the designated air monitoring station.
- The filter holding frame was then removed by loosening the four nuts and a weighted and conditioned filter was carefully centred with the stamped number upwards, on a supporting screen.
- The filter was aligned on the screen so that the gasket formed an airtight seal on the outer edges of the filter. Then the filter holding frame was tightened to the filter holder with swing bolts. The applied pressure should be sufficient to avoid air leakage at the edges.
- The shelter lid was closed and secured with the aluminium strip.
- The timer was then programmed. Information was recorded on the record sheet, which included the starting time, the weather condition and the filter number (the initial weight of the filter paper can be found out by using the filter number).
- After sampling, the filter was removed and sent to the HOKLAS laboratory (High Precision Chemical Testing Limited) for weighing. The elapsed time was also recorded.
- Before weighing, all filters were equilibrated in a conditioning environment for 24 hours. The conditioning environment temperature should be between 25°C and 30°C and not vary by more than ±3°C; the relative humidity (RH) should be < 50% and not vary by more than ±5%. A convenient working RH is 40%.

### Maintenance/Calibration

2.8 The following maintenance/calibration was required for the HVS:

- The high-volume motors and their accessories were properly maintained. Appropriate maintenance such as routine motor brushes replacement and electrical wiring checking were made to ensure that the equipment and necessary power supply are in good working condition.
- High volume samplers were calibrated at bi-monthly intervals using TE-5025A Calibration Kit throughout all stages of the air quality monitoring.

### **Results and Observations**

2.9 The monitoring data and graphical presentations of 1-hour and 24-hour TSP monitoring results are shown in **Appendix C**.

Exceedance

- 2.10 A summary of exceedances is attached in **Appendix F**. The details of each exceedance were attached in the Monthly EM&A Reports. Should non-compliance of the construction dust occur, action by the Event Action Plan presented in **Appendix I** would be performed.
- 2.11 No exceedances of Action/Limit Level were recorded for the 1-hour TSP monitoring under the project.
- 2.12 One (1) exceedance of Action Level and No exceedance of Limit Level was recorded for the 24-hour TSP monitoring under the project. The Action level exceedance at AM2(A) was considered as non-project related. More details are summarised in the **Appendix F**.

Weather Condition

- 2.13 The weather condition during the monitoring period is summarised in **Annex II**.

Influencing Factors on the Monitoring Results

- 2.14 According to our field observations, the other major dust sources identified at the designated air quality monitoring stations are as follows:

**Table 2.2 Other Major Dust Sources during the Monitoring in the Reporting Period**

Monitoring Stations	Other Dust Source
AM2 <sup>(1)</sup> - Lee Kau Yan Memorial School	<ul style="list-style-type: none"> <li>• Road Traffic along Prince Edward Road East;</li> <li>• Non-project related construction activities at the other construction site nearby</li> <li>• Dust emission from nearby petrol station;</li> <li>• Sandstorm weather conditions.</li> </ul>
AM2(A) - Ng Wah Catholic Secondary School	<ul style="list-style-type: none"> <li>• Road Traffic along Prince Edward Road East and Choi Hung Road; and,</li> <li>• Non-project related construction activities at the other construction site nearby</li> <li>• Dust emission from nearby petrol station;</li> <li>• Sandstorm weather conditions.</li> </ul>

## Remarks:

(1):24-hour TSP air quality monitoring at AM2 was not accepted by the premise. 24-hour TSP air quality monitoring was relocated from AM2 to AM2(A) since August 2017

**Comparison of EM&A results with EIA predictions**

- 2.15 The EM&A data was compared with the EIA predictions and summarized in **Annex III**.
- 2.16 In the reporting period, the maximum 1-hour TSP concentration at all monitoring point was within the predicted levels in the EIA Report (AEIAR-130/2009).
- 2.17 In the reporting period, only one (1) measured 24-hour TSP concentration at AM2(A) was higher than the prediction in the EIA Report (AEIAR-130/2009), while all other measurements at all monitoring points were within the predicted levels.
- 2.18 The monitoring stations AM2(A) are not specified in the EIA Report as required monitoring locations.
- 2.19 The discrepancies between the EM&A data and EIA predictions were considered contributed from the other dust sources during the monitoring; i.e. the weather conditions, furnish work within the school, and non-projected related construction activities near the monitoring station.
- 2.20 Detailed records of exceeding the prediction in the approved EIA Report were presented in the Monthly EM&A Reports.
- 2.21 The baseline monitoring of KTD Development was conducted 15 years ago, and the ambient environmental conditions have changed significantly. Therefore, the return of ambient environmental conditions in comparison to baseline data may be unsuitable for concluding the EM&A program in this contract.

### 3. NOISE

#### Monitoring Requirements

- 3.1 According to the EM&A Manual, construction noise monitoring was conducted to monitor the construction noise arising from the construction activities. The regular monitoring frequency for each monitoring station shall be on a weekly basis and conduct one set of measurements between 0700 and 1900 hours on normal weekdays. **Appendix B** shows the established Action/Limit Levels for the environmental monitoring works.

#### Monitoring Locations

- 3.2 Seven designated monitoring stations were selected for the noise monitoring programme as stipulated in the EM&A Manual and the Brief.
- 3.3 **Table 3.1** describes the noise monitoring locations, which are also depicted in **Figure 3.2**.

**Table 3.1 Noise Monitoring Stations**

Monitoring Stations	Location	Level
M3 <sup>(1)</sup>	Cognitio College	Roof top
M3(A)	The Bridge connecting The Latitude	Skybridge (about 5/F)
M4	Lee Kau Yan Memorial School	Roof top
M5(C) <sup>(2)</sup>	Mercy Grace's Home	Roof top/Ground floor <sup>(2)</sup>

**Remark:**

(1) Due to the relocation of M3 Cognitio College to a new school building complex, the noise monitoring at M3 was relocated to the alternative noise monitoring locations M3(A), The Bridge connecting The Latitude from February 2020.

(2) Due to the outbreak of COVID-19, the noise monitoring at M5(C) was relocated from the rooftop of Mercy Grace's Home to the ground floor of Mercy Grace's Home since February 2020.

#### Monitoring Methodology and QA/QC Procedures

- 3.4 The monitoring procedures are as follows:
- The monitoring station was normally be at a point 1m from the exterior of the sensitive receivers building façade and be at a position 1.2m above the ground.
  - For free field measurement, the meter was positioned away from any nearby reflective surfaces. All records for free field noise levels were adjusted with a correction of +3 dB(A).
  - The battery condition was checked to ensure the correct functioning of the meter.
  - Parameters such as frequency weighting, the time weighting and the measurement time were set as follows:
    - Frequency weighting: A
    - Time weighting: Fast
    - Time measurement: 30 minutes
  - Prior to and after each noise measurement, the meter was calibrated using a

Calibrator for 94.0 dB at 1000 Hz. If the difference in the calibration level before and after measurement was more than 1.0 dB, the measurement would be considered invalid and repeat of noise measurement would be required after re-calibration or repair of the equipment.

- The wind speed was frequently checked with the portable wind meter.
- At the end of the monitoring period, the Leq, L90 and L10 were recorded. In addition, site conditions and noise sources were recorded on a standard record sheet.
- Noise monitoring would be cancelled in the presence of fog, rain, and wind with a steady speed exceeding 5 m/s, or wind with gusts exceeding 10 m/s. Supplementary monitoring would be provided to ensure sufficient data would be obtained.

### **Maintenance and Calibration**

- 3.5 The microphone head of the sound level meter and calibrator were cleaned with a soft cloth at quarterly intervals.
- 3.6 The sound level meter and calibrator were checked and calibrated at yearly intervals.
- 3.7 Immediately prior to and following each noise measurement the accuracy of the sound level meter shall be checked using an acoustic calibrator generating a known sound pressure level at a known frequency. Measurements may be accepted as valid only if the calibration levels from before and after the noise measurement agree to within 1.0 dB.

### **Results and Observations**

- 3.8 The graphical presentations of noise monitoring results are shown in **Appendix D**.

#### Exceedance

- 3.9 A summary of exceedances is attached in **Appendix F**. Should non-compliance of the construction noise impact occur, action by the Event Action Plan presented in **Appendix I** would be performed.
- 3.10 No Action Level exceedance was recorded due to the documented complaint received under this contract during the reporting period.
- 3.11 No Limit level exceedance for daytime construction noise monitoring was recorded under the project.

#### Influencing Factors on the Monitoring Results

- 3.12 According to our field observations, the other major dust source identified at the designated air quality monitoring stations are presented in **Table 3.2**.

**Table 3.2 Other Major Noise Sources during the Monitoring in the Reporting Period**

Monitoring Stations	Major Noise Source
M3	<ul style="list-style-type: none"> <li>• Road Traffic along Prince Edward Road East;</li> <li>• Construction works of the nearby Inland Revenue Tower;</li> <li>• Non-project related construction activities and vehicle movement at the other construction site nearby</li> </ul>
M3(A)	<ul style="list-style-type: none"> <li>• Road Traffic along Prince Edward Road East and Choi Hung Road; and,</li> <li>• Construction works of the nearby Inland Revenue Tower;</li> <li>• Non-project related construction activities and vehicle movement at the other construction site nearby</li> </ul>
M4	<ul style="list-style-type: none"> <li>• Road Traffic along Prince Edward Road East Olympic Avenue; and,</li> <li>• Construction works of the nearby Inland Revenue Tower;</li> <li>• Non-project related construction activities and vehicle movement at the other construction site nearby</li> </ul>
M5(C)	<ul style="list-style-type: none"> <li>• Road Traffic along Prince Edward Road East, Ma Tau Chung Road and Argyle Street; and,</li> <li>• Construction works of the nearby Inland Revenue Tower;</li> <li>• Non-project related construction activities and vehicle movement at the other construction site nearby</li> </ul>

### Comparison of EM&A results with EIA predictions

- 3.13 The monitoring data shown comparison of EM&A Data and EIA predication are shown in **Annex III**.
- 3.14 The noise monitoring results in the reporting period at M3 and M4 were within the predicted mitigated construction noise levels in the EIA Report.
- 3.15 The monitoring stations M3(A) and M5(C) are not specified in the EIA Report as required monitoring locations.
- 3.16 Detailed records of exceeding the prediction in the approved EIA Report were presented in the Monthly EM&A Reports.
- 3.17 The baseline monitoring of KTD Development was conducted 15 years ago, and the ambient environmental conditions have changed significantly. Therefore, the return of ambient environmental conditions in comparison to baseline data may be unsuitable for concluding the EM&A program in this contract.

#### **4. Water Quality**

##### **Monitoring Requirement**

- 4.1 According to the Section 3.9.8 of EIA Report (AEIAR-130/2009), no water quality monitoring is required during the construction phase.
- 4.2 Site audits were carried out on a weekly basis to monitor and audit the timely implementation of water quality control measures within the site boundaries of this Project. The summaries of site audits are attached in **Appendix I**.

#### **5. Landscape and Visual Impact**

##### **Monitoring Requirement**

- 5.1 According to EM&A Manual of the Kai Tak Development EIA Study, ET shall monitor and audit the contractor's operation during the construction period on a weekly basis, and to report on the contractor's compliance.

##### **Results and Observations**

- 5.2 Site audits were conducted on a weekly basis to monitor the timely implementation of landscape and visual mitigation measures within the site boundaries of this Project.
- 5.3 No non-compliance of the landscape and visual impact was recorded in this Project.

#### **6. Environment Audit**

##### **Site inspection**

- 6.1 Site audits were carried out on a weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site.
- 6.2 All the follow-up actions requested by Contractor's ET and IEC during the site inspections were undertaken as reported by the Contractor and confirmed in the following weekly site inspection conducted during each reporting month.

##### **Review of Environmental Monitoring Procedures**

- 6.3 The monitoring works conducted by the monitoring team were inspected regularly. The following observations have been recorded for the monitoring works:

*Air Quality Monitoring*

- The monitoring team recorded all observations around the monitoring stations within and outside the construction site.
- The monitoring team recorded the temperature and weather conditions on the monitoring days.

*Noise Monitoring*

- The monitoring team recorded all observations around the monitoring stations, which might affect the monitoring result.
- Major noise sources were identified and recorded. Other intrusive noise attributing to the result was trimmed off by pausing the monitoring temporarily.

**Implementation Status of Environmental Mitigation Measures**

- 6.4 Relevant mitigation measures as recommended in the project EIA report have been stipulated in the EM&A Manual for the Contractor to implement. The implementation status of environmental mitigation measures (EMIS) is given in **Appendix E**.
- 6.5 The EM&A programme was found effective in monitoring the environmental impacts of this project. Data collection was useful in determining whether the project has caused unacceptable impacts on the sensitive receivers. The impact monitoring data indicated whether exceedances would occur and helped determine whether the works' exceedances were due.

**Review of the Reasons for and the Implications of Non-compliance**

- 6.6 There was no non-compliance from the site audits under the project. The observations and recommendations made in each individual site audit session were attached in the Monthly EM&A Reports.

**Summary of Environmental Complaints, Notification of Summons and Prosecutions**

- 6.7 One (1) complaint regarding dust emission was recorded on 23 October 2017. The complaint was about dust from site vehicles and dry roads. Wheel washing, water spraying, and stockpile covering were implemented before and throughout the complaint period. The case was referred to EPD, considered non-project-related, and no prosecution was made.
- 6.8 No summonses complaints regarding site activities under this project were received during the construction period.
- 6.9 The summaries of environmental complaint, warning, summons and notification of successful prosecution for the Project are presented in **Appendix G**.

## **Waste Management**

- 6.10 C&D materials and wastes sorting were carried out on site. Receptacles were available for C&D wastes and general refuse collection.
- 6.11 The amount of wastes generated by the site activities in the reporting period is shown in **Appendix H**.
- 6.12 The Contractor is advised to properly maintain on site C&D materials and wastes collection, sorting and recording system and maximize reuse / recycle of C&D materials and wastes.
- 6.13 The Contractor is reminded that chemical waste containers should be properly treated and stored temporarily in designated chemical waste storage area on site in accordance with the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes.

## 7. COMMENTS, CONCLUSIONS AND RECOMMENDATIONS

### **Effectiveness of Monitoring Methodology and Mitigation Measures**

- 7.1 The EM&A program requires construction phase monitoring for air quality, construction noise and environmental site audit. According to the environmental monitoring data obtained during this project and Event Action Plans, investigations of non-compliance(exceedance) were conducted and timely mitigation measures were implemented.
- 7.2 In addition, weekly site inspections were conducted to ensure the implementation and efficiency of the mitigation measures. As a result, an environmental nuisance to the public could be reduced to a minimum.
- 7.3 Therefore, the overall performance of the monitoring methodology adopted and environmental management system in the project was effective.

### **Overall EM&A Data**

- 7.4 No non-compliance was identified during site inspections under the project.

#### *Air quality monitoring.*

- 7.5 No exceedance of Action/Limit Level was recorded for the 1-hour TSP monitoring under the project.
- 7.6 One (1) exceedance of Action and No Limit Level was recorded for the 24-hour TSP monitoring under the project; however, no direct evidence linked it to site works, and the exceedance was considered non-project related.

#### *Construction noise monitoring.*

- 7.7 No Action Level exceedance was recorded due to the documented complaint received under this contract during under the project. No Limit level exceedance for daytime construction noise monitoring was recorded under the project.
- 7.8 One (1) environmental complaint on site activities under this project was received during the construction period.
- 7.9 No notifications of summons and environmental prosecutions were received under the project.

## **Conclusion and Recommendation**

- 7.10 The recommended environmental mitigation measures, as proposed in the EIA reports and EM&A Manuals shall be effectively implemented to minimize the potential environmental impacts from the Project. The EM&A programme would effectively monitor the environmental impacts generated from the construction activities and ensure the proper implementation of mitigation measures.
- 7.11 With the success of the overall EM&A programme, the deterioration of the environment caused by the Project was cost-effectively identified and necessary prompt effective mitigation measures were implemented to avoid any unacceptable impacts. In conclusion, the Project was environmentally acceptable.

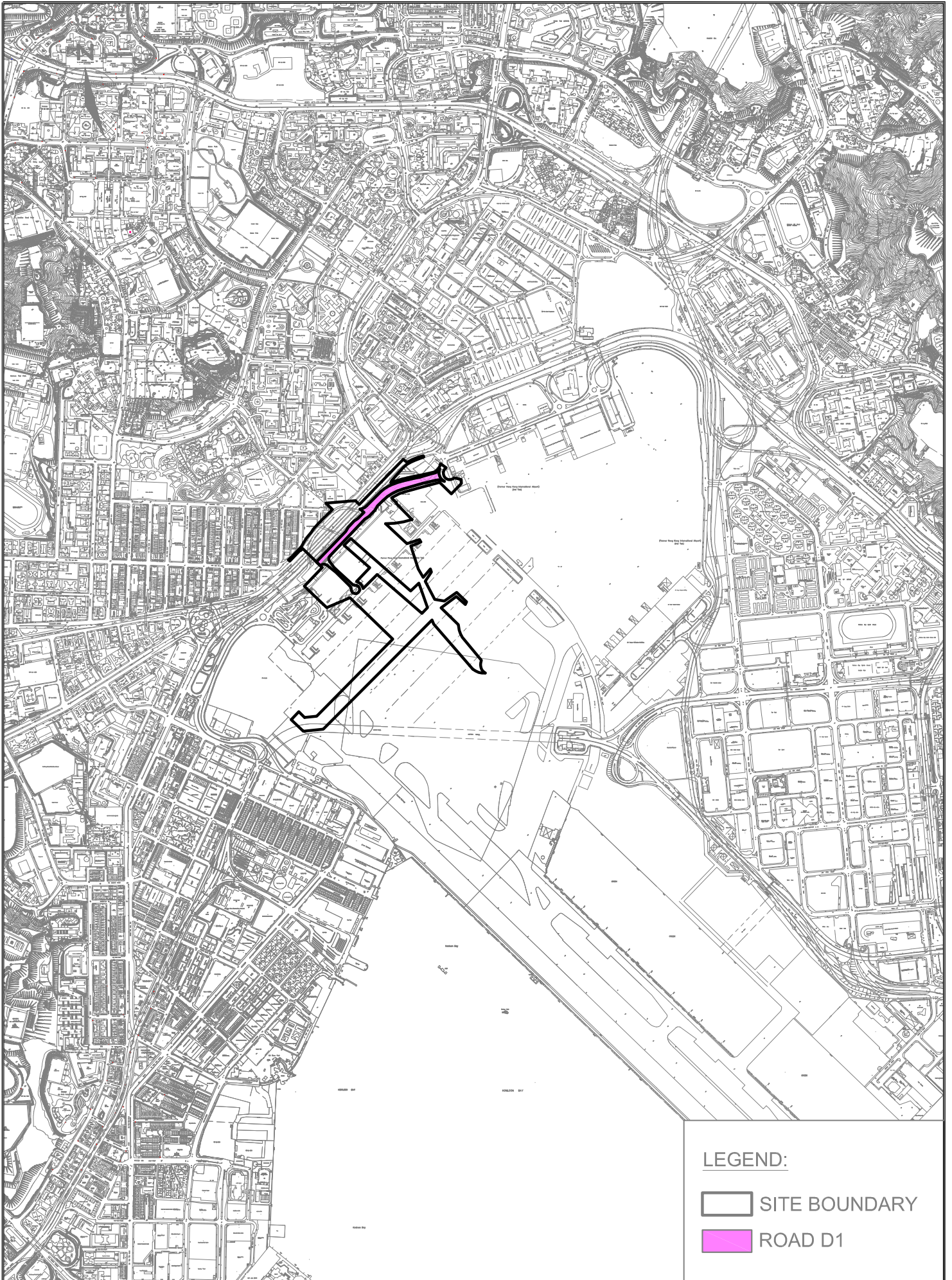
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## FIGURES

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**LEGEND:**

 SITE BOUNDARY

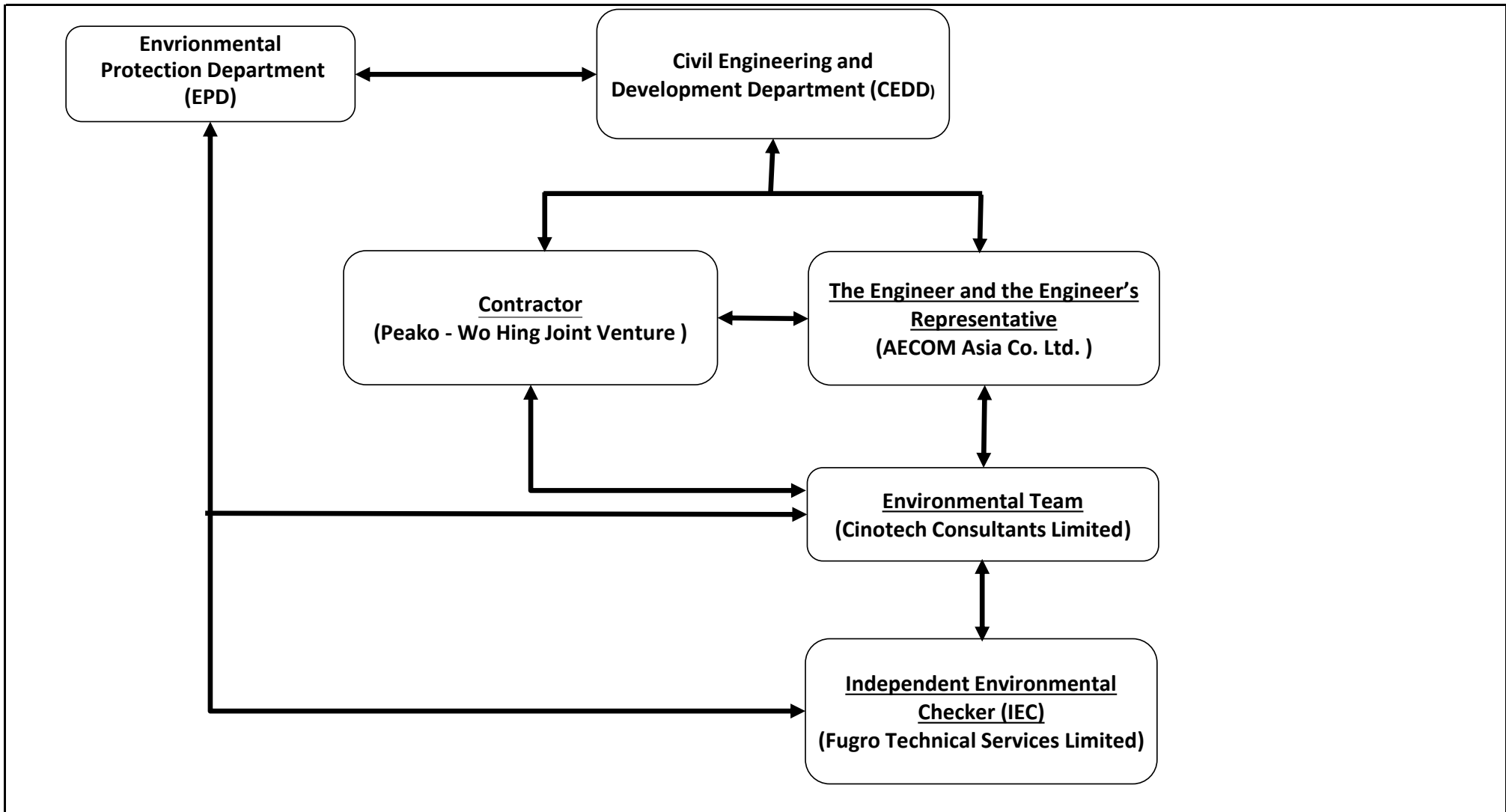
 ROAD D1



KL/2015/02 KAI TAK - STAGE 5A INFRASTRUCTURE  
AT FORMER NORTH APRON AREA

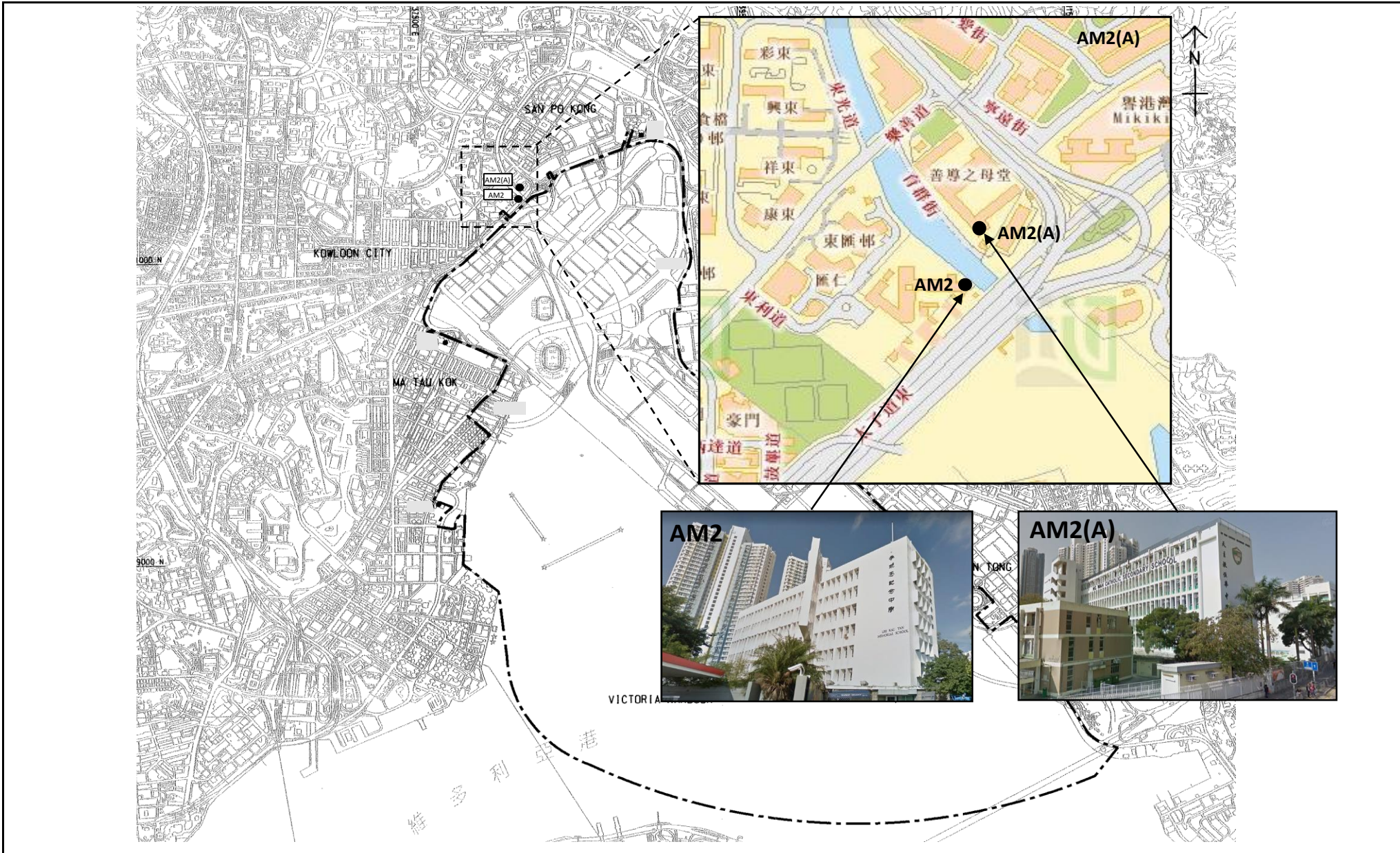
**SITE LAYOUT PLAN**

SCALE	1:1500@A4	DATE	DEC 2016
CHECK	KC	DRAWN	JW
JOB No.	MA16043	FIGURE NO.	1
		REV	-

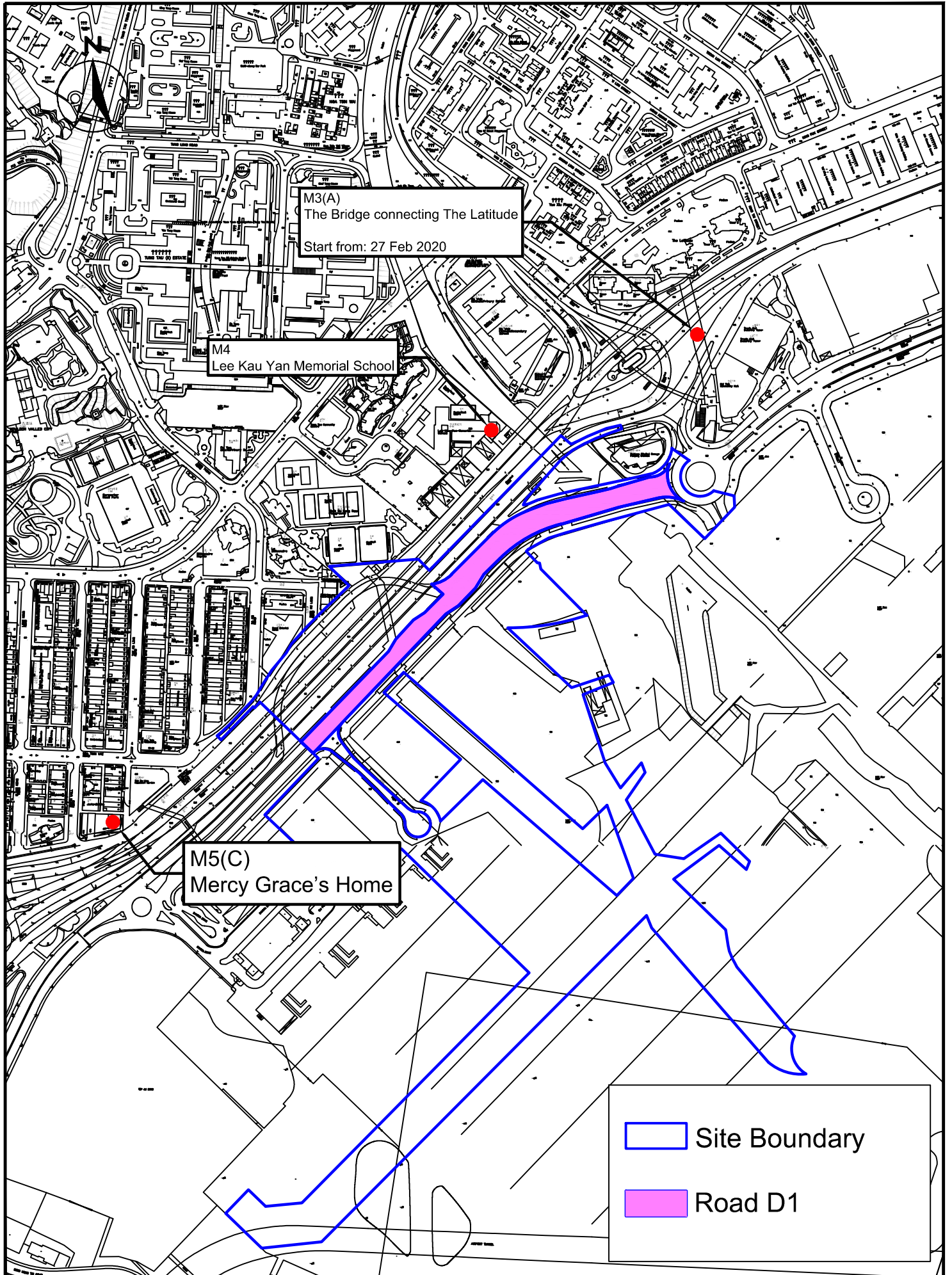


<b>Title</b>	Contract No. KLN/2016/04		Scale	Project
	Environmental Monitoring Works for Contract No. KL/2015/02		N.T.S	No. MA16043
Kai Tak Development – Stage 5A Infrastructure at Former North Apron Area				
<b>Organization Chart</b>			Date	Figure
			Jun-25	1.2

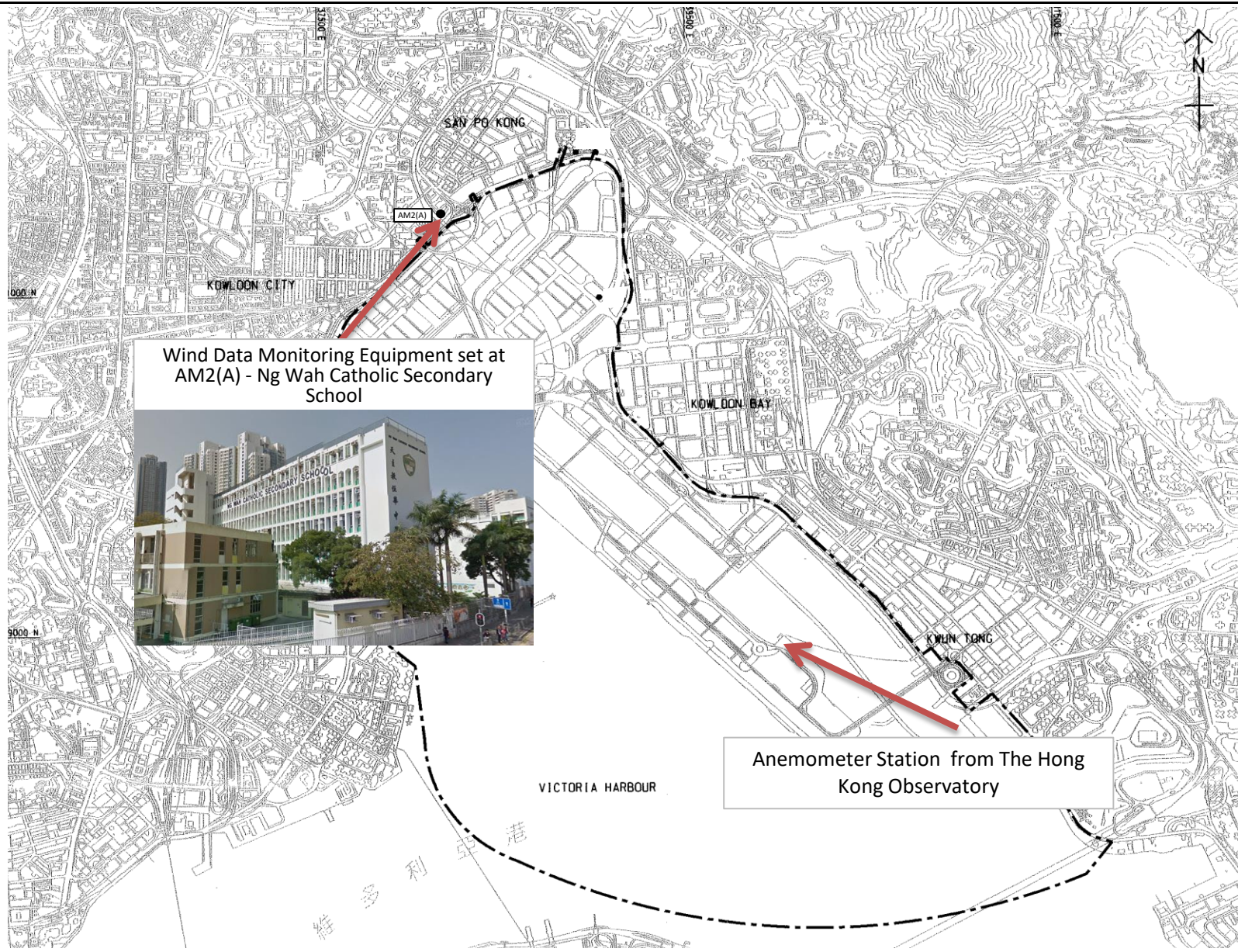




Title	Contract No. KLN/2016/04		Scale	Project	CINOTECH
	Environmental Monitoring Works for Contract No. KL/2015/02		N.T.S	No. MA16043	
Kai Tak Development – Stage 5A Infrastructure at Former North Apron Area			Date	Figure	
Location of Air Quality Monitoring Stations			Aug-17	2	



SCALE	1:5000@A4	DATE	Mar 2020
CHECK	KC	DRAWN	CC
JOB No.	MA16043	FIGURE NO.	3
		REV	-



Wind Data Monitoring Equipment set at AM2(A) - Ng Wah Catholic Secondary School



Anemometer Station from The Hong Kong Observatory

Title Contract No. KLN/2016/04 Environmental Monitoring Works for Contract No. KL/2015/02 Kai Tak Development – Stage 5A Infrastructure at Former North Apron Area Location of Wind Data Monitoring Equipment	Scale	N.T.S	Project No.	MA16043
	Date	Aug-17	Figure	4



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**APPENDIX A  
MONITORING REQUIREMENTS**

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**Appendix A - Environmental Impact Monitoring Requirements**

Type of Monitoring	Parameter	Frequency	Location	Measurement Conditions
Air Quality	1 hour TSP	Three times / 6 days	<ul style="list-style-type: none"> <li>• AM2 – Lee Kau Yan Memorial School</li> </ul>	<ul style="list-style-type: none"> <li>• AM2 – Roof top</li> <li>• AM2(A) – Roof top</li> </ul>
	24 hour TSP	Once / 6 days	<ul style="list-style-type: none"> <li>• AM2 – Lee Kau Yan Memorial School *</li> <li>• AM2(A) – Ng Wah Catholic Secondary School</li> </ul>	

Remarks:

- Due to 24-hour TSP air quality monitoring at AM2 was not accepted by the premise, the 24-hour TSP air quality monitoring was relocated from AM2 to AM2(A) since August 2017.

**Appendix A - Environmental Impact Monitoring Requirements**

Type of Monitoring	Parameter	Frequency	Location	Measurement Conditions
Construction Noise	L <sub>eq</sub> , L <sub>90</sub> & L <sub>10</sub> at 30 minute intervals during (0700 to 1900 on normal weekdays)	Once / week	<ul style="list-style-type: none"> <li>• M3 – Cognito College*</li> <li>• M3(A) – The Bridge connecting The Latitude</li> <li>• M4 – Lee Kau Yan Memorial School</li> <li>• M5(C) – Mercy Grace’s Home<sup>#</sup></li> </ul>	<ul style="list-style-type: none"> <li>• M3 – Roof top</li> <li>• M3(A) – Open area at the bridge</li> <li>• M4 – Roof top</li> <li>• M5(C) – Ground floor/ Roof top</li> </ul>

Remarks:

\* Due to the relocation of M3 Cognito College to a new school building complex, the noise monitoring at M3 was relocated to the alternative location M3(A), The Bridge connecting the Latitude from February 2020.

# Due to the outbreak of COVID-19, the noise monitoring at M5(C) was relocated from the rooftop top of Mercy Grace's Home to the ground floor of Mercy Grace's Home since February 2020.

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**APPENDIX B  
ACTION AND LIMIT LEVELS FOR AIR  
QUALITY AND NOISE**

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## Appendix B - Action and Limit Levels

**Table B-1 Action and Limit Levels for 1-hour TSP**

Location	Action Level, $\mu\text{g}/\text{m}^3$	Limit Level, $\mu\text{g}/\text{m}^3$
AM2	346	500

**Table B-2 Action and Limit Levels for 24-hour TSP**

Location	Action Level, $\mu\text{g}/\text{m}^3$	Limit Level, $\mu\text{g}/\text{m}^3$
AM2	157	260
AM2(A)	157	260

Remarks:

24-hour TSP air quality monitoring at AM2 was not accepted by the premise. 24-hour TSP air quality monitoring was relocated from AM2 to AM2(A) since August 2017

**Table B-3 Action and Limit Levels for Noise during Construction Period**

Time Period	Action Level	Limit Level
0700-1900 hrs on normal weekdays	When one documented complaint is received	75 dB(A) 70 dB(A)/65 dB(A)*

Remarks:

if works are to be carried out during restricted hours, the conditions stipulated in the Construction Noise Permit (CNP) issued by the Noise Control Authority have to be followed. \*70dB(A) and 65dB(A) for schools during normal teaching periods and school examination periods, respectively.

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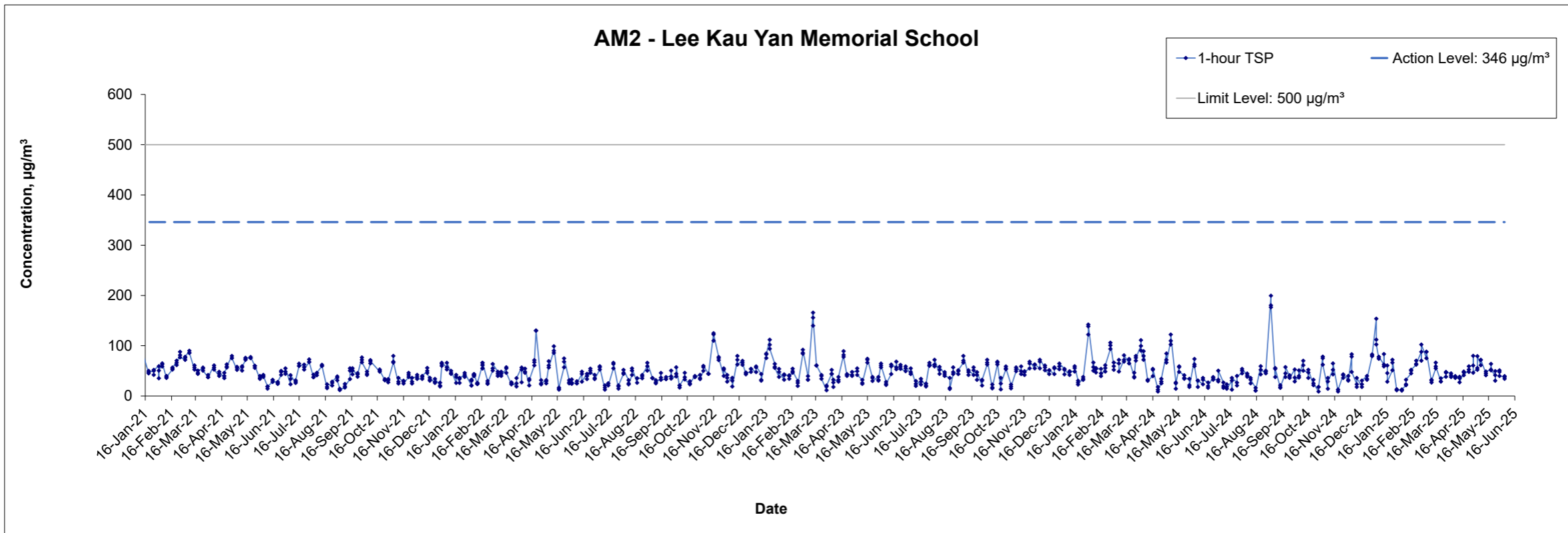
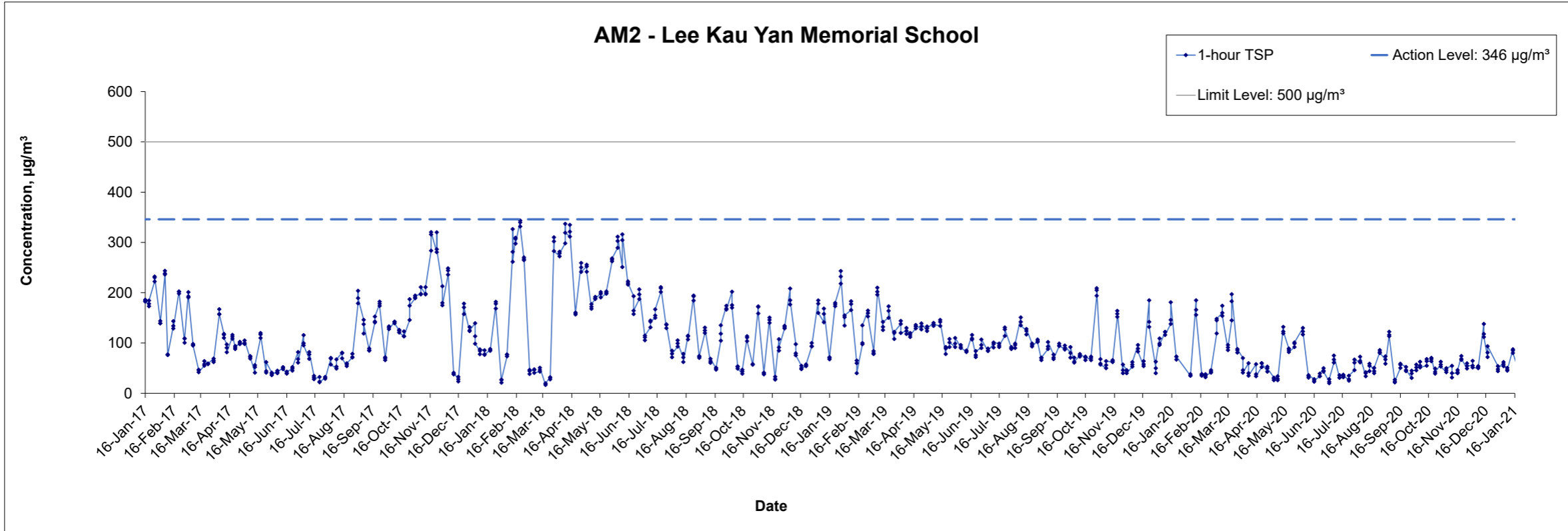
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**APPENDIX C  
GRAPHICAL PRESENTATION OF AIR  
QUALITY MONITORING RESULTS**

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1-hr TSP Concentration Levels



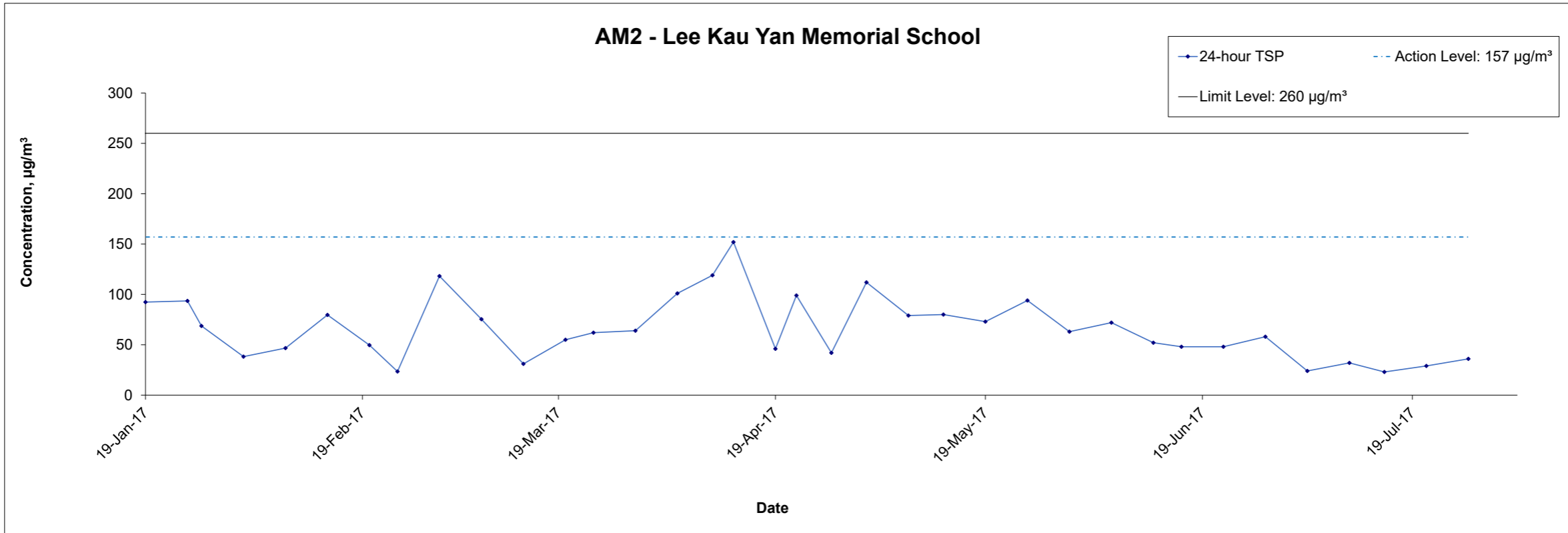
Contract No. KLN/2016/04  
 Environmental Monitoring Works for Contract No. KL/2015/02  
 Kai Tak Development –Stage 5A Infrastructure at Former North Apron Area

Graphical Presentation of 1-hour TSP Monitoring Results

Scale	N.T.S	Project No.	MA16043
Date	Jan 2017 to Jun 2025	Appendix	C



24-hr TSP Concentration Levels



Remark(1):24-hour TSP air quality monitoring at AM2 was not accepted by the premise. 24-hour TSP air quality monitoring was relocated from AM2 to AM2(A) since August 2017.

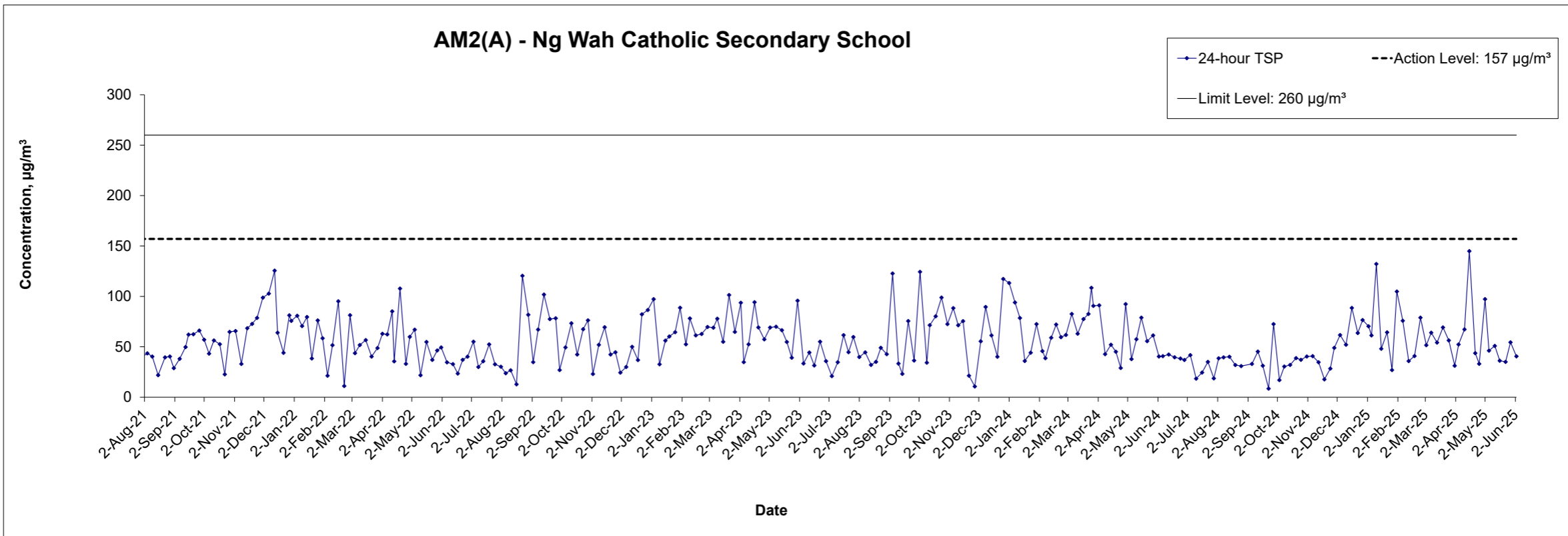
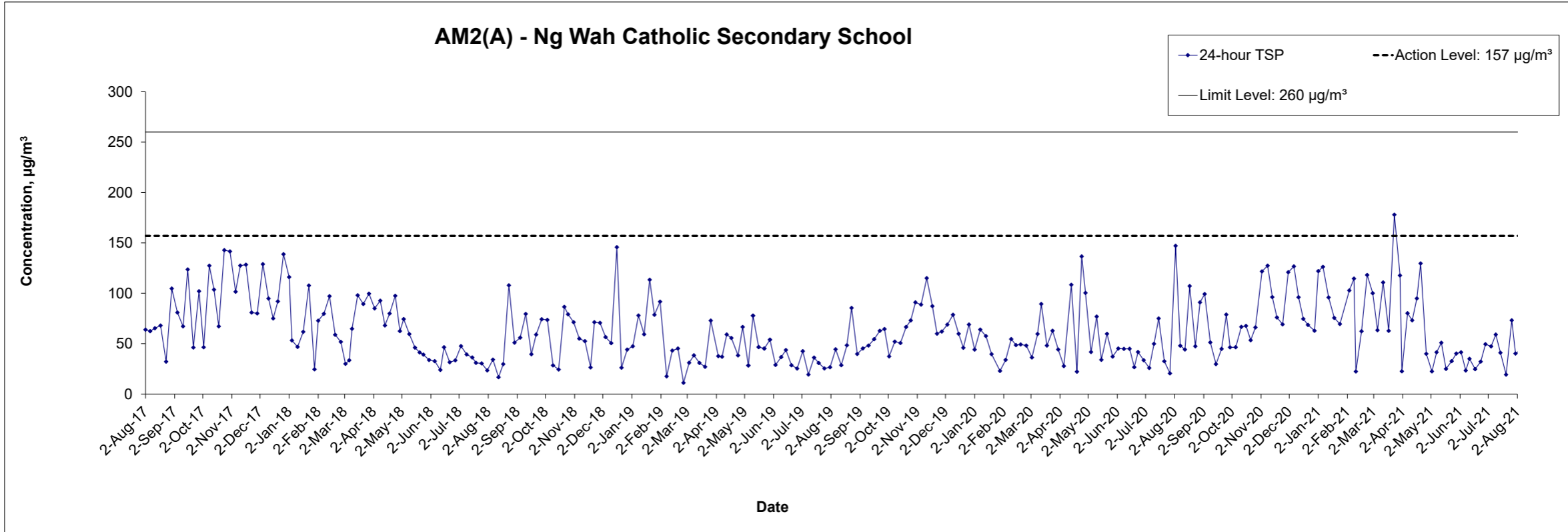
Contract No. KLN/2016/04  
 Environmental Monitoring Works for Contract No. KL/2015/02  
 Kai Tak Development –Stage 5A Infrastructure at Former North Apron Area

Graphical Presentation of 24-hour TSP Monitoring Results

Scale	N.T.S	Project No.	MA16043
Date	Jan 2017 to Jun 2025	Appendix	C



24-hr TSP Concentration Levels



Remark(1):24-hour TSP air quality monitoring at AM2 was not accepted by the premise. 24-hour TSP air quality monitoring was relocated from AM2 to AM2(A) since August 2017.

Contract No. KLN/2016/04 Environmental Monitoring Works for Contract No. KL/2015/02 Kai Tak Development –Stage 5A Infrastructure at Former North Apron Area  Graphical Presentation of 24-hour TSP Monitoring Results	Scale	N.T.S	Project No.	MA16043	
	Date	Jan 2017 to Jun 2025	Appendix	C	

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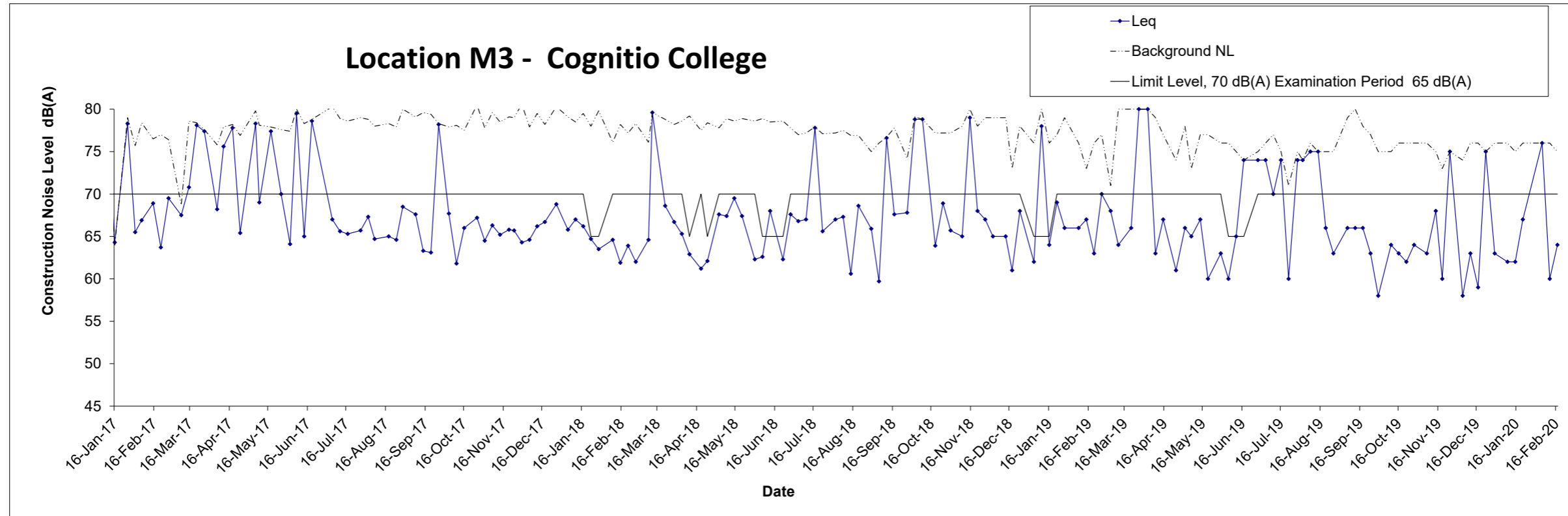
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**APPENDIX D  
GRAPHICAL PRESENTATION OF  
NOISE MONITORING RESULTS**

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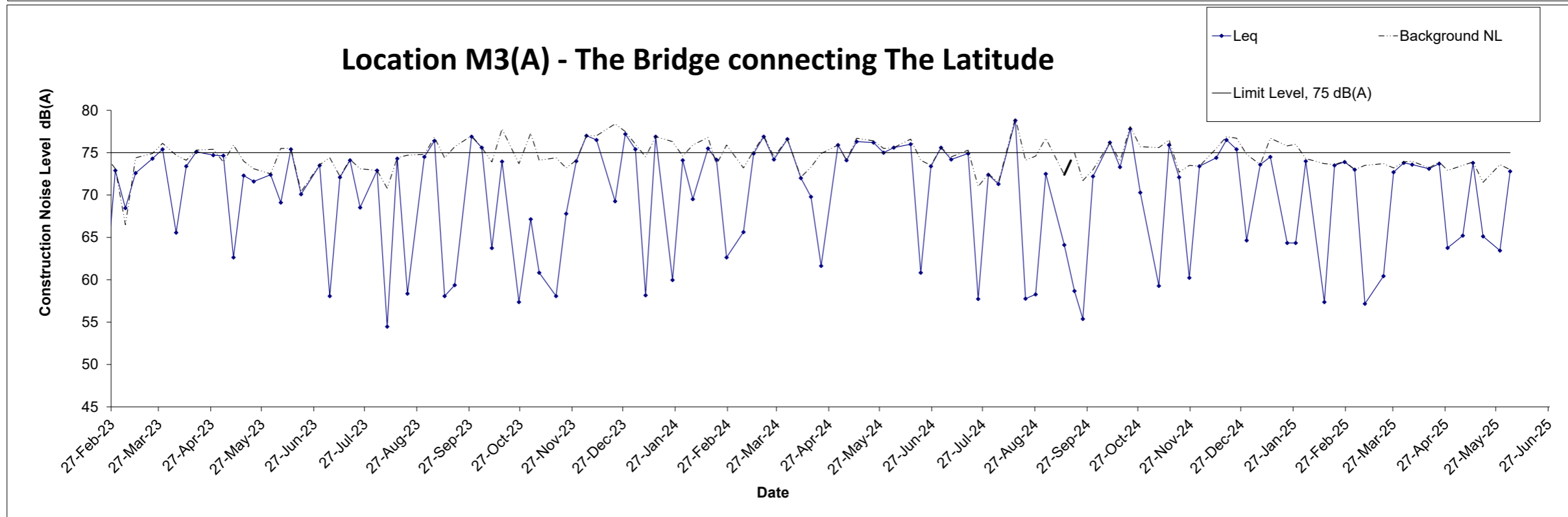
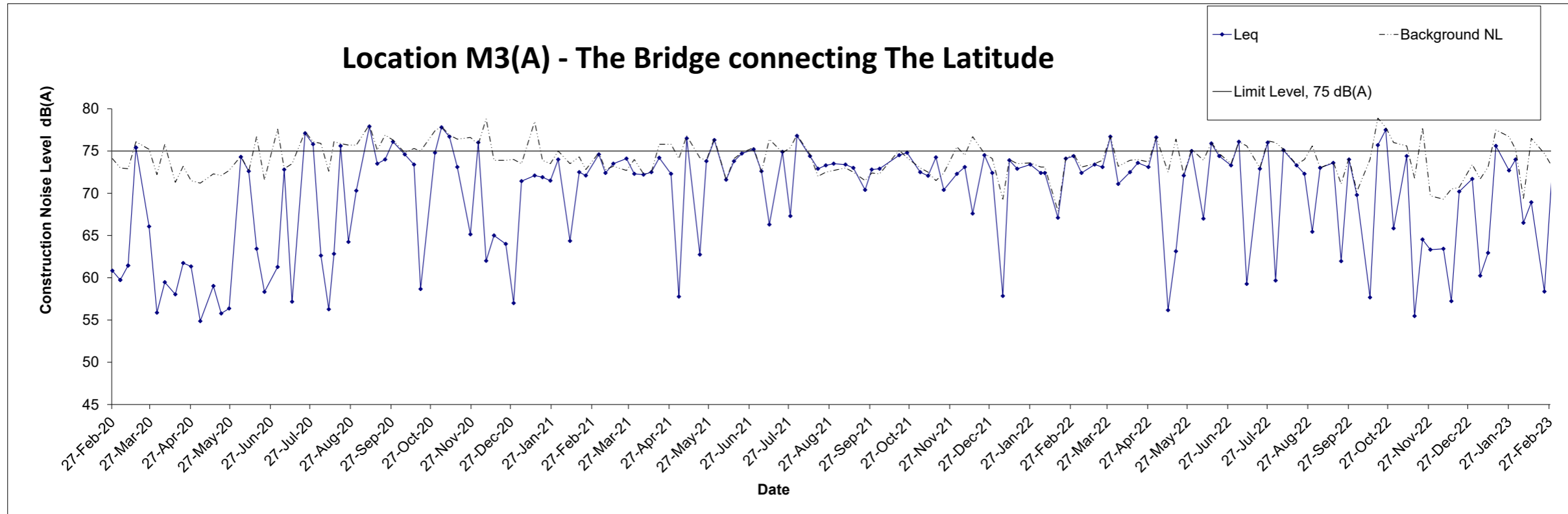
Noise Levels



Remark: Due to the relocation of M3 Cognito College to a new school building complex, the noise monitoring at M3 was relocated to the alternative noise monitoring locations M3(A), The Bridge connecting The Latitude from February 2020.

Contract No. KLN/2016/04 Environmental Monitoring Works for Contract No. KL/2015/02 Kai Tak Development –Stage 5A Infrastructure at Former North Apron Area  Graphical Presentation of Construction Noise Monitoring Results	Scale	N.T.S	Project No.	MA16043	
	Date	Jan 2017 to Jun 2025	Appendix	D	

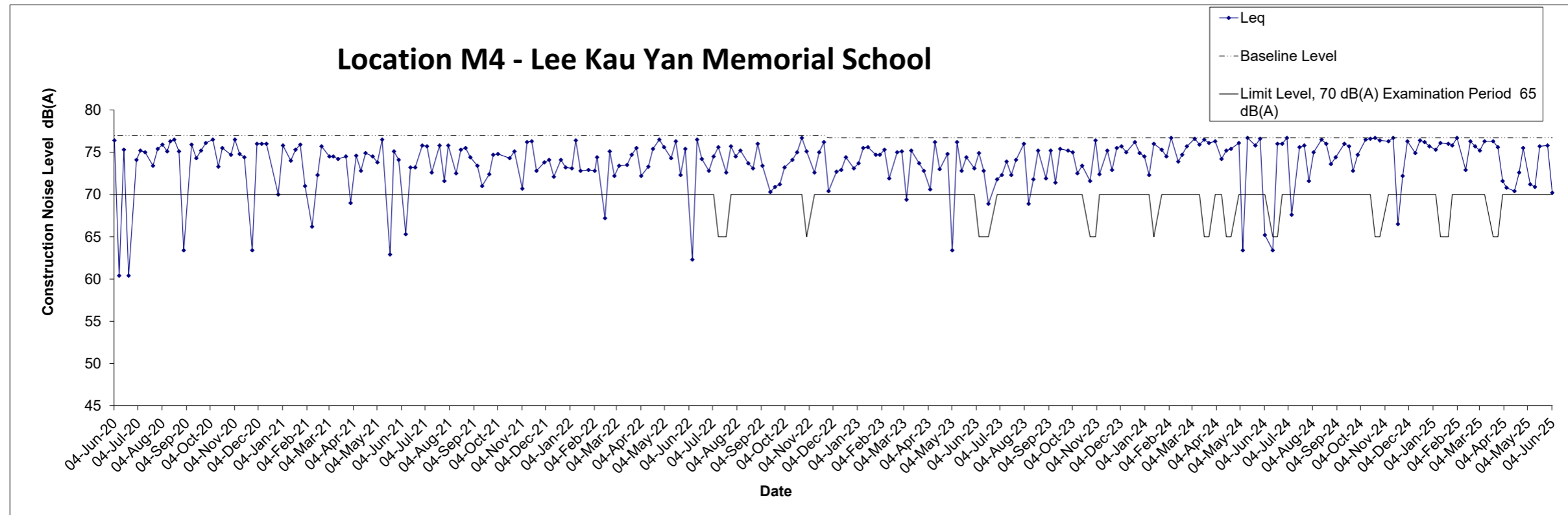
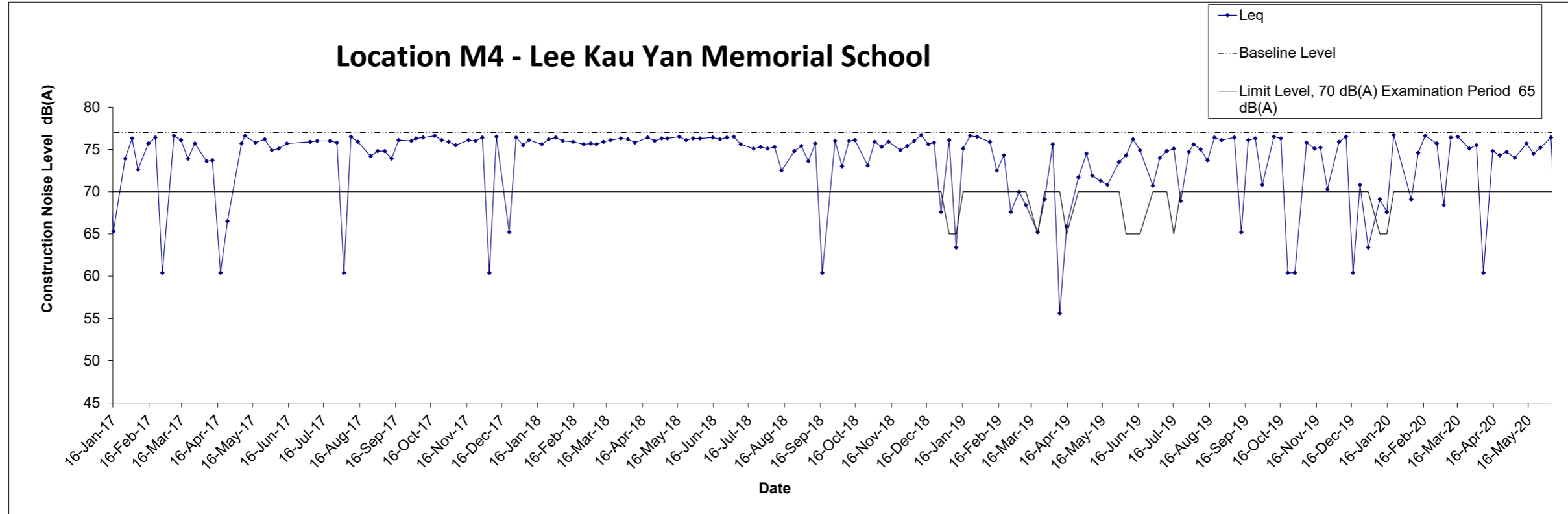
Noise Levels



Remark: Due to the relocation of M3 Cognitio College to a new school building complex, the noise monitoring at M3 was relocated to the alternative noise monitoring locations M3(A), The Bridge connecting The Latitude from February 2020.

Contract No. KLN/2016/04 Environmental Monitoring Works for Contract No. KL/2015/02 Kai Tak Development –Stage 5A Infrastructure at Former North Apron Area  Graphical Presentation of Construction Noise Monitoring Results	Scale	N.T.S	Project No.	MA16043	
	Date	Jan 2017 to Jun 2025	Appendix	D	

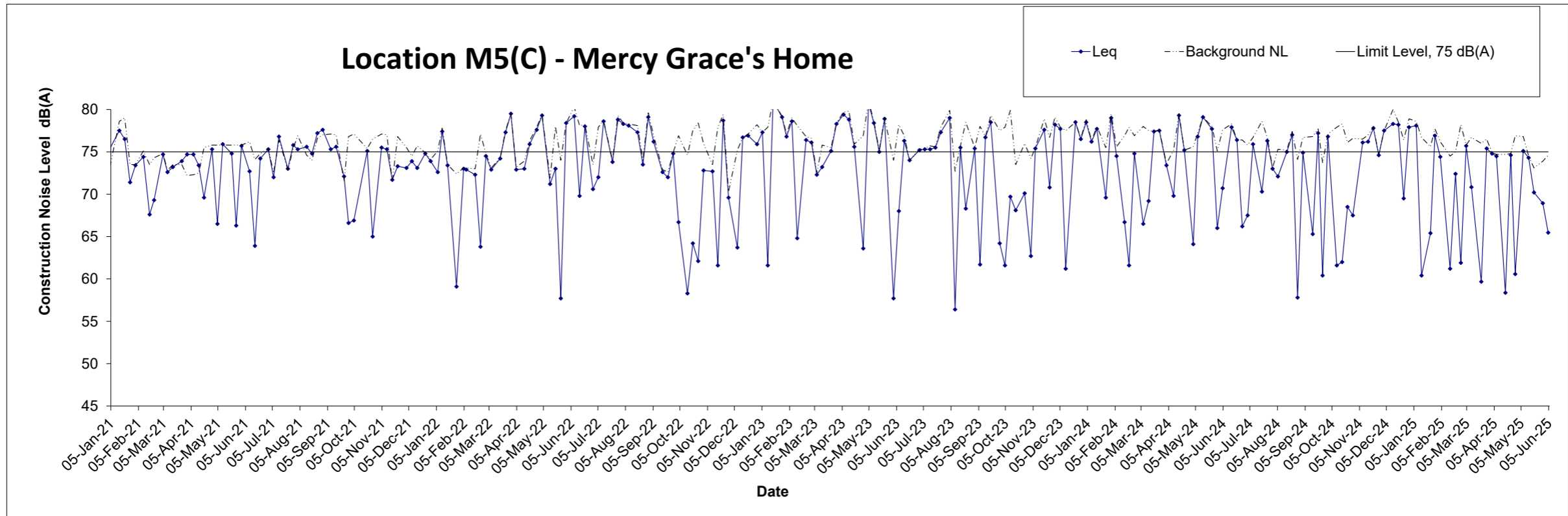
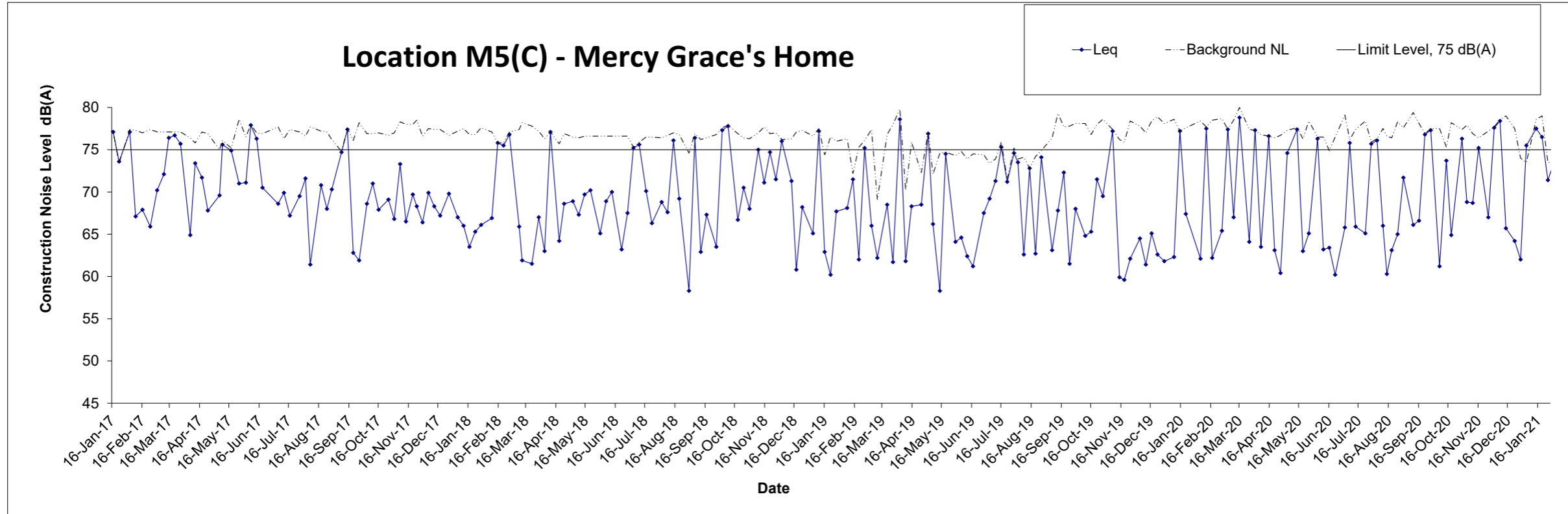
Noise Levels



Remark: Due to the relocation of M3 Cognito College to a new school building complex, the noise monitoring at M3 was relocated to the alternative noise monitoring locations M3(A), The Bridge connecting The Latitude from February 2020.

Contract No. KLN/2016/04 Environmental Monitoring Works for Contract No. KL/2015/02 Kai Tak Development –Stage 5A Infrastructure at Former North Apron Area	Scale N.T.S	Project No. MA16043	CINOTECH
Graphical Presentation of Construction Noise Monitoring Results	Date Jan 2017 to Jun 2025	Appendix D	

Noise Levels



Remark: Due to the outbreak of COVID-19, the noise monitoring at M5(C) was relocated from the rooftop top of Mercy Grace's Home to the ground floor of Mercy Grace's Home since February 2020.

Contract No. KLN/2016/04  
 Environmental Monitoring Works for Contract No. KL/2015/02  
 Kai Tak Development –Stage 5A Infrastructure at Former North Apron Area

Graphical Presentation of Construction Noise Monitoring Results

Scale

N.T.S

Project No.

MA16043

Date

Jan 2017  
to Jun 2025

Appendix

d

**CINOTECH**

**APPENDIX E**  
**ENVIRONMENTAL MITIGATION**  
**IMPLEMENTATION SCHEDULE (EMIS)**

## Appendix E – Summary of Implementation Schedule of Mitigation Measures for Construction Phase

sEIA Ref.	Recommended Mitigation Measures	Implementation Status
<b><i>Construction Air Quality</i></b>		
S6.5	8 times daily watering of the work site with active dust emitting activities.	^
S6.8	<p>Implementation of dust suppression measures stipulated in Air Pollution Control (Construction Dust) Regulation. The following mitigation measures, good site practices and a comprehensive dust monitoring and audit programme are recommended to minimize cumulative dust impacts.</p> <ul style="list-style-type: none"> <li>• Stockpiling site(s) should be lined with impermeable sheeting and banded. Stockpiles should be fully covered by impermeable sheeting to reduce dust emission.</li> <li>• Misting for the dusty material should be carried out before being loaded into the vehicle. Any vehicle with an open load carrying area should have properly fitted side and tail boards.</li> <li>• Material having the potential to create dust should not be loaded from a level higher than the side and tail boards and should be dampened and covered by a clean tarpaulin.</li> <li>• The tarpaulin should be properly secured and should extent at least 300 mm over the edges of the sides and tailboards. The material should also be dampened if necessary before transportation.</li> <li>• The vehicles should be restricted to maximum speed of 10 km per hour and confined haulage and delivery vehicle to designated roadways insider the site. Onsite unpaved roads should be compacted and kept free of lose materials.</li> <li>• Vehicle washing facilities should be provided at every vehicle exit point.</li> <li>• The area where vehicle washing takes place and the section of the road between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores.</li> <li>• Every main haul road should be scaled with concrete and kept clear of dusty materials or sprayed with water so as to maintain the entire road surface wet.</li> <li>• Every stock of more than 20 bags of cement should be covered entirely by impervious sheeting placed in an area sheltered on the top and the three sides.</li> <li>• Every vehicle should be washed to remove any dusty materials from its body and wheels before leaving the construction sites.</li> </ul>	<p>^</p> <p>^</p> <p>^</p> <p>^</p> <p>^</p> <p>^</p> <p>^</p> <p>^</p> <p>^</p> <p>^</p> <p>^</p>

## Appendix E – Summary of Implementation Schedule of Mitigation Measures for Construction Phase

<p>S6.8</p>	<ul style="list-style-type: none"> <li>• <u>DWFI compound for JVBC:</u> A DWFI compound is proposed at the downstream of JVC to contain pollution in drainage systems entering the KTAC and KTTS by interception facilities until the ultimate removal of the pollution sources. Tidal barriers and desilting facilities will form part of the compounds to prevent any accumulation of sediment within the downstream section of JVBC and hence fully mitigate the potential odour emissions from the headspace of JVBC near the existing discharge locations. The odour generating operations within the proposed desilting compound will be fully enclosed and the odorous air will be collected and treated by high efficiency deodorizers before discharge to the atmosphere.</li> <li>• <u>Desilting compound for KTN:</u> Two desilting compounds are proposed for KTN (at Site 1D6 and Site 1P1) to contain pollution in drainage systems entering the KTAC and KTTS by interception facilities until the ultimate removal of the pollution sources. Tidal barriers and desilting facilities will form part of the compounds to prevent any accumulation of sediment within the downstream section of KTN and hence fully mitigate the potential odour emissions from the headspace of KTN near the existing discharge locations. The odour generating operations within the proposed desilting compound will be fully enclosed and the odorous air will be collected and treated by high efficiency deodorizers before discharge to the atmosphere.</li> <li>• <u>Decking or reconstruction of KTN within apron area:</u> It is proposed to deck the KTN or reconstruct the KTN within the former Apron area into Kai Tak River from the south of Road D1 to the north of Road D2 along the existing alignment of KTN. The Kai Tak River will compose of a number of channels flowing with nonodorous fresh water and THEES effluent. The channel flowing with THEES effluent will be designed with the width of water surface of not more than 16m.</li> <li>• <u>Localised maintenance dredging:</u> Localised maintenance dredging should be conducted to provide water depth of not less than 3.5m over the whole of KTAC and KTTS. With reference to the water depth data recorded during the odour survey, only some of the areas in the northern part of KTAC (i.e. to the north of taxiway bridge) including the area near the northern edge of KTAC, the area near western bank of KTAC, and the area near the JVC discharge have water depths shallower than 3.5m. The area involved would be about 40% of the northern KTAC and the dredging depth required would be from about 2.7m to less than 1m. The maintenance dredging to be carried out prior to the occupation of any new development in the immediate vicinity of KTAC to avoid potential localized odour impacts at the future ASRs during the maintenance</li> </ul>	<p>N/A</p> <p>N/A</p> <p>N/A</p> <p>N/A</p>
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## Appendix E – Summary of Implementation Schedule of Mitigation Measures for Construction Phase

	<p>dredging operation.</p> <ul style="list-style-type: none"> <li>• <u>Improvement of water circulation in KTAC and KTTS:</u> 600m gap opening at the northern part of the former Kai Tak runway, the water circulation in KTAC and KTTS would be substantially improved. Together with the improvement in water circulation, the DO level in KTAC and KTTS would also be increased.</li> <li>• <u>In-situ sediment treatment by bioremediation:</u> Bioremediation would be applied to the entire KTAC and KTTS.</li> </ul>	N/A
<b>Construction Noise</b>		
S7.8	Use of quiet PME, movable barriers barrier for Asphalt Paver, Breaker, Excavator and Hand-held breaker and full enclosure for Air Compressor, Bar Bender, Concrete Pump, Generator and Water Pump.	^
S7.9	<p>Good Site Practice:</p> <ul style="list-style-type: none"> <li>• Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction program.</li> <li>• Silencers or mufflers on construction equipment should be utilized and should be properly maintained during the construction program.</li> <li>• Mobile plant, if any, should be sited as far away from NSRs as possible.</li> <li>• Machines and plant (such as trucks) that may be in intermittent use should be shut down between works periods or should be throttled down to a minimum.</li> <li>• Plant known to emit noise strongly in one direction should, wherever possible, be orientated so that the noise is directed away from the nearby NSRs.</li> <li>• Material stockpiles and other structures should be effectively utilized, wherever practicable, in screening noise from on-site construction activities.</li> </ul>	^ ^ ^ ^ ^
S7.9	Scheduling of Construction Works during School Examination Period	^
S7.8	(i) Provision of low noise surfacing in a section of Road L2; and	N/A
	(ii) Provision of structural fins	N/A
S7.8	(i) Avoid the sensitive façade of class room facing Road L2 and L4; and	N/A
	(ii) Provision of low noise surfacing in a section of Road L2 & L4	N/A

## Appendix E – Summary of Implementation Schedule of Mitigation Measures for Construction Phase

S7.8	(i) Provision of low noise surfacing in a section of Road L4 before occupation of Site 111; and (ii) Setback of building about 5m from site boundary.	N/A N/A
S7.8	Setback of building about 35m to the northwest direction at 1L3 and 5m at Site 1L2.	N/A
S7.8	(i) avoid any sensitive façades with openable window facing the existing Kowloon City Road network; and Avoid the sensitive façade of class room facing Road L2 and L4; and (ii) for the sensitive facades facing the To Kwa Wan direction, either setback the facades by about 5m to the northeast direction or do not provide the facades with openable window.	N/A N/A
S7.8	(i) avoid any sensitive facades with openable window facing the existing To Kwa Wan Road or (ii) provision of 17.5m high noise tolerant building fronting To Kwa Wan Road and restrict the height of the residential block(s) located at less than 55m away from To Kwa Wan Road to no more than 25m above ground	N/A N/A
S7.8	(i) avoid any sensitive facades with openable window facing the slip road connecting Prince Edward Road East and San Po Kong or other alternative mitigation measures and at-source mitigation measures for the surrounding new local roads to minimise the potential traffic noise impacts from the slip road	^
S7.8	All the ventilation fans installed in the below will be provided with silencers or acoustics treatment. (i) SPS (ii) ESS (iii) Tunnel Ventilation Shaft (iv) EFTS depot	N/A N/A N/A N/A
S7.8	Installation of retractable roof or other equivalent measures	N/A
<b><i>Construction Water Quality</i></b>		
S8.8	The following mitigation measures are proposed to be incorporated in the design of the SPS at KTD, including: <ul style="list-style-type: none"> <li>• Dual power supply or emergency generator should be provided at all the SPSs to secure electrical power supply;</li> <li>• Standby pumps should be provided at all SPSs to ensure smooth operation of the SPS during maintenance of the duty pumps;</li> <li>• An alarm should be installed to signal emergency high water level in the wet well at all SPSs; and</li> <li>• For all unmanned SPSs, a remote monitor system connecting SPSs with the control station through telemetry system should be provided so that swift actions could be taken in case of malfunction of unmanned facilities</li> </ul>	N/A N/A N/A N/A

## Appendix E – Summary of Implementation Schedule of Mitigation Measures for Construction Phase

S8.8	<p><b>Construction Phase</b></p> <p><u>Marine-based Construction</u></p> <p><i>Capital and Maintenance Dredging for Cruise Terminal</i></p> <p>Mitigation measures for construction of the proposed cruise terminal should follow those recommended in the approved EIA for CT Dredging.</p>	N/A
S8.8	<p><i>Fireboat Berth, Runway Opening and Road T2</i></p> <p>Silt curtains should be deployed around the close grab dredger to minimize release of sediment and other contaminants for any dredging and filling activities in open water.</p>	N/A
S8.8	<p>Dredging at and near the seawall area for construction of the public landing steps cum fireboat berth should be carried out at a maximum production rate of 1,000m<sup>3</sup> per day using one grab dredger.</p>	N/A
S8.8	<p>The proposed construction method for runway opening should adopt an approach where the existing seawall at the runway will not be removed until completion of all excavation and dredging works for demolition of the runway. Thus, excavation of bulk fill and majority of the dredging works will be carried out behind the existing seawall, and the sediment plume can be effectively contained within the works area. As there is likely some accumulation of sediments alongside the runway, there will be a need to dredge the existing seabed after completion of all the demolition works. Dredging alongside the 600m opening should be carried out at a maximum production rate of 2,000m<sup>3</sup> per day using one grab dredger.</p>	N/A
8.8	<p>Dredging for Road T2 should be conducted at a maximum rate of 8,000m<sup>3</sup> per day (using four grab dredgers) whereas the sand filling should be conducted at a maximum rate of 2,000m<sup>3</sup> per day (using two grab dredgers).</p>	N/A
8.8	<p>Silt screens shall be applied to seawater intakes at WSD seawater intake.</p>	N/A

## Appendix E – Summary of Implementation Schedule of Mitigation Measures for Construction Phase

S8.8	<p><u>Land-based Construction</u></p> <p><i>Construction Runoff</i></p> <p>Exposed soil areas should be minimised to reduce the potential for increased siltation, contamination of runoff, and erosion. Construction runoff related impacts associated with the above ground construction activities can be readily controlled through the use of appropriate mitigation measures which include:</p> <ul style="list-style-type: none"> <li>• use of sediment traps</li> <li>• adequate maintenance of drainage systems to prevent flooding and overflow</li> </ul>	<p>^</p> <p>^</p>
S8.8	<p>Ideally, construction works should be programmed to minimise surface excavation works during the rainy season (April to September). All exposed earth areas should be completed as soon as possible after earthworks have been completed, 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.</p>	<p>^</p>
S8.8	<p>Construction site should be provided with adequately designed perimeter channel and pre-treatment facilities and proper maintenance. The boundaries of critical areas of earthworks should be marked and surrounded by dykes or embankments for flood protection. Temporary ditches should be provided to facilitate runoff discharge into the appropriate watercourses, via a silt retention pond. Permanent drainage channels should incorporate sediment basins or traps and baffles 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.</p>	<p>^</p>
S8.8	<p>Sediment tanks of sufficient capacity, constructed from pre-formed individual cells of approximately 6 to 8 m<sup>3</sup> capacity, are recommended as a general mitigation measure which can be used for settling surface runoff prior to disposal. The system capacity is flexible and able to handle multiple inputs from a variety of sources and particularly suited to applications where the influent is pumped.</p>	<p>^</p>
S8.8	<p>Open stockpiles of construction materials (for examples, aggregates, sand and fill material) of more than 50 m<sup>3</sup> 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.</p>	<p>^</p>
S8.8	<p>Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and storm runoff being directed into foul sewers.</p>	<p>^</p>
S8.8	<p>Precautions to be taken at any time of year when rainstorms are likely, actions to be taken when a rainstorm is imminent or forecast, and actions to be taken during or after rainstorms are summarized in Appendix A2 of ProPECC PN 1/94. Particular attention should be paid to the control of silty</p>	<p>^</p>

## Appendix E – Summary of Implementation Schedule of Mitigation Measures for Construction Phase

	surface runoff during storm events.	
S8.8	Oil interceptors should be provided in the drainage system and regularly cleaned to prevent the release of oils and grease into the storm water drainage system after accidental spillages. The interceptor should have a bypass to prevent flushing during periods of heavy rain.	N/A(1)
S8.8	All vehicles and plant should be cleaned before leaving a construction site to ensure no earth, mud, debris and the like is deposited by them on roads. An adequately designed and located wheel washing bay should be provided at every site exit, and 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-wash bay to the public road should be paved with sufficient backfall toward the wheel-wash bay to prevent vehicle tracking of soil and silty water to public roads and drains.	^
S8.8	<i>Drainage</i>  It is recommended that on-site drainage system should be installed prior to the commencement of other construction activities. Sediment traps should be installed in order to minimise the sediment loading of the effluent prior to discharge into foul sewers. There should be no direct discharge of effluent from the site into the sea	^
S8.8	All temporary and permanent drainage pipes and culverts provided to facilitate runoff discharge should be adequately designed for the controlled release of storm flows. All sediment control measures should be regularly inspected and maintained to ensure proper and efficient operation at all times and particularly following rain storms. The temporarily diverted drainage should be reinstated to its original condition when the construction work has finished or the temporary diversion is no longer required.	^
S8.8	All fuel tanks and storage areas should be provided with locks and be located 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 coastal waters of the Victoria Harbour WCZ.	^
S8.8	<i>Sewage Effluent</i>  Construction work force sewage discharges on site are expected to be connected to the existing trunk sewer or sewage treatment facilities. The construction sewage may need to be handled by portable chemical toilets prior to the commission of the on-site sewer system. Appropriate numbers of portable toilets should be provided by a licensed contractor to serve the large number of construction workers over the construction site. The Contractor should also be responsible for waste disposal and maintenance practices.	^

## Appendix E – Summary of Implementation Schedule of Mitigation Measures for Construction Phase

S8.8	<i>Stormwater Discharges</i>  Minimum distances of 100 m should be maintained between the existing or planned stormwater discharges and the existing or planned seawater intakes	^
S8.8	<i>Debris and Litter</i>  In order to maintain water quality in acceptable conditions with regard to aesthetic quality, contractors should be required, under conditions of contract, to ensure that site management is optimised and that disposal of any solid materials, litter or wastes to marine waters does not occur	^
S8.8	<i>Construction Works at or in Close Proximity of Storm Culvert or Seafront</i>  The proposed works should preferably be carried out within the dry season where the flow in the drainage channel /storm culvert/ nullah is low.	^
S8.8	The use of less or smaller construction plants may be specified to reduce the disturbance to the bottom sediment at the drainage channel /storm culvert / nullah.	^
S8.8	Temporary storage of materials (e.g. equipment, filling materials, chemicals and fuel) and temporary stockpile of construction materials should be located well away from any water courses during carrying out of the construction works	^
S8.8	Stockpiling of construction materials and dusty materials should be covered and located away from any water courses.	^
S8.8	Construction debris and spoil should be covered up and/or disposed of as soon as possible to avoid being washed into the nearby water receivers.	^
S8.8	Construction activities, which generate large amount of wastewater, should be carried out in a distance away from the waterfront, where practicable.	^
S8.8	Mitigation measures to control site runoff from entering the nearby water environment should be implemented to minimize water quality impacts.  Surface channels should be provided along the edge of the waterfront within the work sites to intercept the runoff.	^
S8.8	Construction effluent, site run-off and sewage should be properly collected and/or treated.	^
S8.8	Any works site inside the storm water courses should be temporarily isolated, such as by placing of sandbags or silt curtains with lead edge at bottom and properly supported props to prevent adverse impact on the storm water quality.	N/A
S8.8	Silt curtain may be installed around the construction activities at the seafront to minimize the potential impacts due to accidental spillage of construction materials.	N/A
S8.8	Proper shoring may need to be erected in order to prevent soil/mud from slipping into the storm culvert/drainage channel/sea.	N/A

## Appendix E – Summary of Implementation Schedule of Mitigation Measures for Construction Phase

S8.8	Supervisory staff should be assigned to station on site to closely supervise and monitor the works	^
S8.8	Marine water quality monitoring and audit programme shall be implemented for the proposed sediment treatment operation.	N/A
<b><i>Construction Waste Management</i></b>		
S9.5	<p>Good Site Practices</p> <p>It is not anticipated that adverse waste management related impacts would arise, provided that good site practices are adhered to. Recommendations for good site practices during the dredging activities include:</p> <ul style="list-style-type: none"> <li>• Nomination of an approved person, such as a site manager, be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site.</li> <li>• Training of site personnel in proper waste management and chemical waste handling procedures.</li> <li>• Provision of sufficient waste disposal points and regular collection for disposal.</li> <li>• Appropriate measure to minimize windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers.</li> <li>• A recording system for the amount of wastes generated, recycled and disposed of (including the disposal sites).</li> </ul>	<p>^</p> <p>^</p> <p>^</p> <p>^</p> <p>^</p>
S9.5	<p>Waste Reduction Measures</p> <p>Good management and control can prevent the generation of a significant amount of waste. Waste reduction is best achieved at the planning and design stage, as well as by ensuring the implementation of good site practices. Recommendations to achieve waste reduction include:</p> <ul style="list-style-type: none"> <li>• Sort C&amp;D waste from demolition of the remaining structures to recover recyclable portions such as metals</li> <li>• 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</li> <li>• Encourage collection of aluminium cans, PET bottles and paper by providing separate labelled bins to enable these wastes to be segregated from other general refuse generated by the work force</li> <li>• Any unused chemicals or those with remaining functional capacity should be recycled</li> <li>• Proper storage and site practices to minimise the potential for damage or contamination of construction materials</li> </ul>	<p>^</p> <p>^</p> <p>^</p> <p>^</p> <p>^</p>

## Appendix E – Summary of Implementation Schedule of Mitigation Measures for Construction Phase

S9.5	<p>Dredged Marine Sediment</p> <p>The basic requirements and procedures for dredged mud disposal are specified under the ETWB TCW No. 34/2002. The management of the dredging, use and disposal of marine mud is monitored by the MFC, while the licensing of marine dumping is required under the Dumping at Sea Ordinance and is the responsibility of the Director of Environmental Protection (DEP)</p>	N/A
S9.5	<p>The dredged marine sediments would be loaded onto barges and transported to the designated disposal sites allocated by the MFC depending on their level of contamination. Sediment classified as Category L would be suitable for Type 1 - Open Sea Disposal. Contaminated sediment would require either Type 1 – Open Sea Disposal (Dedicated Sites), Type 2 - Confined Marine Disposal, or Type 3 – Special Treatment / Disposal and must be dredged and transported with great care in accordance with ETWB TCW No. 34/2002. Subject to the final allocation of the disposal sites by MFC, the dredged contaminated sediment must be effectively isolated from the environment and disposed properly at the designated disposal site</p>	N/A
S9.5	<p>It will be the responsibility of the contractor to satisfy the appropriate authorities that the contamination levels of the marine sediment to be dredged have been analysed and recorded. According to the ETWB TCW No. 34/2002, this will involve the submission of a formal Sediment Quality Report to the DEP, prior to the dredging contract being tendered. The contractor for the dredging works should apply for allocation of marine disposal sites and all necessary permits from relevant authorities for the disposal of dredged sediment. During transportation and disposal of the dredged marine sediments requiring Type 1, Type 2, or Type 3 disposal, the following measures should be taken to minimise potential impacts on water quality:</p> <ul style="list-style-type: none"> <li>• Bottom opening of barges should be fitted with tight fitting seals to prevent leakage of material. Excess material should be cleaned from the decks and exposed fittings of barges and hopper dredgers before the vessel is moved</li> <li>• Monitoring of the barge loading should be conducted to ensure that loss of material does not take place during transportation. Transport barges or vessels should be equipped with automatic selfmonitoring devices as required under the Dumping at Sea Ordinance and as specified by the DEP</li> <li>• Barges or hopper barges should not be filled to a level that would cause the overflow of materials or sediment laden water during loading or transportation</li> </ul>	N/A  N/A  N/A
S9.5	<p>Construction and Demolition Material</p> <p>Mitigation measures and good site practices should be incorporated into contract document to control potential environmental impact from handling and transportation of C&amp;D material. The mitigation measures include:</p> <ul style="list-style-type: none"> <li>• Where it is unavoidable to have transient stockpiles of C&amp;D material within the Project work site pending collection for disposal, the</li> </ul>	^

## Appendix E – Summary of Implementation Schedule of Mitigation Measures for Construction Phase

	<p>transient stockpiles should be located away from waterfront or storm drains as far as possible</p> <ul style="list-style-type: none"> <li>• Open stockpiles of construction materials or construction wastes on-site should be covered with tarpaulin or similar fabric</li> <li>• Skip hoist for material transport should be totally enclosed by impervious sheeting</li> <li>• Every vehicle should be washed to remove any dusty materials from its body and wheels before leaving a construction site</li> <li>• The area where vehicle washing takes place and the section of the road between the washing facilities and the exit point should be paved with concrete, bituminous materials or hardcores</li> <li>• The load of dusty materials carried by vehicle leaving a construction site should be covered entirely by clean impervious sheeting to ensure dust materials do not leak from the vehicle</li> <li>• All dusty materials should be sprayed with water prior to any loading, unloading or transfer operation so as to maintain the dusty materials wet</li> <li>• The height from which excavated materials are dropped should be controlled to a minimum practical height to limit fugitive dust generation from unloading</li> </ul> <p>When delivering inert C&amp;D material to public fill reception facilities, the material should consist entirely of inert construction waste and of size less than 250mm or other sizes as agreed with the Secretary of the Public Fill Committee. In order to monitor the disposal of the surplus C&amp;D material at the designed public fill reception facility and to control fly tipping, a trip-ticket system as stipulated in the ETWB TCW No. 31/2004 “Trip Ticket System for Disposal of Construction and Demolition Materials” should be included as one of the contractual requirements and implemented by an Environmental Team undertaking the Environmental Monitoring and Audit work. An Independent Environmental Checker should be responsible for auditing the results of the system.</p>	<p>^</p> <p>^</p> <p>^</p> <p>^</p> <p>^</p> <p>^</p> <p>^</p> <p>^</p>
S9.5/-	<p>Chemical Waste</p> <p>(i) After use, chemical wastes (for example, cleaning fluids, solvents, lubrication oil and fuel) should be handled according to the Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes. Spent chemicals should be collected by a licensed collector for disposal at the CWTF or other licensed facility, in accordance with the <i>Waste Disposal (Chemical Waste) (General) Regulation</i></p> <p>(ii) Maintenance of vehicles and equipment involving activities with potential of leakage and spillage should only be undertaken within the areas which are appropriately equipped to control these discharges.</p>	<p>^</p> <p>^</p>

## Appendix E – Summary of Implementation Schedule of Mitigation Measures for Construction Phase

S9.5	<p>General Refuse</p> <p>General refuse should be stored in enclosed bins or compaction units separate from C&amp;D material. A licensed waste collector should be employed by the contractor to remove general refuse from the site, separately from C&amp;D material. Effective collection and storage methods (including enclosed and covered area) of site wastes would be required to prevent waste materials from being blown around by wind, wastewater discharge by flushing or leaching into the marine environment, or creating odour nuisance or pest and vermin problem</p>	^
<b><i>Construction Landscape and Visual</i></b>		
S13.9	<p>CM1 All existing trees should be carefully protected during construction.</p> <p>CM2 Trees unavoidably affected by the works should be transplanted where practical. Detailed transplanting proposal will be submitted to relevant government departments for approval in accordance with ETWBC 2/2004 and 3/2006. Final locations of transplanted trees should be agreed prior to commencement of the work.</p> <p>CM3 Control of night-time lighting.</p> <p>CM4 Erection of decorative screen hoarding.</p>	<p>^</p> <p>^</p> <p>N/A(1)</p> <p>^</p>

### Remarks:

^	Compliance of mitigation measure
*	Recommendations were made during site audits but improved/rectified by the Contractor
#	Recommendations were made during site audits but has not yet been improved/rectified by the Contractor
●	Non-compliance but rectified by the Contractor
X	Non-compliance of mitigation measure
N/A	Not Applicable at this stage
N/A(1)	Not observed

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**APPENDIX F**  
**SUMMARY OF EXCEEDANCES**

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## **Reporting Period: Jan 2017- June 2025**

### **(A) Exceedance Report for Air Quality**

#### **Action Level & Limit Level for 24 hour TSP monitoring**

One (1) Action Level and No Limit Level exceedance of 24-hour TSP monitoring was recorded in the construction phase of the captioned contract. The investigation details of the following Action level Exceedance are presented below:

During March 2021, 1 Action Level exceedance of 24-hr TSP in Location AM2(A) (Ng Wah Catholic Secondary School) was recorded during 24-25 March 2021. According to the Action and Limit Levels of the captioned project, the action level limit for 24-hr TSP in Location AM2(A) is 157 µg/m<sup>3</sup>. The result of 24-hr TSP for 24-25 March 2021 was 178 µg/m<sup>3</sup>, which triggered the corresponding action level.

After investigation with contractor of KL/2015/02, the contractor has claimed that they had sprayed and sprinkled water every work day, including the days of 24-25 March 2021. During the 24-hour TSP sample collection on 25 March 2021, the ET team did not identified any air quality issues on the site.

No direct evidence that the exceedance on 24-25 March 2021 was due to the works within the site and may instead have been caused by road traffic. Therefore, the exceedance was considered non-project related and no additional monitoring is required.

#### **Action Level & Limit Level for 1 hour TSP monitoring**

No Action Level and Limit Level exceedance of 1hour TSP monitoring was recorded in the construction phase of the captioned contract.

### **(B) Exceedance Report for Construction Noise**

#### **Action Level for Construction Noise**

No Action Level exceedances were recorded due to the documented complaints received in the construction phase of the captioned contract.

#### **Limit Level for Construction Noise**

No Limit Level exceedance for daytime construction noise monitoring was recorded in the construction phase of the captioned contract.

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**APPENDIX G  
SUMMARIES OF ENVIRONMENTAL  
COMPLAINT, WARNING, SUMMON  
AND NOTIFICATION OF SUCCESSFUL  
PROSECUTION**

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**Contract No. KLN/2016/04**  
**Environmental Monitoring Works for Contract No. KL/2015/02**  
**Kai Tak Development – Stage 5A Infrastructure at Former North Apron Area**

**Appendix G – Summary of environmental complaint, warning, summon and notification of successful prosecution**

**Reporting period:** January 2017 to June 2025

One (1) environmental complaint regarding dust emission was recorded in October 2017. The case was concluded to be non-project-related and has been closed.

No warning, summons and notification of successful prosecution regarding site activities under this project were received during the construction period.

**Contract No. KLN/2016/04**

**Environmental Monitoring Works for Contract No. KL/2015/02**

**Kai Tak Development – Stage 5A Infrastructure at Former North Apron Area**

**Appendix G – Summary of environmental complaint, warning, summon and notification of successful prosecution**

**Cumulative Statistics on Complaints, Notification of Summons and Successful Prosecutions**

<b>Location</b>	<b>Record of Complaint</b>	<b>Record of Warning</b>	<b>Notification of Summons and Successful Prosecutions</b>
Road D1(part)	1	0	0

**Contract No. KLN/2016/04**  
**Environmental Monitoring Works for Contract No. KL/2015/02**  
**Kai Tak Development – Stage 5A Infrastructure at Former North Apron Area**

**Appendix G – Summary of environmental complaint, warning, summon and notification of successful prosecution**

**Reporting Period:** January 2017 to June 2025

**Complaint Log**

EPD Complaint Ref No.	Location	Received Date	Details of Complaint	Investigation/Mitigation Action	Status
17-34438	Dakota Drive and Olympic Avenue	23 October 2017	The complainant concerned about the dust emission when vehicle running on the dry surface outside Dakota Drive and Olympic Avenue. In addition, vehicles were not clear enough before leaving the construction site.	<p>In accordance with the information gathered in the investigation, construction activities were conducted with proper mitigation measures to minimize the dust impact arise from the construction site to the vicinity of this Project.</p> <p>Regular water spraying was also provided to haul roads and unpaved areas within the site areas to reduce the dust impact arise from the construction site to the vicinity of this Project. The Contractor had also ensured vehicles and plants were wheel washed to be cleaned of mud and debris before leaving the construction site area. Therefore, the complaint is considered as non-project related.</p> <p>The following recommendations were made to further enhance the mitigation measures:</p> <ul style="list-style-type: none"> <li>● Where practicable, to provide sheltered area on the top and three sides for stockpiles of dusty materials, or perform frequent water spraying so as to maintain the entire surface wet;</li> <li>● Frequent checking and repair the gaps or broken tarpaulin sheets; and</li> <li>● To provide a hard-surfaced road between any cleaning facility and the public Road</li> </ul>	Closed

**Contract No. KLN/2016/04**

**Environmental Monitoring Works for Contract No. KL/2015/02**

**Kai Tak Development – Stage 5A Infrastructure at Former North Apron Area**

**Appendix G – Summary of environmental complaint, warning, summon and notification of successful prosecution**

**Warnings / Summons and Successful Prosecutions received**

<b>Log Ref.</b>	<b>Received Date</b>	<b>Details of Warning / Summons and Successful Prosecutions</b>	<b>Investigation/Mitigation Action</b>	<b>Status</b>
N/A	N/A	N/A	N/A	N/A

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**APPENDIX H  
WASTE FLOW TABLE**

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Department: CEDD  
 Contract No.: KL/2015/02  
 Project : Kai Tak Development - Stage 5A Infrastructure at Former North Apron Area



Peako - Wo Hing Joint Venture

**Monthly Summary Waste Flow Table for 2017**

As at 2 January 2018

Month	Actual Quantities of Inert C & D Materials Generated Monthly						Actual Quantities of C & D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ Cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
Jan	6651	0	0	0	6651	0	0	0	0	0	14
Feb	12141	0	0	0	12141	0	0	0	0	0	0
Mar	24507	0	0	0	24507	0	0	0	0	0	21
Apr	5445	0	0	0	5445	0	0	0	0	0	21
May	7470	0	0	0	7470	0	0	0	0	0	49
June	4905	0	0	0	4905	0	0	0	0	0	35
<b>Sub-total</b>	<b>61119</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>61119</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>140</b>
July	342	0	0	0	342	0	0	0	0	0	35
Aug	153	0	0	0	153	0	0	0	0	0	42
Sept	0	0	0	0	0	0	0	0	0	0	105
Oct	0	0	0	0	0	0	0	0	0	0	56
Nov	0	0	0	0	0	0	0	0	0	0	63
Dec	0	0	0	0	0	0	0	0	0	0	56
<b>Total</b>	<b>61614</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>61614</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>497</b>

Forecast of Total Quantities of C&D Materials to be Generated from the Contract*										
Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ Cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )

- Notes:
- (1) The performance targets are given in PS clause 6(14).
  - (2) The waste flow table shall also include C & D materials that are specified in the Contract to be imported for use at the Site.
  - (3) Plastics refer to plastic bottles/ containers, plastic sheets/ foam from packaging material.
  - (4) The Contractor shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the Works, together with a breakdown of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,00 m<sup>3</sup>. (PS Clause 25.02A(7) refers).

Department: CEDD  
 Contract No.: KL/2015/02  
 Project : Kai Tak Development - Stage 5A Infrastructure at Former North Apron Area



Peako - Wo Hing Joint Venture

**Monthly Summary Waste Flow Table for 2018**

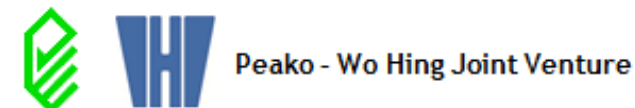
As at 2 January 2019

Month	Actual Quantities of Inert C & D Materials Generated Monthly						Actual Quantities of C & D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Broken	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ Cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
Jan	0	0	0	0	0	0	0	0	0	0	0.063
Feb	0	0	0	0	0	0	0	0	0	0	0.056
Mar	0	0	0	0	0	0	0	0	0	0	0.021
Apr	0	0	0	0	0	0	0	0	0	0	0.014
May	0	0	0	0	0	0	0	0	0	0	0.028
June	0	0	0	0	0	0	0	0	0	0	0.056
<b>Sub-total</b>	<b>66.537</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>66.537</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.875</b>
July	0	0	0	0	0	0	0	0	0	0	0.056
Aug	0	0	0	0	0	0	0	0	0	0	0.056
Sept	0	0	0	0	0	0	0	0	0	0	0.042
Oct	0	0	0	0	0	0	0	0	0	0	0.07
Nov	0	0	0	0	0	0	0	0	0	0	0.021
Dec	0	0	0	0	0	0	0	0	0	0	0.112
<b>Total</b>	<b>66.537</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>66.537</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1.232</b>

Forecast of Total Quantities of C&D Materials to be Generated from the Contract*										
Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ Cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
63000	0	0	0	67	0	0	0	0	0	2

- Notes:
- (1) The performance targets are given in PS clause 6(14).
  - (2) The waste flow table shall also include C & D materials that are specified in the Contract to be imported for use at the Site.
  - (3) Plastics refer to plastic bottles/ containers, plastic sheets/ foam from packaging material.
  - (4) The Contractor shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the Works, together with a breakdown of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,00 m<sup>3</sup>. (PS Clause 25.02A(7) refers).

Department: CEDD  
 Contract No.: KL/2015/02  
 Project : Kai Tak Development - Stage 5A Infrastructure at Former North Apron Area



**Monthly Summary Waste Flow Table for 2019**

As at 2 January 2020

Month	Quantities of Inert C & D Materials Generated Monthly						Quantities of C & D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ Cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
Jan	0	0	0	0	0	0	0	0	0	0	0.154
Feb	0	0	0	0	0	0	0	0	0	0	0.035
Mar	0	0	0	0	0	0	0	0	0	0	0.035
Apr	0	0	0	0	0	0	0	0	0	0	0.07
May	0	0	0	0	0	0	0	0	0	0	0.063
June	0	0	0	0	0	0	0	0	0	0	0.028
<b>Sub-total</b>	<b>66.537</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>66.537</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1.617</b>
July	0	0	0	0	0	0	0	0	0	0	0.056
Aug	0	0	0	0	0	0	0	0	0	0	0.035
Sept	0	0	0	0	0	0	0	0	0	0	0.035
Oct	0	0	0	0	0	0	0	0	0	0	0.028
Nov	0	0	0	0	0	0	0	0	0	0	0.042
Dec	0	0	0	0	0	0	0	0	0	0	0.021
<b>Total</b>	<b>66.537</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>66.537</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1.834</b>

Forecast of Total Quantities of C&D Materials to be Generated from the Contract*										
Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ Cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
63000	0	0	0	67	0	0	0	0	0	2

- Notes:
- (1) The performance targets are given in PS clause 6(14).
  - (2) The waste flow table shall also include C & D materials that are specified in the Contract to be imported for use at the Site.
  - (3) Plastics refer to plastic bottles/ containers, plastic sheets/ foam from packaging material.
  - (4) The Contractor shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the Works, together with a breakdown of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,00 m<sup>3</sup>. (PS Clause 25.02A(7) refers).

Department: CEDD  
 Contract No.: KL/2015/02  
 Project : Kai Tak Development - Stage 5A Infrastructure at Former North Apron Area



Peako - Wo Hing Joint Venture

**Monthly Summary Waste Flow Table for 2020**

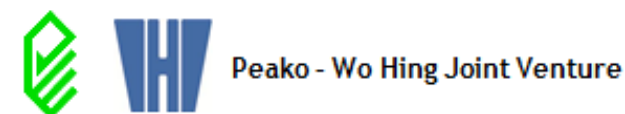
As at 2 January 2021

Month	Quantities of Inert C & D Materials Generated Monthly						Quantities of C & D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ Cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
Jan	0	0	0	0	0	0	0	0	0	0	0.007
Feb	0	0	0	0	0	0	0	0	0	0	0.021
Mar	0	0	0	0	0	0	0	0	0	0	0.035
Apr	0	0	0	0	0	0	0	0	0	0	0.021
May	0	0	0	0	0	0	0	0	0	0	0.028
June	0	0	0	0	0	0	0	0	0	0	0.049
<b>Sub-total</b>	<b>66.537</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>66.537</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1.995</b>
July	0	0	0	0	0	0	0	0	0	0	0.056
Aug	0	0	0	0.028	0	0	0	0	0	0	0.035
Sept	0	0	0	0.112	0	0	0	0	0	0	0.049
Oct	0	0	0	0.112	0	0	0	0	0	0	0.007
Nov	0	0	0	0.084	0	0	0	0	0	0	0.042
Dec	0	0	0	0.07	0	0	0	0	0	0	0.042
<b>Total</b>	<b>66.537</b>	<b>0</b>	<b>0</b>	<b>0.406</b>	<b>66.537</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2.226</b>

Forecast of Total Quantities of C&D Materials to be Generated from the Contract*										
Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ Cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
67	0	0	1	67	0	0	0	0	0	2.5

- Notes:
- (1) The performance targets are given in PS clause 6(14).
  - (2) The waste flow table shall also include C & D materials that are specified in the Contract to be imported for use at the Site.
  - (3) Plastics refer to plastic bottles/ containers, plastic sheets/ foam from packaging material.
  - (4) The Contractor shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the Works, together with a breakdown of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,00 m<sup>3</sup>. (PS Clause 25.02A(7) refers).

Department: CEDD  
 Contract No.: KL/2015/02  
 Project : Kai Tak Development - Stage 5A Infrastructure at Former North Apron Area



**Monthly Summary Waste Flow Table for 2021**

As at 3 January 2022

Month	Quantities of Inert C & D Materials Generated Monthly						Quantities of C & D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ Cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
Jan	0	0	0	0	0	0	0	0	0	0	0.07
Feb	0	0	0	0	0	0	0	0	0	0	0.021
Mar	0	0	0	0	0	0	0	0	0	0	0.014
Apr	1.692	0	0	0	1.692	0	0	0	0	0	0.112
May	0	0	0	0	0	0	0	0	0	0	0.042
June	0	0	0	0	0	0	0	0	0	0	0.084
<b>Sub-total</b>	<b>66.537</b>	<b>0</b>	<b>0</b>	<b>0.406</b>	<b>66.537</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2.569</b>
July	0	0	0	0	0	0	0	0	0	0	0.056
Aug	0	0	0	0	0	0	0	0	0	0	0.014
Sept	0	0	0	0	0	0	0	0	0	0	0.035
Oct	0	0	0	0	0	0	0	0	0	0	0.007
Nov	0	0	0	0	0	0	0	0	0	0	0.021
Dec	0	0	0	0	0	0	0	0	0	0	0.014
<b>Total</b>	<b>66.537</b>	<b>0</b>	<b>0</b>	<b>0.406</b>	<b>66.537</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2.716</b>

Forecast of Total Quantities of C&D Materials to be Generated from the Contract*											
Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ Cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse	
(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )	
67	0	0	1	67	0	0	0	0	0	2.5	

- Notes:
- (1) The performance targets are given in PS clause 6(14).
  - (2) The waste flow table shall also include C & D materials that are specified in the Contract to be imported for use at the Site.
  - (3) Plastics refer to plastic bottles/ containers, plastic sheets/ foam from packaging material.
  - (4) The Contractor shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the Works, together with a breakdown of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,00 m<sup>3</sup>. (PS Clause 25.02A(7) refers).

Department: CEDD  
 Contract No.: KL/2015/02  
 Project : Kai Tak Development - Stage 5A Infrastructure at Former North Apron Area



Peako - Wo Hing Joint Venture

**Monthly Summary Waste Flow Table for 2022**

As at 3 Jan 2023

Month	Quantities of Inert C & D Materials Generated Monthly						Quantities of C & D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Broken	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ Cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
Jan	0	0	0	0	0	0	0	0	0	0	0.014
Feb	0	0	0	0	0	0	0	0	0	0	0
Mar	0	0	0	0	0	0	0	0	0	0	0
Apr	0	0	0	0	0	0	0	0	0	0	0.007
May	0	0	0	0	0	0	0	0	0	0	0.007
June	0	0	0	0	0	0	0	0	0	0	0.007
<b>Sub-total</b>	<b>68.229</b>	<b>0</b>	<b>0</b>	<b>0.406</b>	<b>68.229</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2.751</b>
July	0	0	0	0	0	0	0	0	0	0	0.014
Aug	0	0	0	0	0	0	0	0	0	0	0.007
Sept	0	0	0	0	0	0	0	0	0	0	0.049
Oct	0	0	0	0	0	0	0	0	0	0	0.049
Nov	0	0	0	0	0	0	0	0	0	0	0
Dec	0	0	0	0	0	0	0	0	0	0	0.007
<b>Total</b>	<b>68.229</b>	<b>0</b>	<b>0</b>	<b>0.406</b>	<b>68.229</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2.877</b>

Forecast of Total Quantities of C&D Materials to be Generated from the Contract*										
Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ Cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
67	0	0	1	67	0	0	0	0	0	2.5

- Notes:
- (1) The performance targets are given in PS clause 6(14).
  - (2) The waste flow table shall also include C & D materials that are specified in the Contract to be imported for use at the Site.
  - (3) Plastics refer to plastic bottles/ containers, plastic sheets/ foam from packaging material.
  - (4) The Contractor shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the Works, together with a breakdown of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,00 m<sup>3</sup>. (PS Clause 25.02A(7) refers).

Department: CEDD  
 Contract No.: KL/2015/02  
 Project : Kai Tak Development - Stage 5A Infrastructure at Former North Apron Area



Peako - Wo Hing Joint Venture

**Monthly Summary Waste Flow Table for 2023**

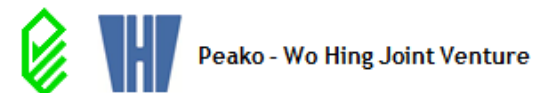
As at 2 January 2024

Month	Quantities of Inert C & D Materials Generated Monthly						Quantities of C & D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Broken	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ Cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
Jan	0.306	0	0	0	0.306	0	0	0	0	0	0.007
Feb	0	0	0	0	0	0	0	0	0	0	0
Mar	0.288	0	0	0	0.288	0	0	0	0	0	0.007
Apr	0.054	0	0	0	0.054	0	0	0	0	0	0
May	0	0	0	0	0	0	0	0	0	0	0.007
June	0.027	0	0	0	0.027	0	0	0	0	0	0.007
<b>Sub-total</b>	<b>69.31</b>	<b>0</b>	<b>0</b>	<b>0.406</b>	<b>68.904</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2.905</b>
July	0.162	0	0	0	0.162	0	0	0	0	0	0
Aug	0.027	0	0	0	0.027	0	0	0	0	0	0
Sept	0.198	0	0	0	0.198	0	0	0	0	0	0.007
Oct	0.423	0	0	0	0.423	0	0	0	0	0	0
Nov	0.027	0	0	0	0.027	0	0	0	0	0	0.007
Dec	0	0	0	0	0	0	0	0	0	0	0.028
<b>Total</b>	<b>70.147</b>	<b>0</b>	<b>0</b>	<b>0.406</b>	<b>69.741</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2.947</b>

Forecast of Total Quantities of C&D Materials to be Generated from the Contract*										
Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ Cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
72	0	0	1	69	0	0	0	0	0	3

- Notes:
- (1) The performance targets are given in PS clause 6(14).
  - (2) The waste flow table shall also include C & D materials that are specified in the Contract to be imported for use at the Site.
  - (3) Plastics refer to plastic bottles/ containers, plastic sheets/ foam from packaging material.
  - (4) The Contractor shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the Works, together with a breakdown of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,00 m<sup>3</sup>. (PS Clause 25.02A(7) refers).

Department: CEDD  
 Contract No.: KL/2015/02  
 Project : Kai Tak Development - Stage 5A Infrastructure at Former North Apron Area



**Monthly Summary Waste Flow Table for 2024**

As at 2 January 2025

Month	Quantities of Inert C & D Materials Generated Monthly						Quantities of C & D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Broken	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ Cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
Jan	0.045	0	0	0	0.045	0	0	0	0	0	0
Feb	0	0	0	0	0	0	0	0	0	0	0
Mar	0.081	0	0	0	0.081	0	0	0	0	0	0
Apr	0.009	0	0	0	0.009	0	0	0	0	0	0
May	0.036	0	0	0	0.036	0	0	0	0	0	0.007
June	0.09	0	0	0	0.09	0	0	0	0	0	0
<b>Sub-total</b>	<b>70.471</b>	<b>0</b>	<b>0</b>	<b>0.406</b>	<b>70.065</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2.954</b>
July	0.009	0	0	0	0.009	0	0	0	0	0	0.014
Aug	0.126	0	0	0	0.126	0	0	0	0	0	0.014
Sept	0.027	0	0	0	0.027	0	0	0	0	0	0.007
Oct	0.09	0	0	0	0.09	0	0	0	0	0	0.007
Nov	0.216	0	0	0	0.216	0	0	0	0	0	0
Dec	0.216	0	0	0	0.216	0	0	0	0	0	0
<b>Total</b>	<b>71.155</b>	<b>0</b>	<b>0</b>	<b>0.406</b>	<b>70.749</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>2.996</b>

Forecast of Total Quantities of C&D Materials to be Generated from the Contract*										
Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ Cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
72	0	0	1	71	0	0	0	0	0	3

- Notes:
- (1) The performance targets are given in PS clause 6(14).
  - (2) The waste flow table shall also include C & D materials that are specified in the Contract to be imported for use at the Site.
  - (3) Plastics refer to plastic bottles/ containers, plastic sheets/ foam from packaging material.
  - (4) The Contractor shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the Works, together with a breakdown of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,00 m<sup>3</sup>. (PS Clause 25.02A(7) refers).

Department: CEDD  
 Contract No.: KL/2015/02  
 Project : Kai Tak Development - Stage 5A Infrastructure at Former North Apron Area



Peako - Wo Hing Joint Venture

**Monthly Summary Waste Flow Table for 2025**

As at 9 June 2025

Month	Quantities of Inert C & D Materials Generated Monthly						Quantities of C & D Wastes Generated Monthly				
	Total Quantity Generated	Hard Rock and Large Broken	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ Cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
Jan	0.144	0	0	0	0.144	0	0	0	0	0	0.035
Feb	0.099	0	0	0	0.099	0	0	0	0	0	0.021
Mar	0	0	0	0	0	0	0	0	0	0	0
Apr	0	0	0	0	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0	0	0	0	0
June	0	0	0	0	0	0	0	0	0	0	0
Sub-total	71.398	0	0	0.406	70.992	0	0	0	0	0	3.052
July											
Aug											
Sept											
Oct											
Nov											
Dec											
Total	71.398	0	0	0.406	70.992	0	0	0	0	0	3.052

Forecast of Total Quantities of C&D Materials to be Generated from the Contract*										
Total Quantity Generated	Hard Rock and Large Broken Concrete	Reused in the Contract	Reused in other Projects	Disposed as Public Fill	Imported Fill	Metals	Paper/ Cardboard packaging	Plastics (see Note 3)	Chemical Waste	Others, e.g. general refuse
(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000m <sup>3</sup> )	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000m <sup>3</sup> )
72	0	0	1	71	0	0	0	0	0	3

- Notes:
- (1) The performance targets are given in PS clause 6(14).
  - (2) The waste flow table shall also include C & D materials that are specified in the Contract to be imported for use at the Site.
  - (3) Plastics refer to plastic bottles/ containers, plastic sheets/ foam from packaging material.
  - (4) The Contractor shall also submit the latest forecast of the total amount of C&D materials expected to be generated from the Works, together with a breakdown of the nature where the total amount of C&D materials expected to be generated from the Works is equal to or exceeding 50,00 m<sup>3</sup>. (PS Clause 25.02A(7) refers).

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**APPENDIX I  
EVENT ACTION PLAN**

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# Appendix I - Event Action Plans

## Event/Action Plan for Air Quality

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
Action Level being exceeded by one sampling	<ol style="list-style-type: none"> <li>1. Identify source and investigate the causes of exceedance;</li> <li>2. Inform Contactor, IEC and ER;</li> <li>3. Repeat measurement to confirm finding.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check monitoring data submitted by ET;</li> <li>2. Check Contractor's working method.</li> </ol>	<ol style="list-style-type: none"> <li>1. Notify Contractor.</li> </ol>	<ol style="list-style-type: none"> <li>1. Rectify any unacceptable practice;</li> <li>2. Amend working methods if appropriate.</li> </ol>
Action Level being exceeded by two or more consecutive sampling	<ol style="list-style-type: none"> <li>1. Identify source and investigate the causes of exceedance;</li> <li>2. Inform Contractor, IEC and ER;</li> <li>3. Increase monitoring frequency to daily;</li> <li>4. Discuss with IEC and Contractor on remedial actions required;</li> <li>5. Assess the effectiveness of Contractor's remedial actions;</li> <li>6. If exceedance continues, arrange meeting with IEC and ER;</li> <li>7. If exceedance stops, cease additional monitoring.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check monitoring data submitted by ET;</li> <li>2. Check Contractor's working method;</li> <li>3. Discuss with ET and Contractor on possible remedial measures;</li> <li>4. Advise the ER on the effectiveness of the proposed remedial measures.</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of exceedance in writing;</li> <li>2. Notify Contractor;</li> <li>3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;</li> <li>4. Supervise implementation of remedial measures;</li> <li>5. Conduct meeting with ET and IEC if exceedance continues.</li> </ol>	<ol style="list-style-type: none"> <li>1. Discuss with ET and IEC on proper remedial actions;</li> <li>2. Submit proposals for remedial actions to ER and IEC within three working days of notification;</li> <li>3. Implement the agreed proposals;</li> <li>4. Amend proposal if appropriate.</li> </ol>
Limit Level being exceeded by one sampling	<ol style="list-style-type: none"> <li>1. Identify source and investigate the causes of exceedance;</li> <li>2. Inform Contractor, IEC, ER, and EPD;</li> <li>3. Repeat measurement to confirm finding;</li> <li>4. Assess effectiveness of Contractor's remedial actions and keep</li> </ol>	<ol style="list-style-type: none"> <li>1. Check monitoring data submitted by ET;</li> <li>2. Check Contractor's working method;</li> <li>3. Discuss with ET and Contractor on possible remedial measures;</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of exceedance in writing;</li> <li>2. Notify Contractor;</li> <li>3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be</li> </ol>	<ol style="list-style-type: none"> <li>1. Take immediate action to avoid further exceedance;</li> <li>2. Discuss with ET and IEC on proper remedial actions;</li> <li>3. Submit proposals for remedial actions to ER and IEC within three</li> </ol>

## Appendix I - Event Action Plans

	<p>EPD, IEC and ER informed of the results.</p>	<p>4. Advise the ER on the effectiveness of the proposed remedial measures.</p>	<p>implemented; 4. Supervise implementation of remedial measures; 5. Conduct meeting with ET and IEC if exceedance continues.</p>	<p>working days of notification; 4. Implement the agreed proposals.</p>
<p>Limit Level being exceeded by two or more consecutive sampling</p>	<p>1. Notify IEC, ER, Contractor and EPD; 2. Repeat measurement to confirm findings; 3. Carry out analysis of Contractor's working procedures to identify source and investigate the causes of exceedance; 4. Increase monitoring frequency to daily; 5. Arrange meeting with IEC, ER and Contractor to discuss the remedial actions to be taken; 6. Assess effectiveness of Contractor's remedial actions and keep EPD, IEC and ER informed of the results; 7. If exceedance stops, cease additional monitoring.</p>	<p>1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 4. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly.</p>	<p>1. Confirm receipt of notification of exceedance in writing; 2. Notify Contractor; 3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Supervise implementation of remedial measures; 5. If exceedance continues, consider stopping the Contractor to continue working on that portion of work which causes the exceedance until the exceedance is abated.</p>	<p>1. Take immediate action to avoid further exceedance; 2. Discuss with ET, ER and IEC on proper remedial actions; 3. Submit proposals for remedial actions to IEC within three working days of notification; 4. Implement the agreed proposals; 5. Submit further remedial actions if problem still not under control; 6. Stop the relevant portion of works as instructed by the ER until the exceedance is abated.</p>

# Appendix I - Event Action Plans

## Event/Action Plan for Construction Noise

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
Action Level being exceeded	<ol style="list-style-type: none"> <li>1. Notify ER, IEC and Contractor;</li> <li>2. Carry out investigation;</li> <li>3. Report the results of investigation to the IEC, ER and Contractor;</li> <li>4. Discuss with the IEC and Contractor on remedial measures required;</li> <li>5. Increase monitoring frequency to check mitigation effectiveness.</li> </ol> <p>(The above actions should be taken within 2 working days after the exceedance is identified)</p>	<ol style="list-style-type: none"> <li>1. Review the investigation results submitted by the ET;</li> <li>2. Review the proposed remedial measures by the Contractor and advise the ER accordingly;</li> <li>3. Advise the ER on the effectiveness of the proposed remedial measures.</li> </ol> <p>(The above actions should be taken within 2 working days after the exceedance is identified)</p>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of failure in writing;</li> <li>2. Notify Contractor;</li> <li>3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;</li> <li>4. Supervise the implementation of remedial measures.</li> </ol> <p>(The above actions should be taken within 2 working days after the exceedance is identified)</p>	<ol style="list-style-type: none"> <li>1. Submit noise mitigation proposals to IEC and ER;</li> <li>2. Implement noise mitigation proposals.</li> </ol> <p>(The above actions should be taken within 2 working days after the exceedance is identified)</p>
Limit Level being exceeded	<ol style="list-style-type: none"> <li>1. Inform IEC, ER, Contractor and EPD;</li> <li>2. Repeat measurements to confirm findings;</li> <li>3. Increase monitoring frequency;</li> <li>4. Identify source and investigate the cause of exceedance;</li> </ol>	<ol style="list-style-type: none"> <li>1. Discuss amongst ER, ET, and Contractor on the potential remedial actions;</li> <li>2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly.</li> </ol>	<ol style="list-style-type: none"> <li>1. Confirm receipt of notification of failure in writing;</li> <li>2. Notify Contractor;</li> <li>3. In consolidation with the IEC, agree with the Contractor on the remedial</li> </ol>	<ol style="list-style-type: none"> <li>1. Take immediate action to avoid further exceedance;</li> <li>2. Submit proposals for remedial actions to IEC and ER within 3 working days of notification;</li> <li>3. Implement the agreed proposals;</li> </ol>

## Appendix I - Event Action Plans

	<p>5. Carry out analysis of Contractor's working procedures;</p> <p>6. Discuss with the IEC, Contractor and ER on remedial measures required;</p> <p>7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results;</p> <p>8. If exceedance stops, cease additional monitoring.</p> <p>(The above actions should be taken within 2 working days after the exceedance is identified)</p>	<p>(The above actions should be taken within 2 working days after the exceedance is identified)</p>	<p>measures to be implemented;</p> <p>4. Supervise the implementation of remedial measures;</p> <p>5. If exceedance continues, consider stopping the Contractor to continue working on that portion of work which causes the exceedance until the exceedance is abated.</p> <p>(The above actions should be taken within 2 working days after the exceedance is identified)</p>	<p>4. Submit further proposal if problem still not under control;</p> <p>5. Stop the relevant portion of works as instructed by the ER until the exceedance is abated.</p> <p>(The above actions should be taken within 2 working days after the exceedance is identified)</p>
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# Appendix I - Event Action Plans

## Event/Action Plan for Landscape and Visual

EVENT ACTION LEVEL	ACTION			
	ET	IEC	ER	CONTRACTOR
Design Check	1. Check final design conforms to the requirements of EP and prepare report.	1. Check report. 2. Recommend remedial design if necessary	1. Undertake remedial design if necessary	
Non-conformity on one occasion	1. Identify Source 2. Inform IEC and ER 3. Discuss remedial actions with IEC, ER and Contractor 4. Monitor remedial actions until rectification has been completed	1. Check report 2. Check Contractor's working method 3. Discuss with ET and Contractor on possible remedial measures 4. Advise ER on effectiveness of proposed remedial measures. 5. Check implementation of remedial measures.	1. Notify Contractor 2. Ensure remedial measures are properly implemented	1. Amend working methods 2. Rectify damage and undertake any necessary replacement
Repeated Non-conformity	1. Identify Source	1. Check monitoring	1. Notify Contractor	1. Amend working methods

## Appendix I - Event Action Plans

	<p>Inform IEC and ER</p> <ol style="list-style-type: none"> <li>2. Increase monitoring frequency</li> <li>3. Discuss remedial actions with IEC, ER and Contractor</li> <li>4. Monitor remedial actions until rectification has been completed</li> <li>5. If non-conformity stops, cease additional monitoring</li> </ol>	<p>report</p> <ol style="list-style-type: none"> <li>2. Check Contractor's working method</li> <li>3. Discuss with ET and Contractor on possible remedial measures</li> <li>4. Advise ER on effectiveness of proposed remedial measures</li> <li>5. Supervise implementation of remedial measures.</li> </ol>	<ol style="list-style-type: none"> <li>2. Ensure remedial measures are properly implemented</li> </ol>	<ol style="list-style-type: none"> <li>2. Rectify damage and undertake any necessary replacement</li> </ol>
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**ANNEX I  
SUMMARY TABLE FOR MAJOR SITE  
ACTIVITIES UNDER THIS PROJECT**

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## Annex I – Summary Table of Major Site Activities under This Contract

Summary Table of Major Site Activities under This Contract

Site Portion	Site Activities
Road D1(part)	<ol style="list-style-type: none"><li>1. Removal of Traffic Deckings at Prince Edward Road East Outer Eastbound in front of Shek Ku Lung Road Playground</li><li>2. Reinstatement of Shek Ku Lung Road Playground</li><li>3. Reinstatement of Footpath of Prince Edward Road East in front of Shek Ku Lung Road Playground</li><li>4. Reinstatement of Stage 2</li><li>5. Reinstatement of Stage 1</li><li>6. Structural Works for LT2 &amp; ST2</li><li>7. Steel Works Erection for LT2 and ST2</li><li>8. Finishing and E&amp;M Works for LT2 and ST2</li><li>9. Road Works of Road D1 and D7</li></ol>

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**ANNEX II  
WEATHER CONDITIONS DURING  
MONITORING PERIOD**

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## Annex II – Weather Conditions During Monitoring Period

Reporting Month	General Weather Conditions
January 2017	Fine, Sunny and Drizzle
February 2017	Fine, Sunny and Drizzle
March 2017	Cloudy, Sunny and Fine
April 2017	Cloudy and Sunny
May 2017	Cloudy and Sunny
June 2017	Cloudy and Sunny
July 2017	Fine, Cloudy and Sunny
August 2017	Fine, Cloudy and Sunny
September 2017	Cloudy, Fine, Sunny and Drizzle
October 2017	Fine, Cloudy and Sunny
November 2017	Fine, Sunny and Drizzle
December 2017	Fine, Sunny
January 2018	Cloudy, Fine, Sunny and Drizzle
February 2018	Fine, Sunny and Drizzle
March 2018	Fine, Sunny and Drizzle
April 2018	Sunny and Fine
May 2018	Sunny and Drizzle
June 2018	Cloudy and Sunny
July 2018	Cloudy and Sunny
August 2018	Cloudy and Sunny
September 2018	Cloudy and Sunny
October 2018	Cloudy, Sunny and Fine
November 2018	Cloudy, Sunny and Fine
December 2018	Sunny and Fine
January 2019	Fine, Sunny and Drizzle
February 2019	Fine, Sunny and Drizzle
March 2019	Cloudy, Sunny and Fine
April 2019	Cloudy, Sunny and Fine
May 2019	Cloudy and Sunny
June 2019	Cloudy and Sunny
July 2019	Cloudy and Sunny
August 2019	Cloudy and Sunny
September 2019	Fine, Sunny and Drizzle
October 2019	Fine, Sunny and Drizzle
November 2019	Fine, Sunny and Drizzle

## Annex II – Weather Conditions During Monitoring Period

December 2019	Sunny and Fine
January 2020	Sunny and Fine
February 2020	Fine, Sunny and Drizzle
March 2020	Fine, Sunny and Drizzle
April 2020	Sunny and Drizzle
May 2020	Cloudy and Sunny
June 2020	Cloudy and Sunny
July 2020	Sunny and Drizzle
August 2020	Cloudy and Sunny
September 2020	Cloudy and Sunny
October 2020	Cloudy, Sunny and Fine
November 2020	Sunny and Fine
December 2020	Sunny and Fine
January 2021	Sunny and Fine
February 2021	Fine, Sunny and Drizzle
March 2021	Fine, Sunny and Drizzle
April 2021	Sunny and Fine
May 2021	Cloudy and Sunny
June 2021	Cloudy and Sunny
July 2021	Cloudy and Sunny
August 2021	Cloudy and Sunny
September 2021	Sunny
October 2021	Cloudy and Sunny
November 2021	Cloudy, Sunny and Fine
December 2021	Cloudy, Sunny and Fine
January 2022	Cloudy, Sunny and Fine
February 2022	Cloudy, Rainy, Sunny and Drizzle
March 2022	Drizzle, Sunny and Fine
April 2022	Sunny and Drizzle
May 2022	Sunny and Drizzle
June 2022	Cloudy, Fine, Sunny and Drizzle
July 2022	Cloudy, Sunny and Drizzle
August 2022	Sunny and Fine
September 2022	Sunny
October 2022	Cloudy and Sunny
November 2022	Fine, Cloudy and Sunny
December 2022	Cloudy, Fine, Sunny and Drizzle

## Annex II – Weather Conditions During Monitoring Period

January 2023	Fine, Sunny and Drizzle
February 2023	Sunny and Fine
March 2023	Fine, Cloudy and Sunny
April 2023	Cloudy and Sunny
May 2023	Fine, Cloudy and Sunny
June 2023	Cloudy, Sunny and Drizzle
July 2023	Cloudy and Sunny
August 2023	Fine, Cloudy and Sunny
September 2023	Sunny and Fine
October 2023	Cloudy and Sunny
November 2023	Sunny and Fine
December 2023	Fine, Cloudy and Sunny
January 2024	Fine, Cloudy and Sunny
February 2024	Fine, Cloudy and Sunny
March 2024	Fine, Cloudy and Sunny
May 2024	Fine, Cloudy and Sunny
June 2024	Fine, Cloudy and Sunny
July 2024	Fine, Cloudy and Sunny
August 2024	Sunny and Fine
September 2024	Fine, Cloudy and Sunny
October 2024	Sunny and Fine
November 2024	Cloudy and Sunny
December 2024	Sunny and Fine
January 2025	Sunny and Fine
February 2025	Fine, Sunny and Drizzle
March 2025	Fine, Sunny and Drizzle
April 2025	Fine, Sunny and Drizzle
May 2025	Fine, Sunny and Drizzle
June 2025	Sunny

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**ANNEX III  
COMPARISON OF EM&A DATA AND  
EIA PREDICTIONS**

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**Annex III – Comparison of EM&A Data and EIA Predictions**

**Comparison of 1-hr TSP data with EIA predictions**

Stations	ASR ID	Predicted 1-hr TSP Concentration in EIA Report (AEIAR-130/2009), $\mu\text{g}/\text{m}^3$		Measured 1-hr TSP conc. January 2017 to June 2025, $\mu\text{g}/\text{m}^3$		Baseline	
		Scenario1 (Mid 2009 to Mid 2013)	Scenario2 (Mid 2013 to Late 2016),	Average	Range	Average	Range
		AM2 – Lee Kau Yan Memorial School	A32	290	312	76.6	9.0-343.7

**Comparison of 24-hr TSP data with EIA predictions**

Stations	ASR ID	Predicted 24-hr TSP Concentration in EIA Report (AEIAR-130/2009), $\mu\text{g}/\text{m}^3$		Measured 24-hr TSP conc. January 2017 to June 2025, $\mu\text{g}/\text{m}^3$		Baseline	
		Scenario1 (Mid 2009 to Mid 2013)	Scenario2 (Mid 2013 to Late 2016),	Average	Range	Average	Range
		AM2 – Lee Kau Yan Memorial School <sup>(1)</sup>	A32	145	169	66.9	23.0-152.0
AM2(A) – Ng Wah Catholic Secondary School	N/A	N/A <sup>(2)</sup>		59.4	8.6-177.9	N/A	N/A

Remarks:

- (1) 24-hour TSP air quality monitoring at AM2 was not accepted by the premise. 24-hour TSP air quality monitoring was relocated from AM2 to AM2(A) since August 2017
- (2) The monitoring stations AM2(A) are not specified in the EIA Report as required monitoring locations

### Comparison of Noise Monitoring Data with EIA predictions

Stations	NSR ID	Predicted Mitigated Construction Noise Levels in EIA Report (AEIAR-130/2009), dB(A)	Report Period (January 2017 to June 2025), L <sub>eq</sub> (30min) dB(A)		Baseline L <sub>eq</sub> (30min) dB(A)		Background L <sub>eq</sub> (30min) dB(A)	
			Average	Range	Average	Range	Average	Range
M3 - Cognito College <sup>(1)</sup>	N11	47-75	67.5	58.0-80.0	N/A	N/A	76.5 <sup>(4)</sup>	71.0-80.0 <sup>(4)</sup>
M3(A) - The Bridge connecting The Latitude	N/A	N/A <sup>(3)</sup>	69.6	54.5-78.8	N/A	N/A	74.4 <sup>(4)</sup>	66.5-79.1 <sup>(4)</sup>
M4 - Lee Kau Yan Memorial School	N13	44-74	73.7	55.6-76.7	74.2	60.4-77.0	N/A	N/A
M5(C) - Mercy Grace's Home <sup>(2)</sup>	N/A	N/A <sup>(3)</sup>	70.8	56.4-81.0	N/A	N/A	76.5 <sup>(4)</sup>	69.1-81.0 <sup>(4)</sup>

Remark:

- (1) Due to the relocation of M3 Cognito College to a new school building complex, the noise monitoring at M3 was relocated to the alternative noise monitoring locations M3(A), The Bridge connecting The Latitude from February 2020.
- (2) Due to the outbreak of COVID-19, the noise monitoring at M5(C) was relocated to the ground floor of Mercy Grace's Home.
- (3) No construction noise level was predicted in EIA Report (AEIAR-130/2009)
- (4) The background Noise Level was recorded during the Lunch Hour of Construction Site (i.e. 12:00-13:00) and to be used as the referencing value for compliance checking for Noise Action and Limit Level.