**Civil Engineering and Development Department**

# EP-344/2009 – New Sewage Pumping Stations Serving KTD
# EP-337/2009 – New Distributor Roads Serving the Planned KTD

## Contract No. KL/2012/03
## Kai Tak Development –Stage 4 Infrastructure at Former North Apron Area

Monthly EM&A Report

April 2020

(Version 1.0)

| | |
|---|---|
| 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.

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

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ANEWR

Kai Tak Development Site Office
Contract No. KL/2012/03
c/o AECOM
8/F, Grand Central Plaza, Tower 2
138 Shatin Rural Committee Road
Shatin
New Territories
Hong Kong

Attention: Mr Mickey Lee

Your reference:

Our reference: HKCEDD11/50/106531

Date: 13 May 2020

**BY EMAIL & POST**
**(email: RE3@ktd-5a.com)**

Dear Sirs

Agreement No. EDO 08/2018
Independent Environmental Checker (IEC) for CEDD Contract No. KL/2012/03
Kai Tak Development – Stage 4 Infrastructure at Former North Apron Area
Verification of Monthly EM&A Report for April 2020

We refer to emails of 6 and 8 May 2020 attaching a Monthly EM&A Report for April 2020 prepared by the ET.

We have no further comment and hereby verify the captioned report in accordance with Clause 3.3 of the Environmental Permit nos. EP-337/2009 and EP-344/2009.

Please do not hesitate to contact the undersigned or our Ms Katherine Chu on 2618 2831 should you have any queries.

Yours faithfully
ANEWR CONSULTING LIMITED

Adi Lee
Independent Environmental Checker

LYMA/CWKK/csym

cc CEDD – Mr C K Choi (email: ckchoi@cedd.gov.hk)
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# EXECUTIVE SUMMARY

## Introduction

1. This is the 77th Monthly Environmental Monitoring and Audit (EM&A) Report prepared by Wellab Ltd. for "Contract No. KL/2012/03 - Kai Tak Development –Stage 4 Infrastructure at Former North Apron Area" (Hereafter referred to as "the Project"). This contract comprises the construction of Schedule 2 Designated Projects (DP) Road D2 & Sewage Pumping Station PS2 and PS NPS which forms a part of the works under two Environmental Permits (EP), EP-337/2009 and EP-344/2009. The title of the designated projects under Environmental Permit No.: EP-344/2009 is "New sewage pumping stations serving Kai Tak Development" and under Environmental Permit No.: EP-337/2009 is "New distributor roads serving the planned Kai Tak Development". This report documents the findings of EM&A Works conducted from 1st to 30th April 2020.

2. All major construction works were completed, the site activities undertaken in the reporting month included:
   - Daily Cleaning
   - Weeding at roadside planting areas
   - Painting cladding at PS2
   - Installing steel platforms at PS2
   - Plumbing works for irrigation system

## Environmental Monitoring Works

3. 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.

4. Summary of the breaches of action and limit levels in the reporting month for the Project is tabulated in **Table I**.

**Table I Breaches of Action and Limit Levels for the Project in the Reporting Month**

| Parameter | No. of Project-related Exceedance | | Action Taken |
|---|---|---|---|
| | Action Level | Limit Level | |
| 1-hr TSP | 0 | 0 | N/A |
| 24-hr TSP | 0 | 0 | N/A |
| Noise | 0 | 0 | N/A |

5. The Proposal for Cessation of Construction Phase EM&A Works at Road D2 for Environmental Permits (EP) No. EP-377/2009 was approved by the EPD on 15th April 2019. The impact environmental monitoring has been ceased since 15th April 2019. The As-built drawing for Road D2 was submitted to EPD on 13 August 2019. Weekly site inspection, Landscape and Visual Monitoring and reporting for Environmental Permits (EP) No. EP-377/2009 have been ceased since 15 August 2019.

## Environmental Licenses and Permits

6. Licenses/Permits granted to the Project include the Environmental Permit (EP) for the Project, Environmental Permits No. EP-344/2009 and EP-337/2009 were issued on 23rd April 2009.

7. Registration of Chemical Waste Producer (Waste Producer Number: 5213-286-K2958-05).

8. Water Discharge License (WT00020971-2015).

## Key Information in the Reporting Month

9. Summary of complaint received, reporting changes and notifications of any summons and successful prosecutions in the reporting month is tabulated in **Table II**.

**Table II Summary Table for Key Information in the Reporting Month**

| Event | Event Details | | Action Taken | Status | Remark |
|---|---|---|---|---|---|
| | Number | Nature | | | |
| Complaint received | 0 | --- | N/A | N/A | --- |
| Reporting Changes | 0 | --- | N/A | N/A | --- |
| Notifications of any summons & prosecutions received | 0 | --- | N/A | N/A | --- |

## Future Key Issues

10. The future key environmental issues in the coming month include:

- Dust generation from stockpiles of dusty materials;
- Proper storage of construction materials on site;
- Storage of chemicals/fuel and chemical waste/waste oil on site;
- Accumulation of general and construction waste on site.

# 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 Kuk, Kowloon Bay, Kwun Tong and Cha Kwo Ling. It covers a land area of about 328 hectares. Stage 4 Infrastructure at Former North Apron Area is one of the construction stages of KTD. Schedule 2 DPs in this Project include new distributor roads serving the planned KTD and new sewage pumping stations serving the planned KTD. The general layout of the Project is shown in **Figure 1.**

1.2 Two Environmental Permits (EPs) No. EP-344/2009 and EP-337/2009 were also issued to the Permit Holder Civil Engineering and Development Department on 23 April 2009 for new sewage pumping stations serving the planned KTD and new distributor roads serving the planned KTD respectively.

1.3 A study of environmental impact assessment (EIA) was undertaken to identify the key issues of air quality, noise, water quality, waste, land contamination, cultural heritage and landscape and visual impact, and recommend possible mitigation measures associated with the works. The EIA Report (Register No. AEIAR-130/2009) was approved by the Environmental Protection Department (EPD) on 4 April 2009.

1.4 Wellab Limited (Wellab) is commissioned by Kwan On Construction Co., Ltd. (the Contractor) on 1st January 2019 to undertake the role of the Environmental Team (ET) for the Contract No. KL/2012/03 - Stage 4 Infrastructure at Former North Apron Area. The construction work under KL/2012/03 comprises the construction of Road D2 & Sewage Pumping Station PS2 and PS NPS which forms a part of the works under two EPs (EP-337/2009 and EP-344/2009).

1.5 The construction commencement of this Contract was on 1st December 2013 for Road D2, Sewage Pumping Station PS2 and PS NPS. This is the 77th Monthly EM&A report summarizing the EM&A works for the Project from 1st to 30th April 2020.

## Project Organizations

1.6 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.
- Environmental Team (ET) – Wellab Limited (WL).
- Independent Environmental Checker (IEC) – ANewR Consulting Limited. (ANewR).
- Contractor – Kwan On Construction Co., Ltd. (Kwan On).

1.7 The key contacts of the Project are shown in **Table 1.1** and **Figure 5**.

**Table 1.1 Key Project Contacts**

| Party | Role | Contact Person | Position | Phone No. | Fax No. |
|---|---|---|---|---|---|
| CEDD | Project Proponent | Mr. C. K. Choi | Senior Engineer | 3106 2583 | 3579 4512 |
| AECOM | Engineer's Representative | Mr. W. K. Leung | CRE | 2798 0771 | 3013 8864 |
| | | Mr. Mickey Lee | RE | | |
| Wellab | Environmental Team | Dr. Priscilla Choy | Environmental Team Leader | 2151 2089 | 3107 1388 |
| | | Ms. Ivy Tam | Project Coordinator and Audit Team Leader | 2151 2090 | |
| ANewR | Independent Environmental Checker | Mr. Adi Lee | Independent Environmental Checker | 2618 2831 | 3007 8648 |
| Kwan On | Contractor | Mr. P.H. Ho | Site Agent | 2889 8675 | 2558 6900 |
| | | | | 6146 6761 (Hotline telephone number) | |

**Construction Activities undertaken during the Reporting Month**

1.8 The site activities undertaken in the reporting month included:

- Daily Cleaning
- Weeding at roadside planting areas
- Painting cladding at PS2
- Installing steel platforms at PS2
- Plumbing works for irrigation system

1.9 The construction programme showing the inter-relationship with environmental protection/mitigation measures is presented in **Table 1.2**.

**Table 1.2 Construction Programme Showing the Inter-Relationship with Environmental Protection/Mitigation Measures**

| Construction Works | Generated Major Environmental Impact | Control Measures |
|---|---|---|
| Construction of superstructure of Pumping Station PS2 and NPS; | Dust, Water Quality, Waste Management | • Sufficient watering of the works site with active dust emitting activities;<br>• Properly cover the stockpiles;<br>• Appropriate desilting/sedimentation devices provided on site for treatment before discharge;<br>• Well maintain the drainage system to prevent the spillage of wastewater during heavy rainfall; and<br>• On-site waste sorting and implementation of trip ticket system. |
| Backfilling between sewerage manholes 1K1_1 and FMH10_340 and construction of manhole FMH10_370a at L6; | Dust, Noise | • Use of quiet plant and well-maintained construction plant; and<br>• Properly cover the stockpiles; |
| Installation of precast unit and construction of in-situ portions of Box Culvert B6; Construction of jacking pits nos. 1 and 2; Installation of gas pipe at pit no. 10; Construction of washout chamber at pit no. 11; | Noise, Waste Management | • Use of quiet plant and well-maintained construction plant; and<br>• Provide hoarding.<br>• Good management and control on construction waste reduction |
| Construction of sewerage manhole FMH 10 at Bailey Street; Widening works of Sung Wong Toi Road. | Noise | • Use of quiet plant and well-maintained construction plant; and<br>• Provide hoarding. |
| Pipe laying from manhole SMH2204 to Box Culvert B6; Laying of rising mains from PS2 to chainage CHA-18; Pipe laying from stormwater manholes SMH1962 to SMH1963 and construction of manholes SMH1953 and SMH1963 at L6; Installation of DCS; | Noise, Water Quality | • Use of quiet plant and well-maintained construction plant; and<br>• Well maintain the drainage system to prevent the spillage of wastewater during heavy rainfall. |

## Summary of EM&A Requirements

1.10 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.

1.11 The advice on the implementation status of environmental protection and pollution control/mitigation measures is summarized in Section 6 of this report.

1.12 This report presents the implementation of the EM&A programme for the Project from 1st to 30th April 2020.

1.13 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 **Table 1.3** (see **Figure 2 and 3** for their locations).

**Table 1.3 Air Quality and Noise Monitoring Stations for this Project**

| Locations | Monitoring Stations In accordance with EM&A Manual | Alternative Monitoring Stations |
|---|---|---|
| **Air Quality Monitoring Stations** | | |
| AM2 - Lee Kau Yan Memorial School | Yes | AM2(A) – Ng Wah Catholic Secondary School |
| AM3 – Sky Tower | No | AM3(A) – Holy Trinity Bradbury Centre<br>AM3(B) – Family Planning Association of Hong Kong** |
| AM4 – Grand Waterfront | No | AM4(A) – EMSD Workshop* |
| AM5 – CCC Kei To Secondary School | No | N/A^ |
| AM6 – Site 1B4 (Planned) | N/A | |
| **Noise Monitoring Stations** | | |
| M6 – Holy Carpenter Primary School | No | M6(A) – Oblate Primary School |
| M7 – CCC Kei To Secondary School | Yes | N/A |
| M8 – Po Leung Kuk Ngan Po Ling College | No | M8(A) – Po Leung Kuk Ngan Po Ling College (Site Boundary) # |
| M9 – Tak Long Estate | Yes | N/A |
| M10 – Site 1B4 (Planned) | N/A | |

Remarks:

- "Yes" – Monitoring station is the same as that stated in EM&A Manual
- No – Monitoring station is not the same as that stated in EM&A Manual. Request for carrying monitoring works at the monitoring stations stated in EM&A Manual was rejected by owner of premise. Alternative monitoring stations were proposed by the ET of Schedule 3 EIA and approved by the EPD.
- N/A – No alternative monitoring station is required.
- **AM3(B) – The permission of air quality monitoring works (24-hour TSP) at station AM3(A) was denied in November 2017, the monitoring works were resumed at the alternative station – AM3(B) in December 2017.
- *AM4(A) – EMSD Workshop was cancelled due to unsuccessful accessibility of the facility. 1-hr TSP monitoring was conducted at AM4(B) – Ma Tau Kuk Road (next to EMSD workshop) temporarily and 24-hr TSP monitoring was conducted at AM4(C) – New Pumping Station under Contract No. KL/2012/03.
- ^AM5(A) – Po Leung Kuk Ngan Po Ling College was cancelled because no permission was granted from the premise. Air quality monitoring was carried out at AM5 – CCC Kei To Secondary School.
- # The alternative position of M8 (remark as M8(A)) was adopted on 20th March 2019.

1.14 According to the Environmental Monitoring and Audit Manual (EM&A Manual) of the Kai Tak Development (KTD) Schedule 3 Environmental Impact Assessment (EIA) Report, the impact monitoring at the designated monitoring stations as required in KTD EM&A Manual under the EP, has been conducted in Environmental Monitoring Works for Kai Tak Development under Schedule 3 of KTD, which is on-going starting from December 2010, when the impact monitoring data under Schedule 3 of KTD were adopted for the Project.

1.15 Although Contract no. KLN/2013/16 under Schedule 3 of KTD has been superseded by KLN/2016/09 since early March 2017, the ET continued to adopt the impact monitoring data under Schedule 3 of KTD until appropriate new arrangement is agreed.

1.16 The Proposal for Cessation of Construction Phase EM&A Works at Road D2 for Environmental Permits (EP) No. EP-377/2009 was approved by the EPD on 15 April 2019. The impact environmental monitoring has been ceased since 15 April 2019. The As-built drawing for Road D2 was submitted to EPD on 13 August 2019. Weekly site inspection, Landscape and Visual Monitoring and reporting for Environmental Permits (EP) No. EP-377/2009 have been ceased since 15 August 2019.

1.17 Weekly site inspection, Landscape and Visual monitoring and reporting will be remained until the completion of landscape works for Environmental Permits (EP) No. EP-344/2009.

**Status of Compliance with Environmental Permits Conditions**

1.18 The status of required submission related to this Project under the Environmental Permits No. EP-337/2009 and EP-344/2009 is summarized in the **Table 1.4** and **Table 1.5** respectively:

**Table 1.4 Summary Table for Required Submission under EP No. EP-337/2009**

| EP Conditions | Submission | Submission Date | Remark |
|---|---|---|---|
| 1.11 | Notification of Commencement Date of Construction of Project | 31 October 2013 | For Road D2 |
| 2.3 | Management Organization of Main Construction Companies | 31 October 2013 | For Contract No. KL/2012/03 |
| 2.4 | Design Drawing(s) of the Project | 28 October 2013 | For Road D2 |
| 2.11 | Landscape Mitigation Plan(s) for distributors road(s) | 7 January 2014 | For Road D2 |
| 2.12 | As-built drawing(s) for the distributor road(s) | 13 August 2019 | For Road D2 |
| 3.2 | Baseline Monitoring Report | 26 November 2010 (Part I)<br>24 December 2010 (Part II) | / |
| 3.3 | Four hard copies and one electronic copy of the Monthly EM&A Report No. 76 (March 2020) | 14 April 2020 | Monthly EM&A Report for Contract No. KL/2012/03 |

**Table 1.5 Summary Table for Required Submission under EP No. EP-344/2009**

| EP Conditions | Submission | Submission Date | Remark |
|---|---|---|---|
| 1.11 | Notification of Commencement Date of Construction of Project | 31 October 2013 | For Pumping Station PS2 and PS NPS |
| 2.3 | Management Organization of Main Construction Companies | 31 October 2013 | For Contract No. KL/2012/03 |
| 2.4 | Design Drawing(s) of the Project | 28 October 2013 | For Pumping Station PS2 and PS NPS |

| EP Conditions | Submission | Submission Date | Remark |
|---|---|---|---|
| 2.11 | Landscape Mitigation Plan(s) for sewage pumping station(s) | 7 January 2014 | For Pumping Station PS2 and PS NPS |
| 2.12 | As-built drawing(s) for the sewage pumping station (s) | To be submitted at least one week before the commencement of operation of distributor road(s) | |
| 3.2 | Baseline Monitoring Report | 26 November 2010 (Part I)<br>24 December 2010 (Part II) | / |
| 3.3 | Four hard copies and one electronic copy of the Monthly EM&A Report No. 76 (March 2020) | 14 April 2020 | Monthly EM&A Report for Contract No. KL/2012/03 |

# 2. AIR QUALITY

## Monitoring Requirements

2.1 According to EM&A Manual under the EPs, 1-hour and 24-hour Total Suspended Particulates (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 Seven designated monitoring stations were selected for air quality monitoring programme. Impact dust monitoring was conducted at six of the air quality monitoring stations (AM2, AM2(A), AM3(A), AM3(B), AM4(C) and AM5. **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 | Locations | Location of Measurement |
|---|---|---|
| AM2 | Lee Kau Yan Memorial School | Rooftop (about 8/F) Area |
| AM2(A) | Ng Wah Catholic Secondary School | Rooftop (about 8/F) Area |
| AM3(A) | Holy Trinity Bradbury Centre | Rooftop (about 8/F) Area |
| AM3(B) | Hong Kong Family Planning Association | Rooftop (about 4/F) Area |
| AM4(C) | New Pumping Station | Rooftop (about 6/F) Area |
| AM5 | CCC Kei To Secondary School | Rooftop (about 10/F) Area |
| AM6 | PA 15 | Site 1B4 (Planned) |

2.3 The Proposal for Cessation of Construction Phase EM&A Works at Road D2 for Environmental Permits (EP) No. EP-377/2009 was approved by the EPD on 15th April 2019. The impact environmental monitoring has been ceased since 15th April 2019.

2.4 1-hr TSP and 24-hr TSP monitoring were not required for Environmental Permits (EP) No. EP-344/2009.

# 3. NOISE

## Monitoring Requirements

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

## Monitoring Locations

3.2 Five designated monitoring stations were selected for noise monitoring programme. Noise monitoring was conducted at four designated monitoring stations (M6, M7, M8 and M9). **Figure 3** shows the locations of these stations.

3.3 Construction noise monitoring at Station M6 – Holy Carpenter Primary School was rejected by the premise owner on 6th October 2014. The monitoring station has been relocated at a proposed alternative noise monitoring station M6(A) – Oblate Primary School since 10th October 2014 to carry out the monitoring works.

3.4 The proposal for alternative position of M8 (remark as M8(A)) was agreed by IEC on 20th March 2019 in accordance with the Section 2.3.9 of EM&A Manual of the Project and the Environmental Protection Department (EPD) has no major objection on the proposal.

**Table 3.1 Noise Monitoring Stations**

| Monitoring Stations | Locations | Location of Measurement |
|---|---|---|
| *M6(A) | Oblate Primary School | Rooftop (about 7/F) Area |
| M7 | CCC Kei To Secondary School | Rooftop (about 8/F) Area |
| ^M8(A) | Po Leung Kuk Ngan Po Ling College (Site Boundary) | Ground Level (at a position 3m above the ground) |
| M9 | Tak Long Estate | Car Park Building (about 2/F) |
| M10 | Site 1B4 (Planned) | - |

Remarks:
* Alternative noise monitoring station for M6 – Holy Carpenter Primary School from 10th October 2014 onwards
^ The proposal for alternative position of M8 (remark as M8(A)) was agreed by IEC on 20th March 2019 in accordance with the Section 2.3.9 of EM&A Manual of the Project and the Environmental Protection Department (EPD) has no major objection on the proposal. The Free Field noise measurement was adopted for Station M8(A) and its baseline reference noise level was adjusted with a correction of +3dB(A).

3.5 The Proposal for Cessation of Construction Phase EM&A Works at Road D2 for Environmental Permits (EP) No. EP-377/2009 was approved by the EPD on 15 April 2019. The impact environmental monitoring has been ceased since 15 April 2019.

3.6 Noise monitoring was not required for Environmental Permits (EP) No. EP-344/2009.

# 4. LANDSCAPE AND VISUAL

## Monitoring Requirements

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

4.2 The Proposal for Cessation of Construction Phase EM&A Works at Road D2 for Environmental Permits (EP) No. EP-377/2009 was approved by the EPD on 15 April 2019. The impact environmental monitoring has been ceased since 15 April 2019. The As-built drawing for Road D2 was submitted to EPD on 13 August 2019. Weekly site inspection, Landscape and Visual Monitoring and reporting for Environmental Permits (EP) No. EP-377/2009 have been ceased since 15 August 2019.

## Results and Observations

4.3 Site audits were carried out on a weekly basis to monitor and audit the timely implementation of landscape and visual mitigation measures within the site boundaries of this Project. The summaries of site audits are attached in **Appendix B**.

4.4 No non-compliance of the landscape and visual impact was recorded in the reporting month.

4.5 In accordance with the Action Plan presented in **Appendix C**, no corrective actions were required in the reporting month.

# 5. ENVIRONMENTAL AUDIT

## Site Audits

5.1 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. The summaries of site audits are attached in **Appendix B**.

5.2 The Proposal for Cessation of Construction Phase EM&A Works at Road D2 for Environmental Permits (EP) No. EP-377/2009 was approved by the EPD on 15 April 2019. The impact environmental monitoring has been ceased since 15 April 2019. The As-built drawing for Road D2 was submitted to EPD on 13 August 2019. Weekly site inspection, Landscape and Visual Monitoring and reporting for Environmental Permits (EP) No. EP-377/2009 have been ceased since 15 August 2019.

5.3 Site audits were conducted on 3rd, 8th, 17th, 22ndand 29th April 2020 in the reporting month. The monthly IEC audit on 29th April 2020. No non-compliance was observed during the site audits.

## Status of Environmental Licensing and Permitting

5.4 All permits/licenses obtained for the Project are summarized in Table 5.1.

**Table 5.1 Summary of Environmental Licensing and Permit Status**

| Permit No. | Valid Period | | Details | Status |
|---|---|---|---|---|
| | From | To | | |
| **Environmental Permit (EP)** | | | | |
| EP-337/2009 | 23/04/09 | N/A | Construction of new distributor roads serving the planned Kai Tak development. | Valid |
| EP-344/2009 | 23/04/09 | N/A | Construction of a new sewage pumping station serving the planned Kai Tak development with installed capacity of more than 2,000 $m^3$ per day and a boundary of which is less than 150m from an existing or planned residential area or educational institution. | Valid |
| **Effluent Discharge License** | | | | |
| WT00020971-2015 | 22/04/15 | 21/04/20 | Discharge License for the discharge of wastewater from the construction site including contaminated surface run-off to the communal storm water drain | Expired |
| **Registration of Chemical Waste Producer** | | | | |
| 5213-286-K2958-05 | -- | -- | Registration of chemical waste producer for chemical waste produced during construction of Stage 4 at former North Apron Area Infrastructure. | Valid |

**Status of Waste Management**

5.5 The amount of wastes generated by the major site activities of this Project during the reporting month is shown in **Appendix F**.

5.6 In respect of the dump truck cover, the Contractor is advised to take record photos and inspection to ensure that the skips of all dump trucks have been fully covered before leaving the site.

**Implementation Status of Environmental Mitigation Measures**

5.7 During site inspections in the reporting month, no non-conformance was identified. ET weekly site inspections were carried out during the reporting month and the observations and recommendations are summarized in Table 5.2.

**Table 5.2 Observations and Recommendations of Site Inspections for EP-344/2009**

| Parameters | Date | Observations and Recommendations | Follow-up |
|---|---|---|---|
| ***Water Quality*** | 8th April 2020 | Reminder:<br>Ponding water should be avoided at site office. | Ponding water was cleared. |
| ***Air Quality*** | **--** | **--** | **--** |
| ***Noise*** | -- | -- | **--** |
| ***Waste/Chemical Management*** | -- | -- | **--** |
| ***Landscape and Visual*** | -- | -- | **--** |
| ***Permits /Licences*** | -- | -- | **--** |

**Summary of Mitigation Measures Implemented**

5.8 The monthly IEC audit was carried out on 29th April 2020, the summary were recorded as follows:

Follow up of last monthly audit:
- Oil stain has been cleaned.

Observation(s) in the reporting month:
- No major environmental deficiency was observed during the previous site audit.

5.9 An updated summary of the EMIS is provided in **Appendix D**.

**Implementation Status of Event Action Plans**

5.10 The Event Action Plans for air quality, noise and landscape and visual are presented in **Appendix C**.

Environmental Monitoring

5.11 The Cessation of Impact Environmental Monitoring Works (Construction Phase) was approved by the EPD. Impact Environmental Monitoring was ceased since 15th April 2019.

Landscape and visual

5.12 No non-compliance was recorded in the reporting month.

**Summary of Complaint, Warning, Notification of any Summons and Successful Prosecution**

5.13 No environmental complaint and environmental prosecution was received in the reporting month. The summaries of environmental complaint, warning, summon and notification of successful prosecution for the Project are presented in **Appendix E**.

# 6. FUTURE KEY ISSUES

6.1 Major site activities undertaken for the coming two months include:

- Daily Cleaning
- Weeding at roadside planting areas
- Painting cladding at PS2
- Installing steel platforms at PS2
- Plumbing works for irrigation system

6.2 The tentative construction program for the Project is provided in **Appendix G.**

**Key Issues for the Coming Month**

6.3 Key environmental issues in the coming month include:

- Dust generation from stockpiles of dusty materials,;
- Proper storage of construction materials on site;
- Storage of chemicals/fuel and chemical waste/waste oil on site;
- Accumulation of general and construction waste on site.

**6.4** The tentative program of major site activities and the impact prediction and environmental mitigation measures for the coming two months, i.e. May 2020 and June 2020 are summarized as follows:

**Table 6.1 Summary of the tentative program of major site activities, the impact prediction and control measures for May 2020 and June 2020**

| Construction Works | Major Impact Prediction | Control Measures |
|---|---|---|
| As mentioned in Section 6.1 | Air quality impact (dust) | a) Covering stockpiles with tarpaulin or similar means; |
| | Water quality impact (surface run-off) | b) Provision of measures to prevent discharge into the stream; |
| | Noise Impact | c) Controlling the number of plants use on site; and<br>d) Regular maintenance of machines. |

# 7. CONCLUSIONS AND RECOMMENDATIONS

## Conclusions

7.1 The Proposal for Cessation of Construction Phase EM&A Works at Road D2 for Environmental Permits (EP) No. EP-377/2009 was approved by the EPD on 15 April 2019. The impact environmental monitoring has been ceased since 15th April 2019. The As-built drawing for Road D2 was submitted to EPD on 13 August 2019. Weekly site inspection, Landscape and Visual Monitoring and reporting for Environmental Permits (EP) No. EP-377/2009 have been ceased since 15 August 2019.

7.2 Weekly site inspection, Landscape and Visual Monitoring and reporting will be remained until the completion of Landscape Works for Environmental Permits (EP) No. EP-344/2009.

Complaints, Notification of any Summons and Prosecution Received

7.3 No environmental complaint and environmental prosecution was received in the reporting month. The summaries of environmental complaint, warning, summon and notification of successful prosecution for the Project are presented in **Appendix E**.

## Recommendations

7.4 According to the environmental audit performed in the reporting month, the following recommendations were made:

*Air Quality Impact*
- To implement dust suppression measures on stockpiles.

*Noise Impact*
- To inspect the noise sources inside the site.
- To disperse the locations of noisy equipments and position the equipments as far away as possible from sensitive receivers.

*Water Impact*
- To prevent any surface runoff discharge into any stream course.

*Waste/Chemical Management*
- To check for any accumulation of waste materials or rubbish on site.
- To ensure the performance of sorting of C&D materials at source (during generation);
- To avoid any discharge or accidental spillage of chemical waste or oil directly from the site.
- To provide proper storage area or drip trays for oil containers/ equipment on site.
- To avoid improper handling or storage of oil drum on site.

*Landscape and Visual*
- To protect the existing trees to be retained.
- To transplant the trees unavoidably affected by the works.
- To control of night-time lighting.
- To provide decorative screen hoarding.
- To complete landscape works at site area as early as possible.

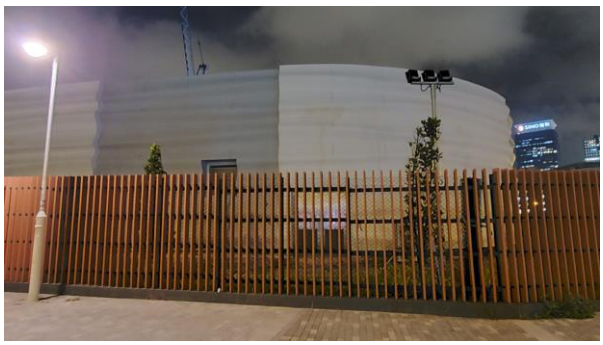
**Effectiveness of Environmental Management**

7.5 The above recommendations and the recommended mitigation measures in the EM&A Manual were carried out by the Contractor during construction. No non-compliance was recorded during the environmental site inspections as shown in **Appendix B**.

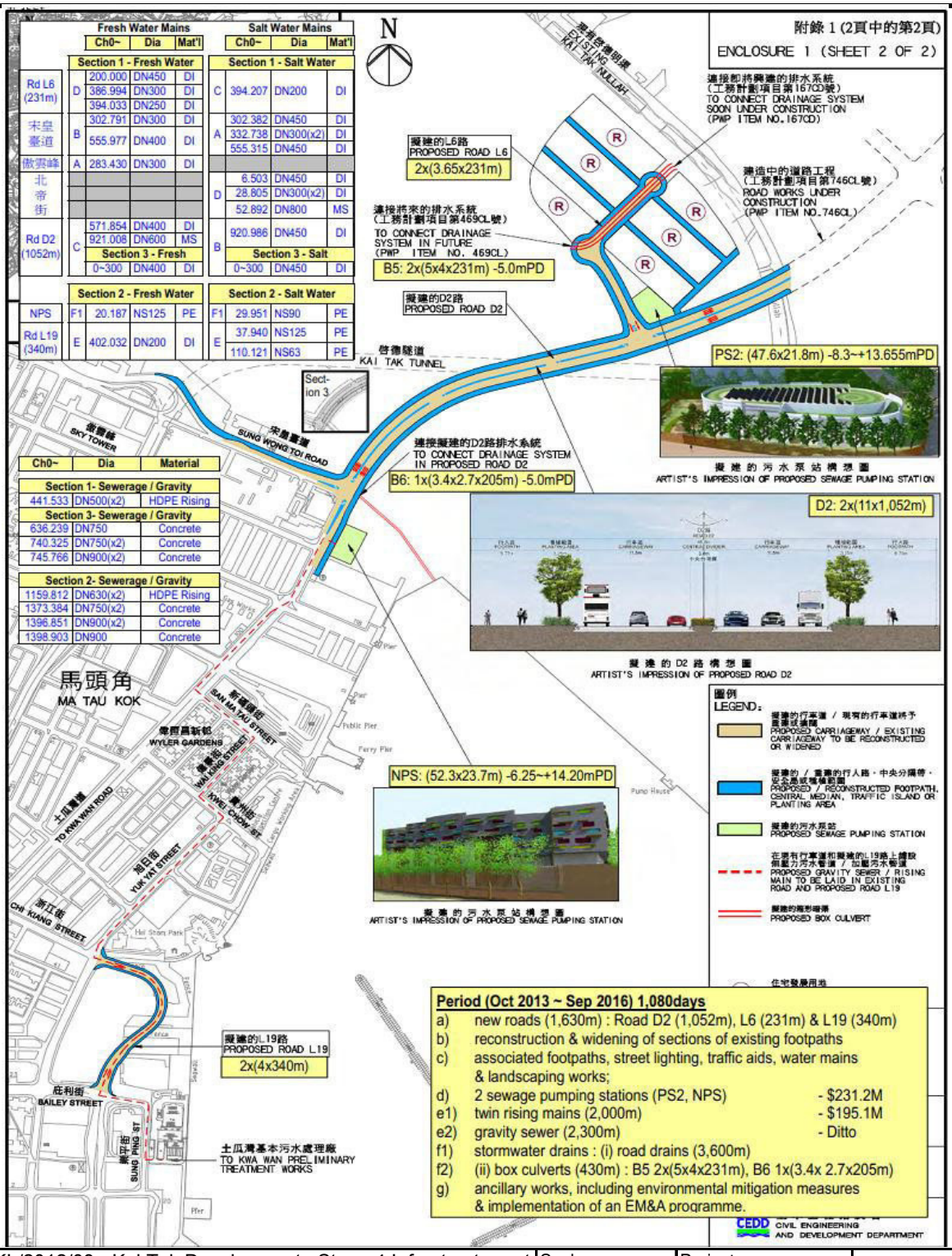
7.6 The effectiveness of environmental management is satisfactory as the above recommendations are met. Some of the examples of mitigation measures for the following recommendations are given in **Table 7.1** below.

- Surface runoff discharge into any stream course is prevented;
- Provision of sedimentation facilities after identification of wastewater discharges from site;
- Discharge or accidental spillage of chemical waste or oil directly from the site is avoided;
- Improper handling or storage of oil drum on site is avoided;
- The existing trees to be retained are protected; and
- Night-time lighting is controlled.

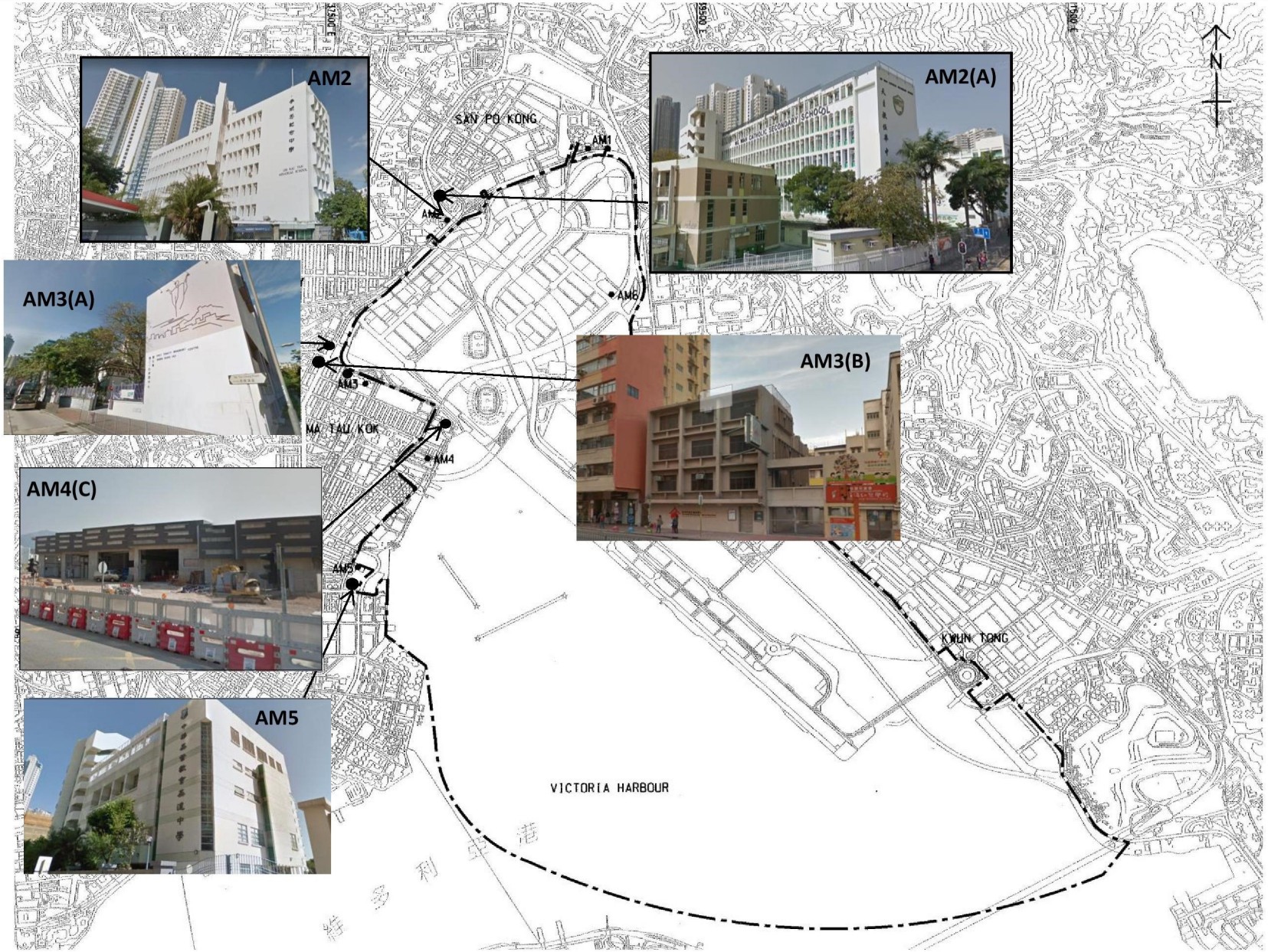
## Table 7.1 Examples of Mitigation Measures for Environmental Recommendations

| | |
|---|---|
|  |  |
| To prevent any surface runoff discharge into any stream course. | Follow-up measure(s) after identification of wastewater discharges from site. |
|  |  |
| To avoid any discharge or accidental spillage of chemical waste or oil directly from the site | To avoid improper handling or storage of oil drum on site |
|  |   |
| To protect the existing trees to be retained | To control of night-time lighting |

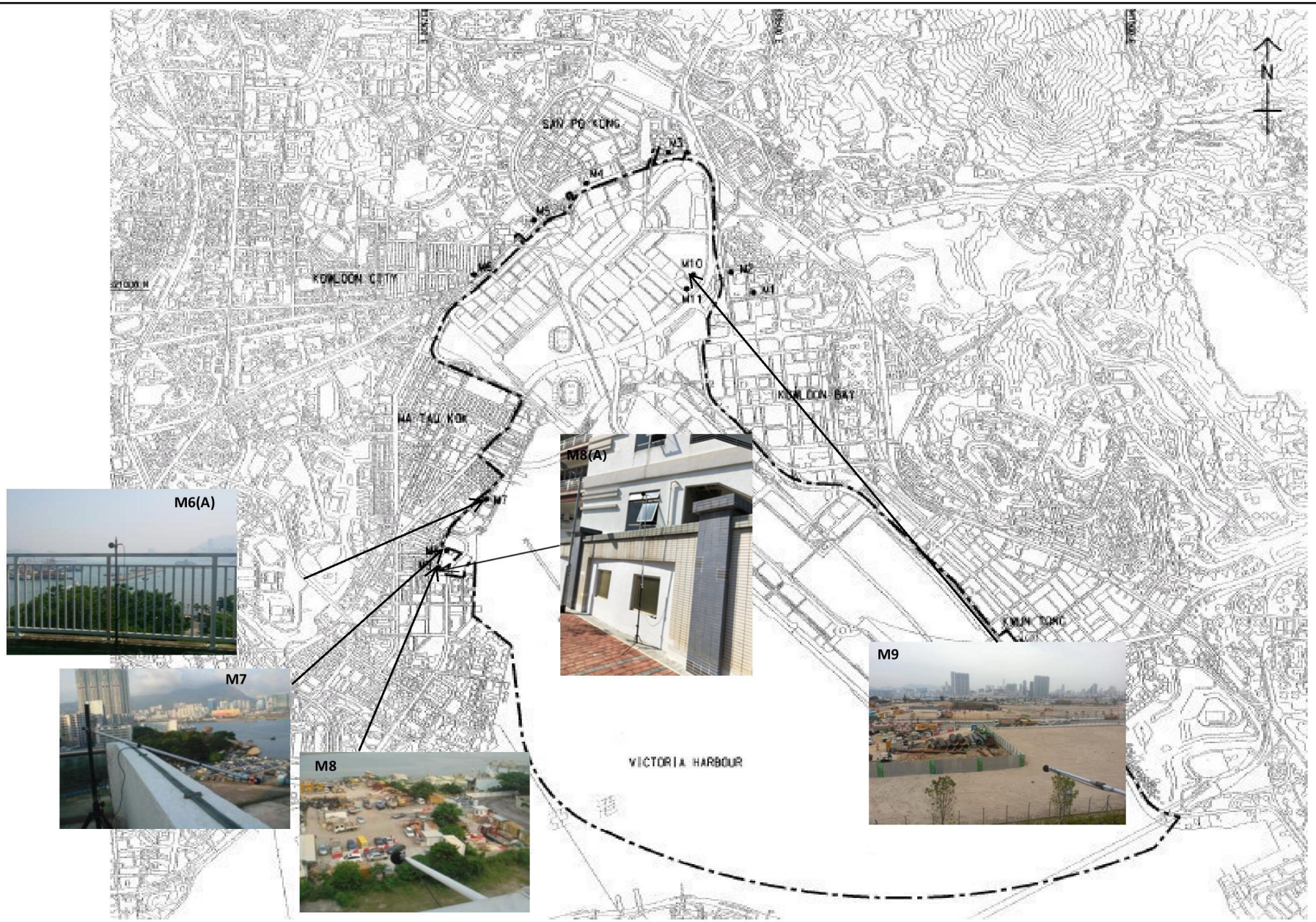
# FIGURES




| | | | | |
|---|---|---|---|---|
| Title | KL/2012/03 - Kai Tak Development –Stage 4 Infrastructure at Former North Apron Area | Scale N.T.S | Project No. MA13056 | WELLAB 匯力 consulting . testing . research |
| | Site Layout Plan | Date Sep-13 | Figure 1 | |




| | | | | |
|---|---|---|---|---|
| Title | Contract No. KL/2012/03<br>Kai Tak Development –Stage 4 Infrastructure at Former North Apron Area<br>Air Quality Monitoring Stations under this Project | Scale N.T.S | Project No. MA13056 | WELLAB 匯力 consulting . testing . research |
| | | Date Dec-17 | Figure 2 | |




| | | | |
|---|---|---|---|
| Title | Contract No. KL/2012/03<br>Kai Tak Development –Stage 4 Infrastructure at Former North Apron Area<br>Noise Monitoring Stations under this Project | Scale: N.T.S<br>Date: Dec-16 | Project No.: MA13056<br>Figure: 3 |

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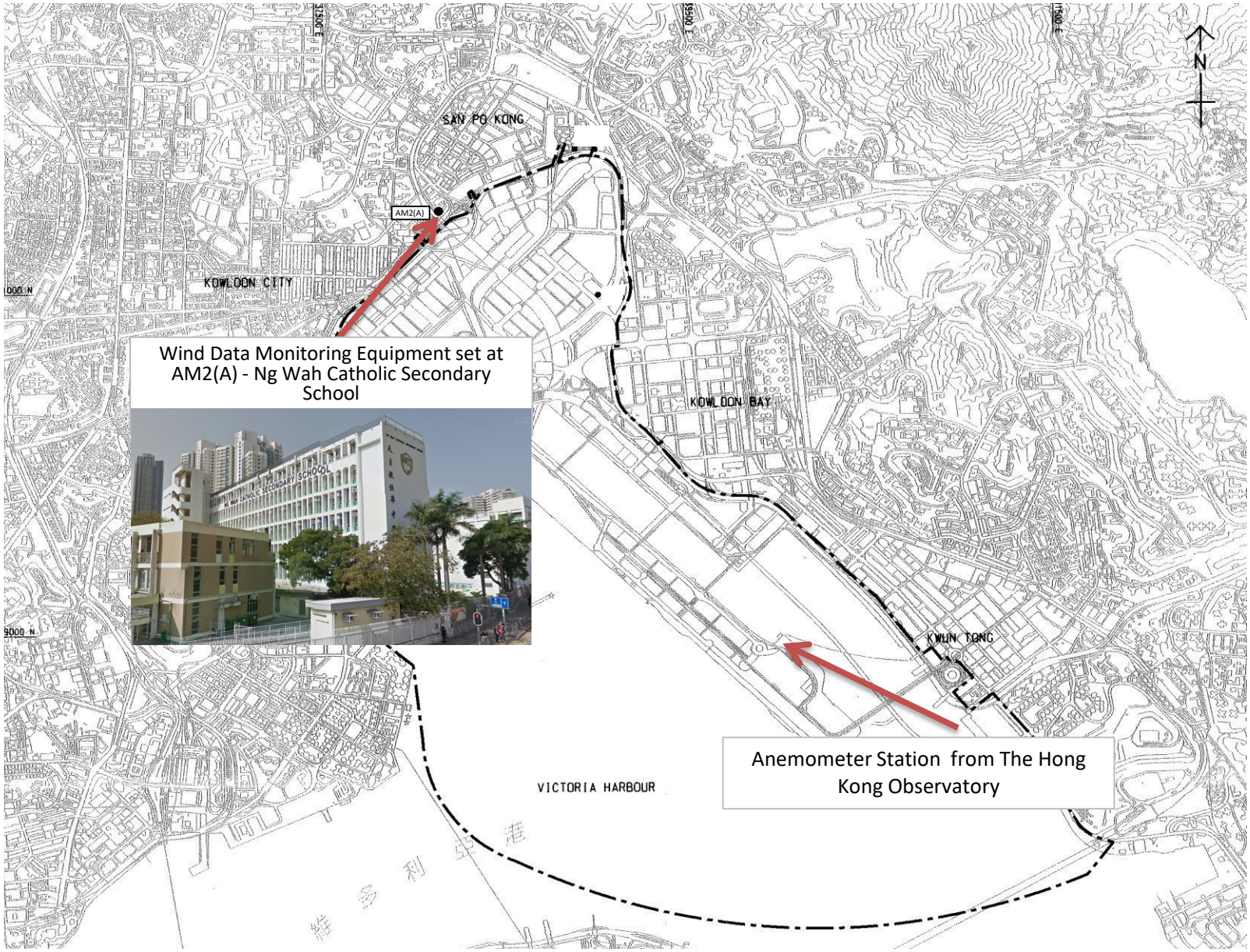


| | | | |
|---|---|---|---|
| Title | Contract No. KL/2012/03<br>Kai Tak Development –Stage 4 Infrastructure at Former North Apron Area | Scale: N.T.S | Project No.: MA13056 |
| | Location of Wind Data Monitoring Equipment | Date: Aug-17 | Figure: 4 |

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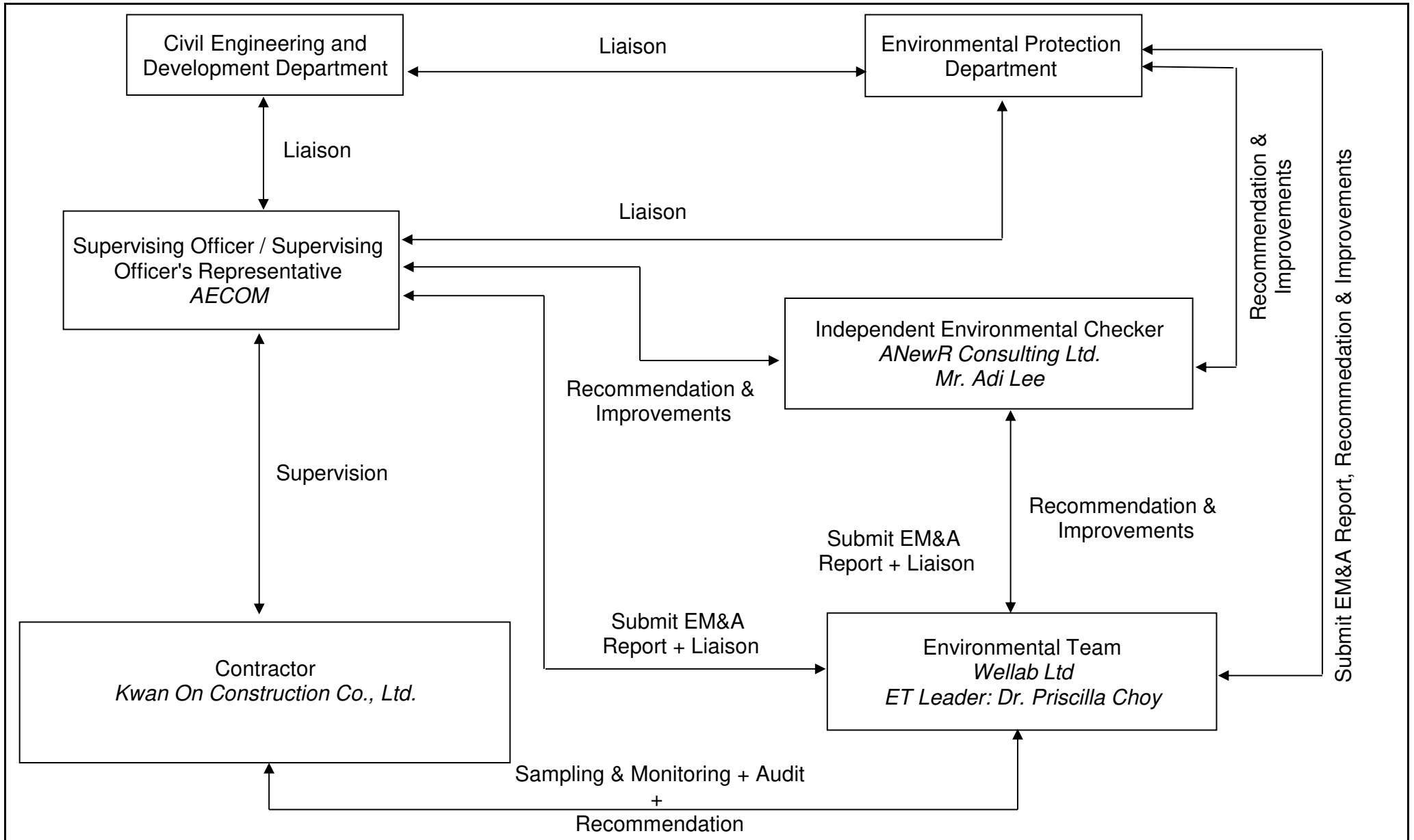


| | | | |
|---|---|---|---|
| Title: Contract No. KL/2012/03<br>Kai Tak Development –Stage 4 Infrastructure at Former North Apron Area<br>Management Structure | Scale: N.T.S<br>Date: JAN-2019 | Project No.: MA13056<br>Figure: 5 | WELLAB 匯力 consulting . testing . research |

# APPENDIX A
# ACTION AND LIMIT LEVELS

# Appendix A - Action and Limit Levels

**Table A-1 Action and Limit Levels for 1-Hour TSP**

| Location | Action Level, µg/m$^3$ | Limit Level, µg/m$^3$ |
|---|---|---|
| AM2 | 346 | 500 |
| AM3(A) | 351 | |
| AM4(C) | 371 | |
| AM5 | 345 | |

**Table A-2 Action and Limit Levels for 24-Hour TSP**

| Location | Action Level, µg/m$^3$ | Limit Level, µg/m$^3$ |
|---|---|---|
| AM2(A) | 157 | 260 |
| AM3(B) | 167 | |
| AM4(C) | 187 | |
| AM5 | 156 | |

**Table A-3 Action and Limit Levels for Construction Noise**

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

**APPENDIX B**
**SITE AUDIT SUMMARY**

**Weekly Site Inspection Record Summary**
**Inspection Information**

| | |
|---|---|
| Checklist Reference Number | 200403 |
| Date | 3 April 2020 |
| Time | 14:00 – 15:00 |

| Ref. No. | Non-Compliance | Related Item No. |
|---|---|---|
| - | None identified | - |
| **Ref. No.** | **Remarks/Observations** | **Related Item No.** |
| | ***B. Water Quality*** | |
| | • No environmental deficiency was identified during site inspection. | |
| | | |
| | ***C. Air Quality*** | |
| | • No environmental deficiency was identified during site inspection. | |
| | | |
| | ***D. Noise*** | |
| | • No environmental deficiency was identified during site inspection. | |
| | | |
| | ***E. Waste / Chemical Management*** | |
| | • No environmental deficiency was identified during site inspection. | |
| | | |
| | ***F. Visual and Landscape*** | |
| | • No environmental deficiency was identified during site inspection. | |
| | | |
| | ***G. Permits /Licences*** | |
| | • No environmental deficiency was identified during site inspection. | |
| | | |
| | ***H. Others*** | |
| | • Follow-up on previous audit session (Ref. No. 200327), no major environmental deficiency was observed during the site inspection. | |

| | Name | Signature | Date |
|---|---|---|---|
| Recorded by | Howard Chan | Howard | 6 April 2020 |
| Checked by | Dr. Priscilla Choy | | 6 April 2020 |

**Weekly Site Inspection Record Summary**
**Inspection Information**

| | |
|---|---|
| Checklist Reference Number | 200408 |
| Date | 8 April 2020 |
| Time | 10:00 – 11:00 |

| Ref. No. | Non-Compliance | Related Item No. |
|---|---|---|
| - | None identified | - |
| **Ref. No.** | **Remarks/Observations** | **Related Item No.** |
| | ***B. Water Quality*** | |
| 200408-R01 | • Ponding water should be avoided on site office. | B8 |
| | | |
| | ***C. Air Quality*** | |
| | • No environmental deficiency was identified during site inspection. | |
| | | |
| | ***D. Noise*** | |
| | • No environmental deficiency was identified during site inspection. | |
| | | |
| | ***E. Waste / Chemical Management*** | |
| | • No environmental deficiency was identified during site inspection. | |
| | | |
| | ***F. Visual and Landscape*** | |
| | • No environmental deficiency was identified during site inspection. | |
| | | |
| | ***G. Permits /Licences*** | |
| | • No environmental deficiency was identified during site inspection. | |
| | | |
| | ***H. Others*** | |
| | • Follow-up on previous audit session (Ref. No. 200403), no major environmental deficiency was observed during the site inspection. | |

| | Name | Signature | Date |
|---|---|---|---|
| Recorded by | Howard Chan | Howard | 8 April 2020 |
| Checked by | Dr. Priscilla Choy | | 8 April 2020 |

**Weekly Site Inspection Record Summary**
**Inspection Information**

| | |
|---|---|
| Checklist Reference Number | 200417 |
| Date | 17 April 2020 |
| Time | 14:00 – 15:00 |

| Ref. No. | Non-Compliance | Related Item No. |
|---|---|---|
| - | None identified | - |

| Ref. No. | Remarks/Observations | Related Item No. |
|---|---|---|
| | ***B. Water Quality*** | |
| | • No environmental deficiency was identified during site inspection. | |
| | | |
| | ***C. Air Quality*** | |
| | • No environmental deficiency was identified during site inspection. | |
| | | |
| | ***D. Noise*** | |
| | • No environmental deficiency was identified during site inspection. | |
| | | |
| | ***E. Waste / Chemical Management*** | |
| | • No environmental deficiency was identified during site inspection. | |
| | | |
| | ***F. Visual and Landscape*** | |
| | • No environmental deficiency was identified during site inspection. | |
| | | |
| | ***G. Permits /Licences*** | |
| | • No environmental deficiency was identified during site inspection. | |
| | | |
| | ***H. Others*** | |
| | • Follow-up on previous audit session (Ref. No. 200408), all environmental deficiency was rectified by the contractor. | |

| | Name | Signature | Date |
|---|---|---|---|
| Recorded by | Howard Chan | Howard | ***20*** April 2020 |
| Checked by | Dr. Priscilla Choy | | ***20*** April 2020 |

**Weekly Site Inspection Record Summary**
**Inspection Information**

| | |
|---|---|
| Checklist Reference Number | 200422 |
| Date | 22 April 2020 |
| Time | 11:00 – 12:00 |

| Ref. No. | Non-Compliance | Related Item No. |
|---|---|---|
| - | None identified | - |
| **Ref. No.** | **Remarks/Observations** | **Related Item No.** |
| | ***B. Water Quality*** | |
| | • No environmental deficiency was identified during site inspection. | |
| | | |
| | ***C. Air Quality*** | |
| | • No environmental deficiency was identified during site inspection. | |
| | | |
| | ***D. Noise*** | |
| | • No environmental deficiency was identified during site inspection. | |
| | | |
| | ***E. Waste / Chemical Management*** | |
| | • No environmental deficiency was identified during site inspection. | |
| | | |
| | ***F. Visual and Landscape*** | |
| | • No environmental deficiency was identified during site inspection. | |
| | | |
| | ***G. Permits /Licences*** | |
| | • No environmental deficiency was identified during site inspection. | |
| | | |
| | ***H. Others*** | |
| | • Follow-up on previous audit session (Ref. No. 200417), no major environmental deficiency was observed during site inspection. | |

| | Name | Signature | Date |
|---|---|---|---|
| Recorded by | Howard Chan | Howard | 23 April 2020 |
| Checked by | Dr. Priscilla Choy | | 23 April 2020 |

**Weekly Site Inspection Record Summary**
**Inspection Information**

| | |
|---|---|
| Checklist Reference Number | 200429 |
| Date | 29 April 2020 |
| Time | 15:00 – 16:00 |

| Ref. No. | Non-Compliance | Related Item No. |
|---|---|---|
| - | None identified | - |
| **Ref. No.** | **Remarks/Observations** | **Related Item No.** |
| | ***B. Water Quality*** | |
| | • No environmental deficiency was identified during site inspection. | |
| | | |
| | ***C. Air Quality*** | |
| | • No environmental deficiency was identified during site inspection. | |
| | | |
| | ***D. Noise*** | |
| | • No environmental deficiency was identified during site inspection. | |
| | | |
| | ***E. Waste / Chemical Management*** | |
| | • No environmental deficiency was identified during site inspection. | |
| | | |
| | ***F. Visual and Landscape*** | |
| | • No environmental deficiency was identified during site inspection. | |
| | | |
| | ***G. Permits /Licences*** | |
| | • No environmental deficiency was identified during site inspection. | |
| | | |
| | ***H. Others*** | |
| | • Follow-up on previous audit session (Ref. No. 200422), no major environmental deficiency was observed during the site inspection. | |

| | Name | Signature | Date |
|---|---|---|---|
| Recorded by | Howard Chan | Howard | 4 May 2020 |
| Checked by | Dr. Priscilla Choy | | 4 May 2020 |

**APPENDIX C**
**EVENT ACTION PLANS**

# Appendix C - Event Action Plans

Event/Action Plan for Air Quality

| EVENT | ACTION | | | |
|---|---|---|---|---|
| | ET | IEC | ER | CONTRACTOR |
| Action Level being exceeded by one sampling | 1. Identify source and investigate the causes of exceedance;<br>2. Inform Contactor, IEC and ER;<br>3. Repeat measurement to confirm finding. | 1. Check monitoring data submitted by ET;<br>2. Check Contractor's working method. | 1. Notify Contractor. | 1. Rectify any unacceptable practice;<br>2. Amend working methods if appropriate. |
| Action Level being exceeded by two or more consecutive sampling | 1. Identify source and investigate the causes of exceedance;<br>2. Inform Contractor, IEC and ER;<br>3. Increase monitoring frequency to daily;<br>4. Discuss with IEC and Contractor on remedial actions required;<br>5. Assess the effectiveness of Contractor's remedial actions;<br>6. If exceedance continues, arrange meeting with IEC and ER;<br>7. If exceedance stops, cease additional monitoring. | 1. Check monitoring data submitted by ET;<br>2. Check Contractor's working method;<br>3. Discuss with ET and Contractor on possible remedial measures;<br>4. Advise the ER on the effectiveness of the proposed remedial measures. | 1. Confirm receipt of notification of exceedance in writing;<br>2. Notify Contractor;<br>3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;<br>4. Supervise implementation of remedial measures;<br>5. Conduct meeting with ET and IEC if exceedance continues. | 1. Discuss with ET and IEC on proper remedial actions;<br>2. Submit proposals for remedial actions to ER and IEC within three working days of notification;<br>3. Implement the agreed proposals;<br>4. Amend proposal if appropriate. |
| Limit Level being exceeded by one sampling | 1. Identify source and investigate the causes of exceedance;<br>2. Inform Contractor, IEC, ER, and EPD;<br>3. Repeat measurement to confirm finding;<br>4. Assess effectiveness of Contractor's remedial actions and keep | 1. Check monitoring data submitted by ET;<br>2. Check Contractor's working method;<br>3. Discuss with ET and Contractor on possible remedial measures; | 1. Confirm receipt of notification of exceedance in writing;<br>2. Notify Contractor;<br>3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be | 1. Take immediate action to avoid further exceedance;<br>2. Discuss with ET and IEC on proper remedial actions;<br>3. Submit proposals for remedial actions to ER and IEC within three |

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

# Appendix C - Event Action Plans

Event/Action Plan for Construction Noise

| EVENT | ACTION | | | |
|---|---|---|---|---|
| | **ET** | **IEC** | **ER** | **CONTRACTOR** |
| Action Level being exceeded | 1. Notify ER, IEC and Contractor;<br>2. Carry out investigation;<br>3. Report the results of investigation to the IEC, ER and Contractor;<br>4. Discuss with the IEC and Contractor on remedial measures required;<br>5. Increase monitoring frequency to check mitigation effectiveness.<br>(The above actions should be taken within 2 working days after the exceedance is identified) | 1. Review the investigation results submitted by the ET;<br>2. Review the proposed remedial measures by the Contractor and advise the ER accordingly;<br>3. Advise the ER on the effectiveness of the proposed remedial measures.<br>(The above actions should be taken within 2 working days after the exceedance is identified) | 1. Confirm receipt of notification of failure in writing;<br>2. Notify Contractor;<br>3. In consolidation with the IEC, agree with the Contractor on the remedial measures to be implemented;<br>4. Supervise the implementation of remedial measures.<br>(The above actions should be taken within 2 working days after the exceedance is identified) | 1. Submit noise mitigation proposals to IEC and ER;<br>2. Implement noise mitigation proposals.<br>(The above actions should be taken within 2 working days after the exceedance is identified) |
| Limit Level being exceeded | 1. Inform IEC, ER, Contractor and EPD;<br>2. Repeat measurements to confirm findings;<br>3. Increase monitoring frequency;<br>4. Identify source and investigate the cause of exceedance; | 1. Discuss amongst ER, ET, and Contractor on the potential remedial actions;<br>2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly. | 1. Confirm receipt of notification of failure in writing;<br>2. Notify Contractor;<br>3. In consolidation with the IEC, agree with the Contractor on the remedial | 1. Take immediate action to avoid further exceedance;<br>2. Submit proposals for remedial actions to IEC and ER within 3 working days of notification;<br>3. Implement the agreed proposals; |

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

# Appendix C - 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.<br>2. Recommend remedial design if necessary | 1. Undertake remedial design if necessary | |
| Non-conformity on one occasion | 1. Identify Source<br>2. Inform IEC and ER<br>3. Discuss remedial actions with IEC, ER and Contractor<br>4. Monitor remedial actions until rectification has been completed | 1. Check report<br>2. Check Contractor's working method<br>3. Discuss with ET and Contractor on possible remedial measures<br>4. Advise ER on effectiveness of proposed remedial measures.<br>5. Check implementation of remedial measures. | 1. Notify Contractor<br>2. Ensure remedial measures are properly implemented | 1. Amend working methods<br>2. Rectify damage and undertake any necessary replacement |
| Repeated Non-conformity | 1. Identify Source<br>Inform IEC and | 1. Check monitoring report | 1. Notify Contractor<br>2. Ensure remedial measures are properly | 1. Amend working methods<br>2. Rectify damage and |

| | | | | |
|---|---|---|---|---|
| | ER<br>2. Increase monitoring frequency<br>3. Discuss remedial actions with IEC, ER and Contractor<br>4. Monitor remedial actions until rectification has been completed<br>5. If non-conformity stops, cease additional monitoring | 2. Check Contractor's working method<br>3. Discuss with ET and Contractor on possible remedial measures<br>4. Advise ER on effectiveness of proposed remedial measures<br>5. Supervise implementation of remedial measures. | implemented | undertake any necessary replacement |

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

**Appendix D - Summary of Implementation Schedule of Mitigation Measures for Construction Phase**

| Types of Impacts | Mitigation Measures | Status |
|---|---|---|
| **Construction Dust** | 8 times daily watering of the work site with active dust emitting activities. | ^ |
| | 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. | |
| | • Stockpiling site(s) should be lined with impermeable sheeting and bunded. Stockpiles should be fully covered by impermeable sheeting to reduce dust emission. | ^ |
| | • 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. | ^ |
| | • 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. | ^ |
| | • 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. | ^ |
| | • 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. On-site unpaved roads should be compacted and kept free of lose materials. | ^ |
| | • Vehicle washing facilities should be provided at every vehicle exit point. | ^ |
| | • 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. | ^ |
| | • 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. | ^ |
| | • 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. | ^ |
| | • Every vehicle should be washed to remove any dusty materials from its body and wheels before leaving the construction sites. | ^ |

| | | |
|---|---|---|
| **Construction Noise** | 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 | ^ |
| | Good Site Practice:<br>• Only well-maintained plant should be operated on-site and plant should be serviced regularly during the construction program. | ^ |
| | • Silencers or mufflers on construction equipment should be utilized and should be properly maintained during the construction program. | N/A(1) |
| | • Mobile plant, if any, should be sited as far away from NSRs as possible. | ^ |
| | • 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. | ^ |
| | • 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. | ^ |
| | • Material stockpiles and other structures should be effectively utilized, wherever practicable, in screening noise from on-site construction activities. | ^ |
| | Scheduling of Construction Works during School Examination Period | ^ |
| | (i) Provision of low noise surfacing in a section of Road L2; and | N/A |
| | (ii) Provision of structural fins | N/A |
| | (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 |
| | (i) Provision of low noise surfacing in a section of Road L4 before occupation of Site 1I1; and | N/A |
| | (ii) Setback of building about 5m from site boundary. | N/A |
| | Setback of building about 35m to the northwest direction at 1L3 and 5m at Site 1L2. | N/A |
| | (i) avoid any sensitive façades with openable window facing the existing Kowloon City Road network; and | N/A |
| | (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 |

| | | |
|---|---|---|
| | (i) avoid any sensitive facades with openable window facing the existing To Kwa Wan Road or<br>(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.<br>(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 | N/A<br>N/A<br>N/A |
| | All the ventilation fans installed in the below will be provided with silencers or acoustics treatment.<br>(i) SPS<br>(ii) ESS<br>(iii) Tunnel Ventilation Shaft<br>(iv) EFTS depot<br><br>Installation of retractable roof or other equivalent measures | N/A<br>N/A<br>N/A<br>N/A<br>N/A |
| **Construction Water Quality** | The following mitigation measures are proposed to be incorporated in the design of the SPS at KTD, including:<br>• Dual power supply or emergency generator should be provided at all the SPSs to secure electrical power supply;<br>• Standby pumps should be provided at all SPSs to ensure smooth operation of the SPS during maintenance of the duty pumps;<br>• An alarm should be installed to signal emergency high water level in the wet well at all SPSs; and<br>• 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.<br><br><u>Land-based Construction</u><br><br>*Construction Runoff*<br><br>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:<br>• use of sediment traps<br>• adequate maintenance of drainage systems to prevent flooding and overflow | N/A<br>N/A<br>N/A<br>N/A<br>^<br>^<br>^ |

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|---|---|---|
| | 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. | ^ |
| | 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. | ^ |
| | Sediment tanks of sufficient capacity, constructed from pre-formed individual cells of approximately 6 to 8 $m^3$ 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. | N/A |
| | Open stockpiles of construction materials (for examples, aggregates, sand and fill material) of more than 50 $m^3$ should be covered with tarpaulin or similar fabric during rainstorms. Measures should be taken to prevent the washing away of construction materials, soil, silt or debris into any drainage system. | ^ |
| | Manholes (including newly constructed ones) should always be adequately covered and temporarily sealed so as to prevent silt, construction materials or debris being washed into the drainage system and storm runoff being directed into foul sewers. | ^ |
| | 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 summarised in Appendix A2 of ProPECC PN 1/94. Particular attention should be paid to the control of silty surface runoff during storm events. | ^ |
| | 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 |

| | | |
|---|---|---|
| | 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. | ^ |
| | *Drainage* | |
| | 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. | ^ |
| | 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. | ^ |
| | 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. | ^ |
| | *Sewage Effluent* | |
| | 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. | ^ |
| | *Stormwater Discharges* | |
| | Minimum distances of 100 m should be maintained between the existing or planned stormwater discharges and the existing or planned seawater intakes | N/A |

| | | |
|---|---|---|
| | *Debris and Litter* | |
| | 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 | ^ |
| | *Construction Works at or in Close Proximity of Storm Culvert or Seafront* | |
| | The proposed works should preferably be carried out within the dry season where the flow in the drainage channel /storm culvert/ nullah is low. | ^ |
| | 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. | ^ |
| | 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. | ^ |
| | Stockpiling of construction materials and dusty materials should be covered and located away from any water courses. | ^ |
| | Construction debris and spoil should be covered up and/or disposed of as soon as possible to avoid being washed into the nearby water receivers. | ^ |
| | Construction activities, which generate large amount of wastewater, should be carried out in a distance away from the waterfront, where practicable. | ^ |
| | 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. | ^ |
| | Construction effluent, site run-off and sewage should be properly collected and/or treated. | * |
| | 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. | ^ |
| | 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 |
| | Proper shoring may need to be erected in order to prevent soil/mud from slipping into the storm culvert/drainage channel/sea. | ^ |

| | | |
|---|---|---|
| | Supervisory staff should be assigned to station on site to closely supervise and monitor the works<br><br>Marine water quality monitoring and audit programme shall be implemented for the proposed sediment treatment operation. | ^<br><br>N/A |
| **Construction Waste Management** | Good Site Practices<br>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 construction activities include:<br>• Nomination of an approved person, such as a site manager, to be responsible for good site practices, arrangements for collection and effective disposal to an appropriate facility, of all wastes generated at the site<br>• Training of site personnel in proper waste management and chemical waste handling procedures<br>• Provision of sufficient waste disposal points and regular collection for disposal<br>• Appropriate measures to minimise windblown litter and dust during transportation of waste by either covering trucks or by transporting wastes in enclosed containers<br>• A recording system for the amount of wastes generated, recycled and disposed of (including the disposal sites)<br><br>Waste Reduction Measures<br>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:<br>• Sort C&D waste from demolition of the remaining structures to recover recyclable portions such as metals<br>• 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<br>• 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<br>• Any unused chemicals or those with remaining functional capacity should be recycled<br>• Proper storage and site practices to minimise the potential for damage or contamination of construction materials | ^<br><br>^<br><br>^<br><br>^<br><br>^<br><br>^<br><br>^<br><br>^<br><br>^ |

| | | |
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| | Construction and Demolition Material<br><br>Mitigation measures and good site practices should be incorporated into contract document to control potential environmental impact from handling and transportation of C&D material. The mitigation measures include:<br>• Where it is unavoidable to have transient stockpiles of C&D material within the Project work site pending collection for disposal, the transient stockpiles should be located away from waterfront or storm drains as far as possible<br>• Open stockpiles of construction materials or construction wastes on-site should be covered with tarpaulin or similar fabric<br>• Skip hoist for material transport should be totally enclosed by impervious sheeting<br>• Every vehicle should be washed to remove any dusty materials from its body and wheels before leaving a construction site<br>• 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<br>• 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<br>• All dusty materials should be sprayed with water prior to any loading, unloading or transfer operation so as to maintain the dusty materials wet<br>• The height from which excavated materials are dropped should be controlled to a minimum practical height to limit fugitive dust generation from unloading<br><br>When delivering inert C&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&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.<br><br>Chemical Waste<br><br>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 *Waste Disposal (Chemical Waste) (General) Regulation* | ^<br>^<br>^<br>^<br>^<br>^<br>^<br>^<br><br>N/A |

| | | |
|---|---|---|
| | General Refuse<br><br>General refuse should be stored in enclosed bins or compaction units separate from C&D material. A licensed waste collector should be employed by the contractor to remove general refuse from the site, separately from C&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 | ^ |
| **Landscape and Visual** | CM1 All existing trees should be carefully protected during construction.<br><br>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.<br><br>CM3 Control of night-time lighting.<br><br>CM4 Erection of decorative screen hoarding. | ^<br><br>N/A<br><br>^<br><br>^ |

| | |
|---|---|
| Remarks: | ^ Compliance of mitigation measure; |
| | X Non-compliance of mitigation measure; |
| | N/A Not Applicable at this stage;<br>N/A(1) Not observed; |
| | • Non-compliance but rectified by the contractor; |
| | * Recommendation was made during site audit but improved/rectified by the contractor. |
| | # Recommendation was made during site audit and to be improved / rectified by the contractor. |

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

**Contract No. KL/2012/03**

# Kai Tak Development –Stage 4 Infrastructure at Former North Apron Area

## Appendix E – Summary of environmental complaint, warning, summon and notification of successful prosecution

**Reporting Month**: April 2020

**Warnings / Summons and Successful Prosecutions received in the reporting month**

| Log Ref. | Received Date | Details of Warning / Summons and Successful Prosecutions | Investigation/Mitigation Action | Status |
|---|---|---|---|---|
| N/A | N/A | N/A | N/A | N/A |

**Remarks**: No warning/summon and prosecution were received in the reporting period.

**Complaint Log**

| EPD Complaint Ref No. | Date of Complaint | Complaint Details | Investigation / Mitigation Action | Status |
|---|---|---|---|---|
| N/A | N/A | N/A | N/A | N/A |

**APPENDIX F**
**WASTE GENERATED QUANTITY**

APPENDIX IV

**Monthly Summary Waste Flow Table**

(PS Clause 1.86)

Name of Department: CEDD

Contract No. : KL/2012/03

Monthly Summary Waste Flow Table for March 2020 (year) (in tons)

| Month | Total Disposal Loads | Total Quantity Generated | Actual Quantities of Inert C&D Materials Generated Monthly | | | | | Actual Quantities of C&D Wastes Generated Monthly | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Hard Rock & 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) | Chemicals Waste | Others, e.g. general refuse |
| | (No.s) | (in tons) | 0 | (in tons) | (in tons) | (in tons) | (in tons) | (in tons) | (in tons) | (in tons) | (in tons) | (in tons) |
| 2013 (Oct - Dec) Sub-Total | 108 | 463.69 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 463.69 |
| 2014 (Jan – Dec) Sub-Total | 24 | 16925.7 | 0 | 0 | 16798.93 | 83.66 | 1804.27 | 0 | 0 | 0 | 0 | 43.11 |
| 2015 (Jan – Dec) Sub-Total | 284 | 81859.97 | 0 | 0 | 38291.91 | 43457.21 | 19920 | 0 | 0 | 0 | 0 | 310.26 |
| 2016 (Jan – Dec) Sub-Total | 3369 | 50762.64 | 0 | 0 | 0 | 49894.67 | 4020 | 0 | 0 | 0 | 0 | 867.95 |
| 2017 (Jan – Dec) Sub-Total | 2737 | 39615.16 | 0 | 0 | 0 | 38996.26 | 0 | 0 | 0 | 0 | 0 | 603.11 |
| 2018 (Jan – Dec) Sub-Total | 566 | 7483.57 | 0 | 0 | 0 | 6803.57 | 0 | 0 | 0 | 0 | 0 | 680 |
| 2019 (Jan – Dec) Sub-Total | 88 | 396.28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 396.28 |
| Jan-20 | 2 | 6.85 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6.85 |
| Feb-20 | 2 | 5.45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5.45 |
| Mar-20 | 2 | 7.83 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7.83 |
| Apr-20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| May-20 | | | | | | | | | | | | |
| Jun-20 | | | | | | | | | | | | |
| Total | 7182 | 197527.14 | 0 | 0 | 55090.84 | 139235.37 | 25744.27 | 0 | 0 | 0 | 0 | 3384.53 |

# APPENDIX G
# CONSTRUCTION PROGRAMME

| | | 2020 | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Apr | | | | May | | | | June | | | | July | | | |
| | | 7 | 14 | 21 | 30 | 7 | 14 | 21 | 31 | 7 | 14 | 21 | 30 | 7 | 14 | 21 | 31 |
| 1 | Sung Wong Tai Road | | | | | | | | | | | | | | | | |
| | Plumbing and Drainage | | | | | | | | | | | | | | | | |
| | Base course | | | | | | | | | | | | | | | | |
| | Asphalt laying | | | | | | | | | | | | | | | | |
| | Road Marking | | | | | | | | | | | | | | | | |
| | Planting | | | | | | | | | | | | | | | | |
| | Resurfacing | | | | | | | | | | | | | | | | |
| | Temp. Traffic Arrangement | | | | | | | | | | | | | | | | |
| | Scraping and asphalt laying | | | | | | | | | | | | | | | | |
| 2 | Pump Station NPS and PS2 | | | | | | | | | | | | | | | | |
| | NPS : FSI | | | | | | | | | | | | | | | | |
| | Scada system test | | | | | | | | | | | | | | | | |
| | Three days test | | | | | | | | | | | | | | | | |
| | Recycle wood installation | | | | | | | | | | | | | | | | |
| | Painting | | | | | | | | | | | | | | | | |
| | Window Glass installation | | | | | | | | | | | | | | | | |
| | External lighting & CCTV | | | | | | | | | | | | | | | | |
| | Planting | | | | | | | | | | | | | | | | |
| | Made good defects | | | | | | | | | | | | | | | | |
| | Installing steel platforms | | | | | | | | | | | | | | | | |
| 3 | PS2 : FSI | | | | | | | | | | | | | | | | |
| | Scada system test | | | | | | | | | | | | | | | | |
| | Benching | | | | | | | | | | | | | | | | |
| | Three days test | | | | | | | | | | | | | | | | |
| | Fall arrest system | | | | | | | | | | | | | | | | |
| | Cladding | | | | | | | | | | | | | | | | |
| | Painting cladding | | | | | | | | | | | | | | | | |
| | Fence wall | | | | | | | | | | | | | | | | |
| | External lighting & CCTV | | | | | | | | | | | | | | | | |
| | Planting | | | | | | | | | | | | | | | | |
| | Installing steel platforms | | | | | | | | | | | | | | | | |
| 4 | Landscaping (Patch up) | | | | | | | | | | | | | | | | |
| 5 | Road L6 footpath | | | | | | | | | | | | | | | | |