



**Proposed Road Improvement Works in
West Kowloon Reclamation Development – Phase 1
Quarterly Environmental Monitoring & Audit Report
01/11/2017 – 31/1/2018**



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TABLE OF CONTENT

Executive Summary	2
1 Introduction	3
1.1 The Project.....	3
1.2 Construction Programme and Activities	4
1.3 Project Organization	5
2 EM&A Requirements for Monitoring Parameters	5
3 Air Quality Monitoring.....	6
3.1 Monitoring Locations.....	6
3.2 Monitoring Results	7
3.3 Baseline Review	9
4 Noise Monitoring	10
4.1 Monitoring Locations.....	10
4.2 Monitoring Results	10
5 Solid and Liquid Waste Management Status.....	14
6 Landscape and Visual Impact	15
7 Environmental Site Inspection	15
8 Environmental Non-Conformance	16
8.1 Summary of Environmental Exceedances	16
8.2 Summary of Environmental Non-Compliance	16
8.3 Summary of Environmental Complaint.....	16
8.4 Summary of Notification of Summons and Successful Prosecution	16
9 Comment, Recommendations and Conclusions	17
9.1 Comment	17
9.2 Recommendations	17
9.3 Conclusions	19

LIST OF APPENDICES

Appendix A: Construction Programme and Project Layout Plan

Appendix B: Project Organization Chart

Appendix C: Monitoring Locations

Appendix D: TSP Monitoring Data

Appendix E: Noise Monitoring Data

Appendix F: Environmental Mitigation Implementation Schedule

Appendix G: Cumulative Log for Environmental Exceedance, Complaints, Notification of
Summons and Successful Prosecutions

Executive Summary

This is the quarterly Environmental Monitoring and Audit (EM&A) Report for Proposed Road Improvement Works in West Kowloon Reclamation Development – Phase 1. The project was commenced on 6 February 2016. This report documents the finding of EM&A Works conducted from 1 November 2017 to 31 January 2018.

Environmental Monitoring and Audit Progress

Air Quality Monitoring

Noise Monitoring

Waste Management

Landscape and Visual Impact

Environmental Site Inspection

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

No exceedance of action level and limit level was recorded for TSP. Sixteen exceedances were recorded at NM4 for noise. No non-compliance environmental complaint, notification of summons and successful prosecution against the Project were received in this reporting period.

Variation in Construction Method

No variation in construction method from the proposed construction programme was made and affected the EM&A.

1 Introduction

1.1 The Project

This is a road improvement project in West Kowloon Reclamation Development (WKRD) for completing the developments and the commissioning of the new transport facilities.

Apart from the additional traffic impacts arising from the major development and transport facilities in WKRD, several major junctions in the area are currently operating with insufficient capacity causing serious congestion to some existing major road corridors such as Jordan Road (JRD), Ferry Street (FST) and Canton Road (CRD).

To enhance the road network of the area, Transport Department commissioned the “West Kowloon Reclamation Development Traffic Study” which identified and recommended Core and Additional Schemes together with the improvement works at the junction of CRD/FST/JRD. Implementation of these schemes would enable most of the key road junctions in the study area to operate with spare capacity, and the traffic queue length would also be reduced avoiding blockage to the upstream junctions

The Environmental Team (ET), Environmental Pioneers & Solutions Limited (EPSL), was appointed by Vibro Construction Co. Ltd. to undertake the Environmental Monitoring and Audit (EM&A) programme during construction phase of the Proposed Road Improvement Works in West Kowloon Reclamation Development – Phase 1. The project proponent is Highways Department. This is a Designated Project under the Environmental Impact Assessment Ordinance (Cap.499). The No. of Environment Permit is EP-455/2013.

The construction works and EM&A programme of this project was commenced on 6 February 2016. The construction programme and project layout plan are shown in **Appendix A**.

1.2 Construction Programme and Activities

A summary of the major construction activities undertaken in this reporting period is shown as follows.

Nov 2017

- Portion I – Pile Cap, Pier and Bridge Deck Construction Works
- Portion HA – Underground Investigation Works
- Portion HA – Utilities Diversion Works
- Portion HA – Piling Works
- Portion HA – Pile Cap, Pier and Bridge Deck Construction Works
- Portion J – Site Formation and Road Works
- Portion J – Street Furniture Installation
- Portion Q – Road Works (excavation and utilities diversion)
- Portion Q – Construction of Sign Gantry

Dec 2017

- Portion I – Pile Cap, Pier and Bridge Deck Construction Works
- Portion HA – Pile Cap, Pier and Bridge Deck Construction Works
- Portion J – Street Furniture Installation
- Portion Q – Road Works (excavation and utilities diversion)

Jan 2018

- Portion I – Pile Cap, Pier and Bridge Deck Construction Works
- Portion HA – Pile Cap, Pier and Bridge Deck Construction Works
- Portion J – Street Furniture Installation
- Portion Q – Road Works (excavation and utilities diversion)

1.3 Project Organization

The project organization chart and contact details are shown in **Appendix B**.

2 EM&A Requirements for Monitoring Parameters

Air Quality Monitoring

According to the EM&A Manual Section 3.2 & 3.4, the construction air quality impact shall be evaluated by conducting 1-hr and 24-hr Total Suspended Particulates measurements. 1-hr TSP sampling shall be conducted at a frequency of at least 3 times in every 6 days. 24-hr TSP sampling shall be conducted at a frequency of at least once in every 6 days. The wind speed and wind direction shall be recorded in accordance with the EM&A Manual Section 3.4.3.

Noise Monitoring

According to the EM&A Manual Section 4.2 & 4.4, construction noise level shall be measured in terms of the A-weight equivalent continuous sound pressure level (Leq). Leq 30min shall be used as the monitoring parameter for the time period between 0700 and 1900 hours on normal weekdays. One set of 30-min measurement shall be carried out at each monitoring location every week.

Waste Management

According to the EM&A Manual Section 6.2, relevant licences/ permits shall be applied for waste disposal and handling. Waste disposal record/ recycling receipts shall be kept for tracking of waste movement.

Landscape and Visual

According to the EM&A Manual Section 7.2, inspection and audit for the implementation of mitigation measures shall be conducted once every two weeks by the Registered Landscape Architect. The adequacy of tree preservation, status of tree planting and removal shall also be monitored.

3 Air Quality Monitoring

3.1 Monitoring Locations

According to the EM&A Manual Section 3.5, four impact monitoring locations have been established for air quality monitoring, which are summarized in Table 3.1.1. The details of monitoring location plan are shown in **Appendix C**.

Table 3.1.1 Air Quality Monitoring Locations

ID No.	Monitoring Location	Description	Parameter
AM1	Marine Department New Yau Ma Tei Public Cargo Working Area Administrative Building	Ground Floor Face to Hoi Po Road	1-hr TSP
AM2	Garden Building	Ground Floor Face to Canton Road	1-hr TSP
AM3	The Cullinan I	Ground Floor Face to Nga Cheung Road	1-hr TSP
AM4	Lai Chack Middle School	Ground Floor Face to Canton Road	1-hr TSP
AM1	Marine Department New Yau Ma Tei Public Cargo Working Area Administrative Building	Rooftop Face to Hoi Po Road	24-hr TSP
AM2	Garden Building	Ground Floor Face to Canton Road	24-hr TSP
AM3-B	The Cullinan II (W Hong Kong)	Ground Floor Near to International Commerce Centre Roundabout on Nga Cheung Road and	24-hr TSP
AM4-A	Tsim Sha Tsui Fire Station	Ground Floor Face to Canton Road	24-hr TSP

Due to the rejection from the representatives/ property management of the premises, high volume samplers are not feasible to be installed at AM3 and AM4 for the 24-hr TSP monitoring. Alternative locations AM3-B and AM4-A are proposed accordingly. The

monitoring locations are summarized in [Table 2.1.2](#). The details of monitoring location plan are shown in [Appendix C](#).

Alternative monitoring location AM4-A is adjacent to the construction site of Xiqu Centre. Power supply for AM4-A was temporarily provided by the Main Contractor of Xiqu Centre, Hip Hing Engineering Co. Ltd.. Due to the outside surface works and drainage works of Xiqu Centre, the power distribution box under Hip Hing Engineering Co. Ltd. was relocated. The power supply to AM4-A has been cut off from early August 2017. 24hr-TSP monitoring at AM4-A was ceased from August 2017. The Contractor and ET are keeping in search of another alternative location to install the HVS and the power supply for AM4-A. On the other hand, major road works (excavation and utilities diversion) are approximately to be completed in Portion Q (close to AM4-A). The Contractor will review the construction works with ET and ER to deliberate on the possibility of suspending 24-hr TSP monitoring at AM4/AM4-A.

3.2 Monitoring Results

1-hr TSP monitoring was conducted at four monitoring locations. The monitoring results are summarized in Table 3.2.1. 24-hr TSP monitoring was conducted at three monitoring locations. The monitoring results are summarized in Table 3.2.2. Detailed impact monitoring data of 1-hr TSP, 24-hr TSP and meteorological data are shown in [Appendix D](#).

Table 3.2.1 Summary of average 1-hr TSP monitoring data

Month	Monitoring Locations	Average 1-hr TSP ($\mu\text{g}/\text{m}^3$)	Range 1-hr TSP ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
Nov 17	AM1	87	51 – 143	288	500
	AM2	78	50 – 105	299	500
	AM3	70	41 – 146	299	500
	AM4	75	48 – 107	303	500
Dec 17	AM1	115	44 – 183	288	500
	AM2	80	39 – 111	299	500
	AM3	105	47 – 171	299	500
	AM4	71	53 – 101	303	500
Jan 18	AM1	63	23 – 153	288	500
	AM2	87	57 – 131	299	500

	AM3	60	23 – 156	299	500
	AM4	82	65 – 111	303	500

Table 3.2.2 Summary of average 24-hr TSP monitoring data

	Monitoring Locations	Average 24-hr TSP ($\mu\text{g}/\text{m}^3$)	Range 24-hr TSP ($\mu\text{g}/\text{m}^3$)	Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)
Nov 17	AM1	78	31 – 114	157	260
	AM2	83	49 – 105	183	260
	AM3-B	86	43 – 126	177	260
	AM4-A	-	-	176	260
Dec 17	AM1	86	53 – 132	157	260
	AM2	69	51 – 81	183	260
	AM3-B	105	81 – 139	177	260
	AM4-A	-	-	176	260
Jan 18	AM1	75	55 – 99	157	260
	AM2	68	47 – 96	183	260
	AM3-B	75	46 – 113	177	260
	AM4-A	-	-	176	260

In accordance with the established action and limited levels for impact monitoring, there was no exceedance recorded in the reporting period.

During the monitoring period, vehicle emissions were identified as one of the dust sources for AM1, AM2, AM3, AM4, AM3-B. TSP level of AM2, AM4 may be affected by construction activities from other construction sites near Canton Road.

3.3 Baseline Review

The comparisons of baseline result, measured result and action and limit levels of 1-hr TSP monitoring and 24-hr TSP monitoring are shown in Table 3.3.1 and Table 3.3.2 for reviewing the baseline data.

Table 3.3.1 Comparisons of Baseline, Impact and Action & Limit Levels of 1-hr TSP

Location	Baseline Level ($\mu\text{g}/\text{m}^3$)	Established Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)	Average Impact Monitoring Level (reporting Quarter) ($\mu\text{g}/\text{m}^3$)
AM1	58	288	500	88
AM2	76	299	500	81
AM3	76	299	500	78
AM4	82	303	500	76

Table 3.3.2 Comparisons of Baseline, Impact and Action & Limit Levels of 24-hr TSP

Location	Baseline Level ($\mu\text{g}/\text{m}^3$)	Established Action Level ($\mu\text{g}/\text{m}^3$)	Limit Level ($\mu\text{g}/\text{m}^3$)	Average Impact Monitoring Level (reporting Quarter) ($\mu\text{g}/\text{m}^3$)
AM1	42	157	260	80
AM2	81	183	260	74
AM3-B	72	177	260	89
AM4-A	70	176	260	-

The impact monitoring levels of 1-hr TSP and 24-hr TSP obtained from Nov 2017 to Jan 2018 were much lower than the action levels established by baseline monitoring data for AM1, AM2, AM3/AM3-B and AM4/AM4-A. The impact monitoring results presented that no dust impacts obviously caused by the construction site and affected by the background environmental conditions. The baseline results are still applicable and valid. Need not to repeat the measurement of baseline monitoring, unless the exceedance of action level of TSP is recorded.

4 Noise Monitoring

4.1 Monitoring Locations

According to the EM&A Manual Section 4.5, five impact monitoring locations have been established for noise impact monitoring during the construction phase of the project, which are summarized in Table 4.1.1. The details of monitoring location plan are shown in **Appendix C**.

Table 4.1.1 Noise Monitoring Locations

Identification No.	Noise Monitoring Location	Description	Measurement Type
NM1	Sorrento - Tower 1	Podium Level Face to Nga Cheung Road	Façade
NM2	Yau Ma Ti Catholic Primary School (Hoi Wang Road)	Ground Floor Face to Hoi Ting Road	Façade
NM3	The Cullinan I	Ground Floor Face to Nga Cheung Road	Façade
NM4	Lai Chack Middle School	Ground Floor Face to Canton Road	Façade
NM5	Yue Tak Building	Ground Floor Face to Jordan Road	Façade

4.2 Monitoring Results

Noise impact monitoring was conducted at five monitoring locations. The monitoring results are summarized in Table 4.2.1. Detailed impact monitoring data of noise are shown in **Appendix E**.

Table 4.2.1 Summary of average noise monitoring data

Monitoring Locations	Monitoring Date	Baseline Level (dB(A))	L_{Aeq}^{*1} (dB(A))	Action Level (dB(A))	Limit Level (dB(A))	Exceedance
NM1	1/11/2017	75.1	62.9	When one documented complaint is received	75 dB(A)	No
	7/11/2017		63.8			No
	13/11/2017		63.5			No
	18/11/2017		66.2			No
	24/11/2017		62.7			No
	30/11/2017		67.4			No
	6/12/2017		61.8			No
	12/12/2017		63.8			No
	18/12/2017		66.9			No
	23/12/2017		64.1			No
	29/12/2017		66.4			No
	4/1/2018		65.6			No
	10/1/2018		61.2			No
	16/1/2018		62.1			No
	22/1/2018		63.2			No
	27/1/2018		65.7			No
NM2	1/11/2017	66.5	65.8	When one documented complaint is received	70 dB(A) ^{*2}	No
	7/11/2017		64.1		65 dB(A) ^{*3}	No
	13/11/2017		66.5		70 dB(A) ^{*2}	No
	18/11/2017		66.9		70 dB(A) ^{*2}	No
	24/11/2017		68.1		70 dB(A) ^{*2}	No
	30/11/2017		66.4		70 dB(A) ^{*3}	No
	6/12/2017		64.6		70 dB(A) ^{*2}	No
	12/12/2017		66.5		70 dB(A) ^{*2}	No
	18/12/2017		65.5		70 dB(A) ^{*2}	No
	23/12/2017		64.8		70 dB(A) ^{*2}	No
	29/12/2017		65.1		70 dB(A) ^{*2}	No
	4/1/2018		67.2		70 dB(A) ^{*2}	No
	10/1/2018		67.0		70 dB(A) ^{*2}	No
	16/1/2018		66.8		70 dB(A) ^{*2}	No
	22/1/2018		67.8		70 dB(A) ^{*2}	No
	27/1/2018		68.1		70 dB(A) ^{*2}	No

NM3	1/11/2017	74.5	74.6	When one documented complaint is received	75 dB(A)	No
	7/11/2017		74.8			No
	13/11/2017		74.3			No
	18/11/2017		74.2			No
	24/11/2017		74.1			No
	30/11/2017		74.1			No
	6/12/2017		72.2			No
	12/12/2017		72.5			No
	18/12/2017		73.7			No
	23/12/2017		74.6			No
	29/12/2017		73.8			No
	4/1/2018		73.8			No
	10/1/2018		74.1			No
	16/1/2018		74.7			No
	22/1/2018		74.0			No
	27/1/2018		74.4			No
NM4	1/11/2017	73.3	74.5	When one documented complaint is received	70 dB(A) * ²	Yes
	7/11/2017		74.1		70 dB(A) * ²	Yes
	13/11/2017		73.5		70 dB(A) * ²	Yes
	18/11/2017		73.9		70 dB(A) * ²	Yes
	24/11/2017		74.3		70 dB(A) * ²	Yes
	30/11/2017		74.8		70 dB(A) * ²	Yes
	6/12/2017		74.6		70 dB(A) * ²	Yes
	12/12/2017		74.8		65 dB(A) * ³	Yes
	18/12/2017		74.5		65 dB(A) * ³	Yes
	23/12/2017		74.7		70 dB(A) * ²	Yes
	29/12/2017		74.3		70 dB(A) * ²	Yes
	4/1/2018		74.0		70 dB(A) * ²	Yes
	10/1/2018		74.5		70 dB(A) * ²	Yes
	16/1/2018		74.8		65 dB(A) * ³	Yes
	22/1/2018		73.9		65 dB(A) * ³	Yes
	27/1/2018		74.2		70 dB(A) * ²	Yes
NM5	1/11/2017	71.8	71.6	When one documented complaint is received	75 dB(A)	No
	7/11/2017		72.1			No
	13/11/2017		71.1			No
	18/11/2017		72.5			No
	24/11/2017		71.6			No

	30/11/2017		71.2			No
	6/12/2017		71.5			No
	12/12/2017		72.1			No
	18/12/2017		71.9			No
	23/12/2017		71.4			No
	29/12/2017		72.5			No
	4/1/2018		72.5			No
	10/1/2018		71.6			No
	16/1/2018		71.8			No
	22/1/2018		72.2			No
	27/1/2018		71.5			No

Remark:

*¹ Measured result would be rounded down before comparison with the limit level

*² 70dB(A) for schools during normal teaching periods

*³ 65dB(A) for schools examination periods

In accordance with the established action and limited levels for impact monitoring, sixteen exceedances were recorded at NM4.

The noise source for causing exceedances at NM4 was from the traffic of Canton Road. The NM4 was directly affected by the noise generated from the traffic. The recorded monitoring results at the NM4 were near the baseline noise level. The exceedances were not caused by this project construction works.

During the monitoring period, traffic noise was identified as one of the noise source for NM1, NM2, NM3, NM4 and NM5. Noise levels of NM1 and NM3 may be influenced by the construction activities from other construction sites near Nga Cheung Road. Noise level of NM2 may be influenced by construction activities from other construction sites near Hoi Ting Road. Noise levels of NM4 and NM5 may be influenced by the construction activities from other construction sites near Canton Road.

5 Solid and Liquid Waste Management Status

With reference to relevant handling records and trip tickets of this Project, the quantities of different types of waste generated in the reporting month are summarised in Table 5.1. During this reporting month, inert C&D materials and general refuse were generated and disposed. No mixed waste was generated. No chemical waste was generated and collected by licensed collector. No paper, plastic and metal was recycled.

Table 5.1 Quantities of Waste Disposed from the Project

Reporting Month	Quantity						
	C&D Materials (inert) ^(a)	C&D Materials (non-inert) ^(b)					
		General Refuse	Mixed Waste	Chemical Waste	Recycled materials		
					Paper/ cardboard	Plastics	Metals
	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)	(in '000kg)
Nov 2017	2961.95	26.85	0	0	0	0	0
Dec 2017	3174.36	35.72	0	0	0	0	0
Jan 2018	3371.25	31.67	0	0	0	0	0
Total	9507.56	94.24	0	0	0	0	0
Notes:							
(a) Inert C&D materials include bricks, concrete, building debris, rubble and excavated soil.							
(b) Non-inert C&D materials include steel, paper/cardboard packaging waste, plastics and other wastes such as general refuse and vegetative wastes. Steel metal generated from the Project are grouped into non-inert C&D materials as the materials were not disposed of with other inert C&D materials.							

Waste materials were generated during this reporting period, such as excavated waste, demolition waste and general refuse. Contractor handled, stored and disposed in accordance with good waste management practice and EPD's regulation and requirements.

6 Landscape and Visual Impact

In accordance with the EM&A Manual, the landscape and visual mitigation measures shall be implemented to minimize the landscape and visual impacts during the construction works.

Bi-weekly site inspections were conducted by representatives of the Engineer, Contractor and ET on 3, 17 and 28 November 2017, 15 and 29 December 2017, 12 and 26 January 2018. The observations, reminders and recommendations made during the site inspections are summarized in Section 8.2.

The implementation status of the proposed mitigation measures for landscape and visual impacts is given in **Appendix F**.

7 Environmental Site Inspection

Site audit was carried out by ET on weekly basis to monitor the timely implementation of proper environmental management practices and mitigation measures in the Project site.

Joint weekly inspections were conducted by representatives of the Contract Administrator, Engineer, Contractor and ET on 6, 13 and 22 November 2017, 1, 4, 11, 20 and 29 December 2017, 4, 8, 15, 24 and 29 January 2018. Observations were recorded and summarized in Section 8.2.

During site inspection in the reporting month, no non-compliance was identified.

Updated status summary of the Environmental Mitigation Implementation Schedule is provided in **Appendix F**.

8 Environmental Non-Conformance

8.1 Summary of Environmental Exceedances

No exceedance of action level and limit level was recorded for TSP. Sixteen exceedances were recorded at NM4 for noise.

8.2 Summary of Environmental Non-Compliance

No environmental non-compliance was recorded in the reporting period.

8.3 Summary of Environmental Complaint

No environment project-related complaint was received in the reporting period.

8.4 Summary of Notification of Summons and Successful Prosecution

There was no successful environmental prosecution or notification of summons received since the Project commencement.

The cumulative log for environmental exceedance, non-compliance, complaint and summon and successful prosecution since the commencement of the Project is presented in **Appendix G**.

9 Comment, Recommendations and Conclusions

9.1 Comment

The recommended mitigation measures accordance with the EM&A Manual had been effectively implemented to minimize the environmental impacts due to the construction. The contractor had implemented the mitigation measures to control the dust and noise impacts. No dust and noise impacts obviously affected to the environment and sensitive receivers. The environmental performance during the reporting period was considered satisfactory.

9.2 Recommendations

According to the environmental audit performed in the reporting month, the following recommendation was made:

Air Quality

- To frequently implement water spraying for the exposed surface for dust suppression during the dry season.
- To cover the cement materials for preventing contamination and dust pollution.
- To completely cover the dusty materials for preventing air pollution.
- To cover or remove the soil materials.

Water / Wastewater

- To cover the soil materials and maintain appropriate storage.
- To cover the breaking concrete and debris or carry out disposal.
- To clean up the leakage and regularly maintain the excavator.
- To replace the broken sandbags for properly sealing the gully.
- To remove the muddy water and soiled water for keeping the site clean and tidy.
- To fully clean up the existing drainage system and protect the existing the gully.
- To collect the wastewater for keeping the site clean and tidy.
- To frequently clean and maintain the wastewater treatment facility for enhancing the treatment efficiency.
- To properly cover the soil materials.
- To provide sandbags barrier for preventing surface run-off from site.
- To set up a proper system for collecting and treating the wastewater.
- To clean up the ground and the drip tray and properly maintain the generator.
- To remove the kerb for directing wastewater.

- To frequently remove the silt and grit from the drainage channels.
- To cover and protect the drainage system for preventing debris and wastewater entering the drainage gully.

Chemicals / Chemical waste and C&D waste

- To provide suitable labels to all the chemicals and maintain proper storage.
- To cover and label the sediment storage tank.
- To frequently remove the waste and properly maintain all the waste containers.
- To remove the C&D materials/ waste and maintain proper storage.
- To provide drip tray for the chemical container as secondary containment.
- To relocate the container in designated storage area and cover the stockpile of soil materials.
- To clean up the oil leakage and properly maintain the on-site equipment.
- To store the chemical container in designated chemical storage area.
- To sort the waste and provide different containers for maintaining waste storage.
- To store the construction materials in designated storage area and prevent any damage to the retained trees during the construction activities.

Equipment, Document, Housekeeping & Others

- To regularly maintain the equipment for preventing oil leakage and dark smoke emission.

9.3 Conclusions

This is the quarterly Environmental Monitoring and Audit (EM&A) Report presenting the EM&A works undertaken during 1 November 2017 to 31 January 2018 in accordance with the EM&A Manual.

No exceedance of action level and limit level was recorded for TSP. Sixteen exceedances were recorded at NM4 for noise.

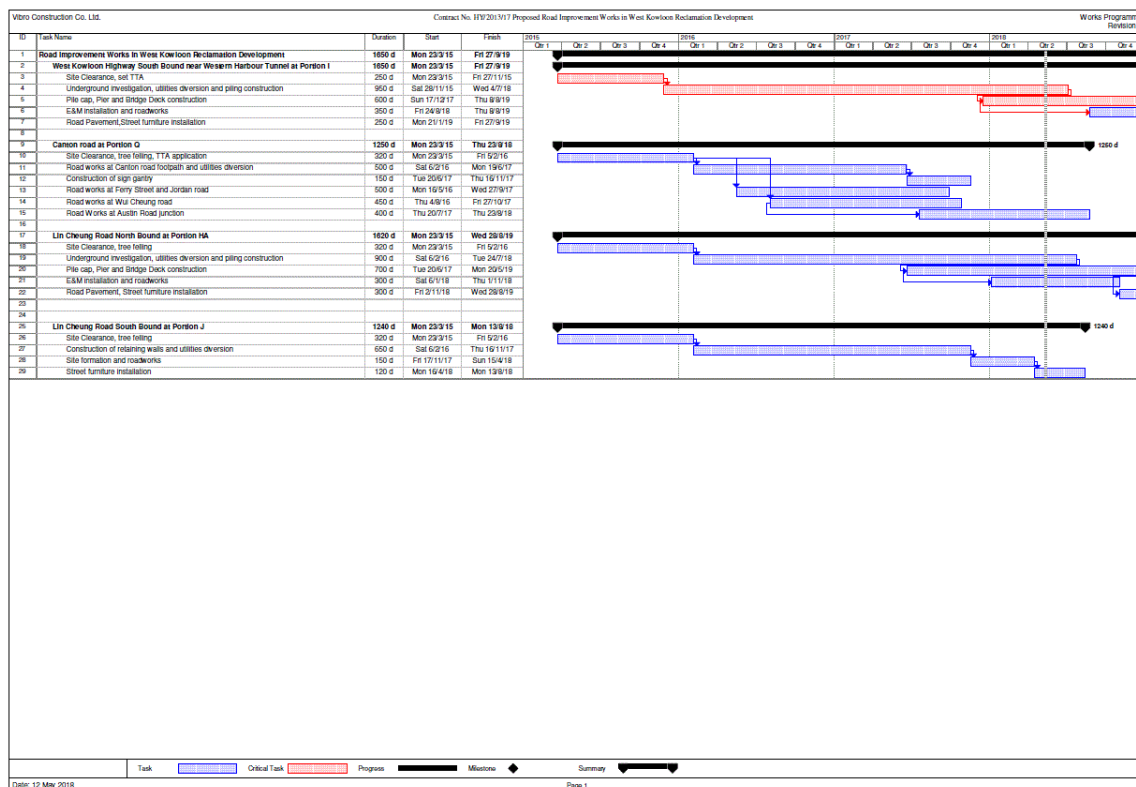
No Non-compliance event, environmental complaint, notification of summons and successful prosecution against the Project were received in this reporting period.

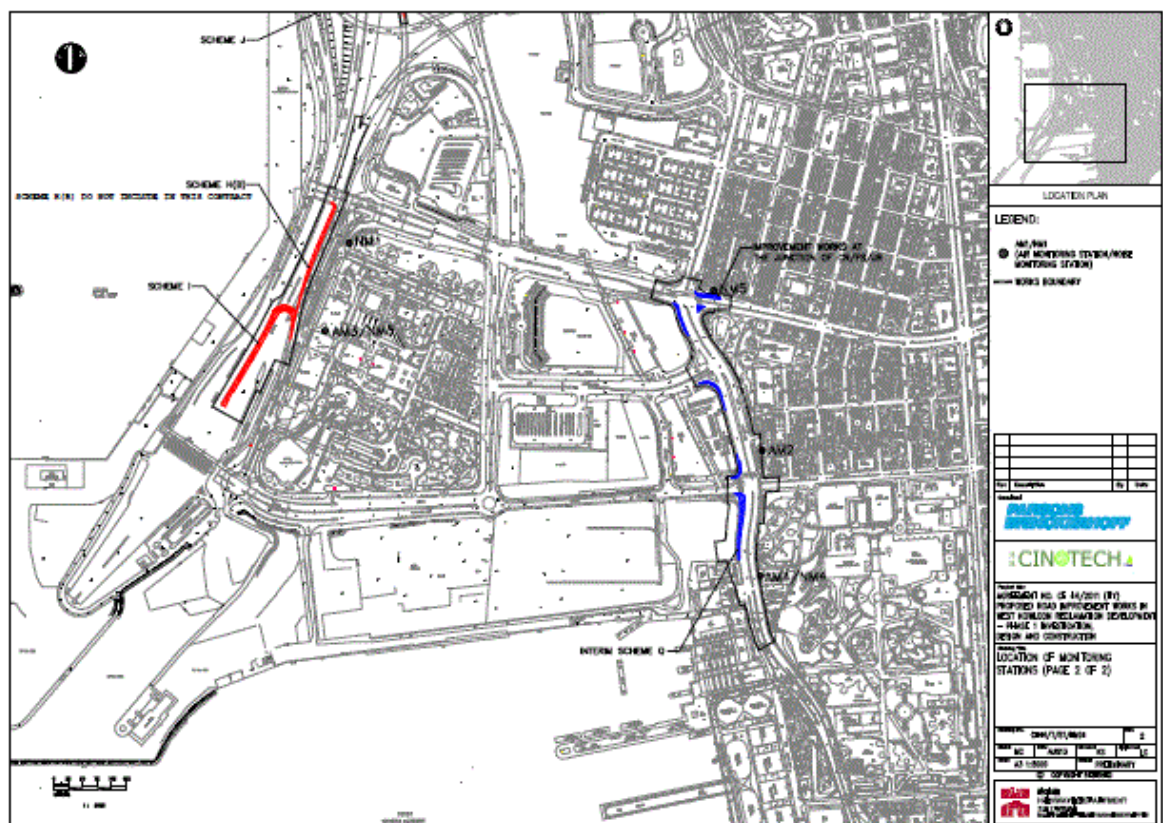
13 nos. of environmental site inspections and 7 nos. of landscape and visual inspections were carried out in this reporting month. Recommendations on remedial actions were given to the Contractor for the deficiencies identified during the site audit.

ET has reminded the contractor to provided environmental pollution control measures, waste management measures and good site practice

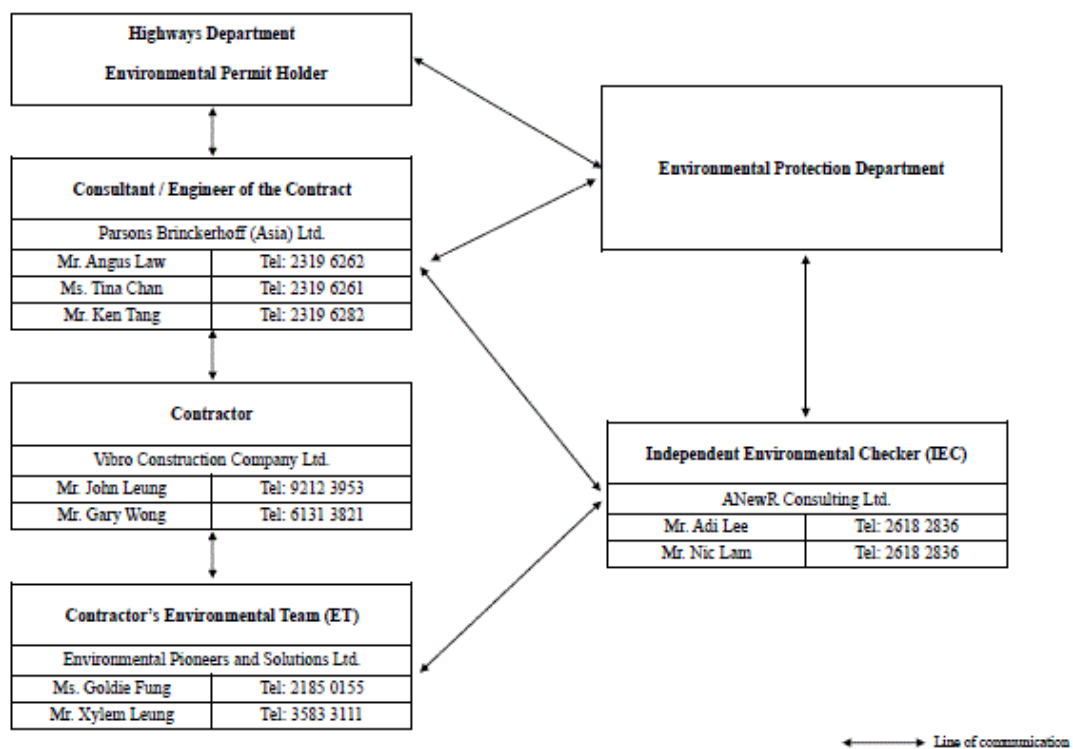
The ET will keep tracking of the EM&A programme to ensure compliance of environmental requirements and the proper implementation of all the necessary mitigation measures.

Appendix A: Construction Programme and Project Layout Plan



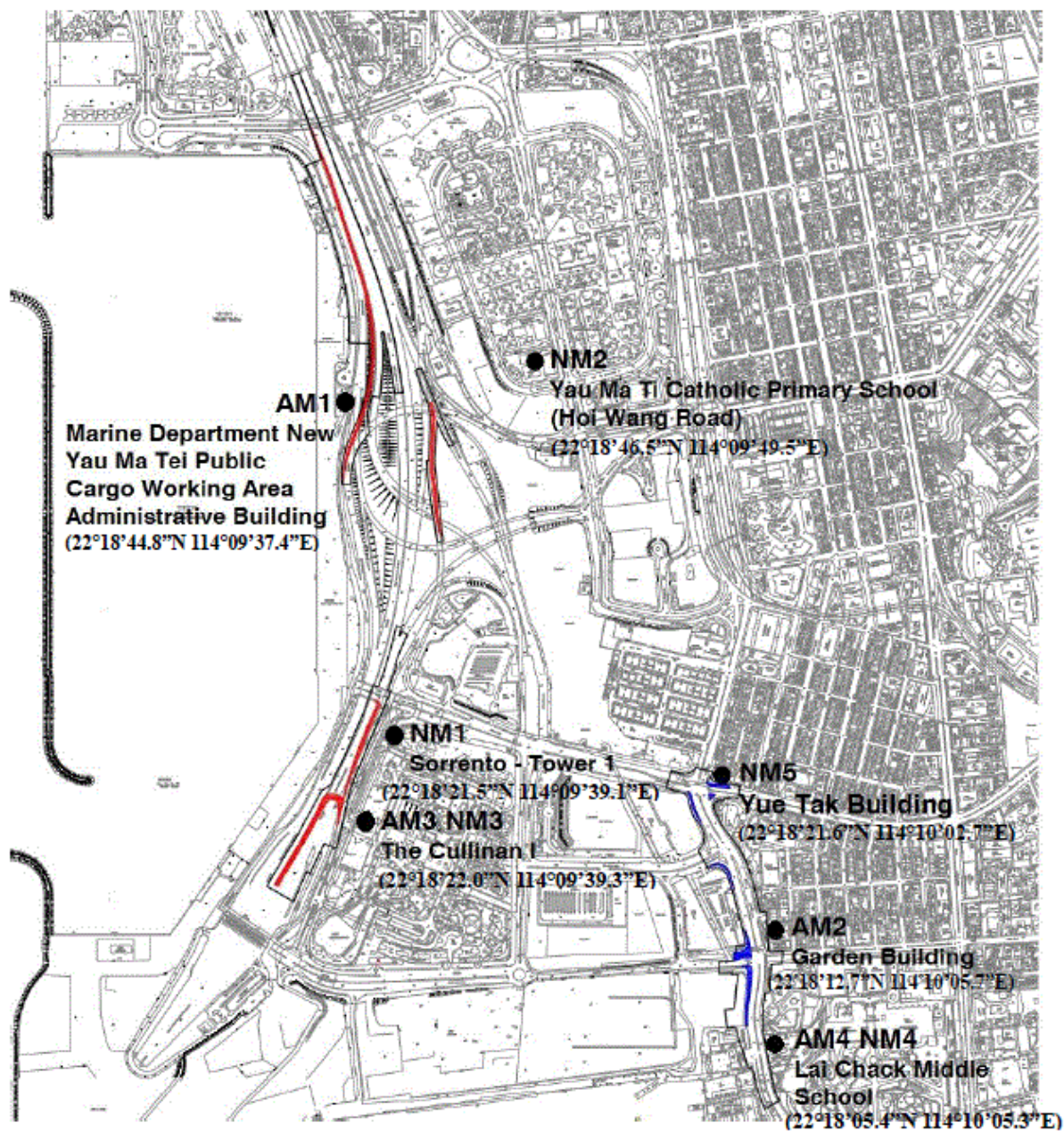






Appendix B: Project Organization Chart

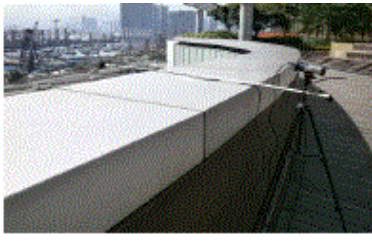






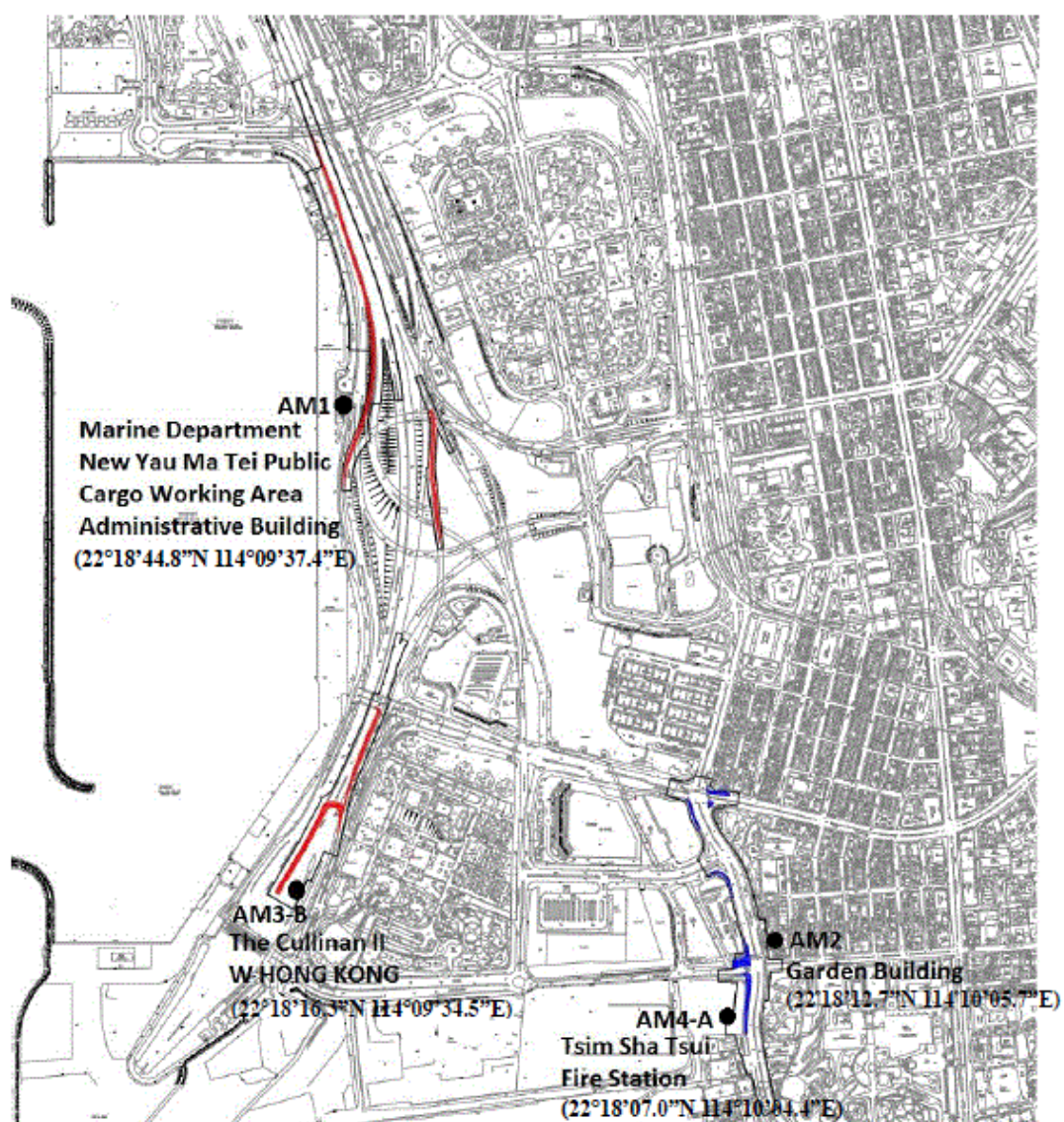
Appendix C: Monitoring Locations

Locations for 1-hr TSP and Noise monitoring



Monitoring Location	Photo Record
<p>AM1 Marine Department New Yau Ma Tei Public Cargo Working Area Administrative Building</p>	
<p>AM2 Garden Building</p>	
<p>AM3 The Cullinan I</p>	
<p>AM4 Lai Chack Middle School</p>	

<p>Sorrento - lower 1</p>	
<p>NM2 Yau Ma Ti Catholic Primary School (Hoi Wang Road)</p>	
<p>NM3 The Cullinan I</p>	
<p>NM4 Lai Chack Middle School</p>	
<p>NM5 Yue Tak Building</p>	



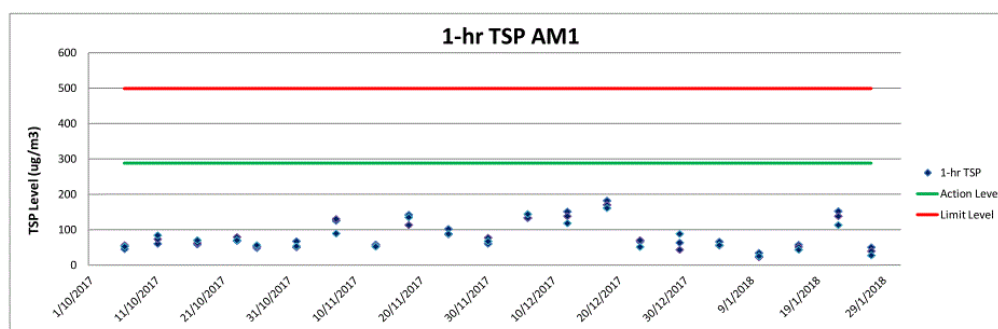
Monitoring Location	Photo Record
<p>AM1</p> <p>Marine Department New Yau Ma Tei Public Cargo Working Area Administrative Building</p>	
<p>AM2</p> <p>Garden Building</p>	
<p>AM3-B</p> <p>The Cullinan II (W Hong Kong)</p>	
<p>AM4-A</p> <p>Tsim Sha Tsui Fire Station</p>	

Appendix D: TSP Monitoring Data

1-hr TSP Monitoring Result for AM1

Date	Weather	Temperature (°C) *	Wind Direction *	Wind Speed (m/s) *	Sampling Time			Reading (µg/m ³)			
					1	2	3	1	2	3	Average
1/11/2017	Overcast	20.3 - 26.4	SE	<5m/s	14:02	15:03	16:04	68	51	54	58
7/11/2017	Sunny	21.0 - 26.3	NE	<5m/s	14:20	15:21	16:22	126	131	90	116
13/11/2017	Sunny	21.2 - 22.6	SE	<5m/s	10:53	11:54	12:55	59	55	53	56
18/11/2017	Overcast	19.8 - 26.6	NE	<5m/s	11:21	12:22	13:23	143	114	136	131
24/11/2017	Sunny	16.2 - 20.4	NE	<5m/s	12:33	13:34	14:35	103	88	89	93
30/11/2017	Sunny	21.2 - 23.1	SE	<5m/s	12:36	13:37	14:38	61	78	68	69
6/12/2017	Sunny	17.0 - 22.0	SE	<5m/s	15:01	16:02	17:03	134	134	145	138
12/12/2017	Overcast	16.9 - 21.2	SE	<5m/s	14:41	15:42	16:43	152	139	119	137
18/12/2017	Sunny	9.0 - 16.2	NE	<5m/s	10:05	11:06	12:07	183	171	162	172
23/12/2017	Sunny	17.1 - 21.8	SE	<5m/s	11:16	12:17	13:18	67	71	52	63
29/12/2017	Sunny	17.0 - 22.3	SE	<5m/s	13:45	14:46	15:47	64	44	89	66
4/1/2018	Overcast	17.8 - 21.3	SE	<5m/s	14:42	15:43	16:44	67	56	57	60
10/1/2018	Overcast	10.9 - 16.0	NE	<5m/s	9:20	10:21	11:22	35	23	26	28
16/1/2018	Sunny	14.1 - 21.8	W	<5m/s	10:09	11:10	12:11	58	52	44	51
22/1/2018	Sunny	16.5 - 23.0	NW	<5m/s	14:30	15:31	16:32	153	139	114	135
27/1/2018	Overcast	13.3 - 17.3	SE	<5m/s	11:37	12:38	13:39	51	40	28	40

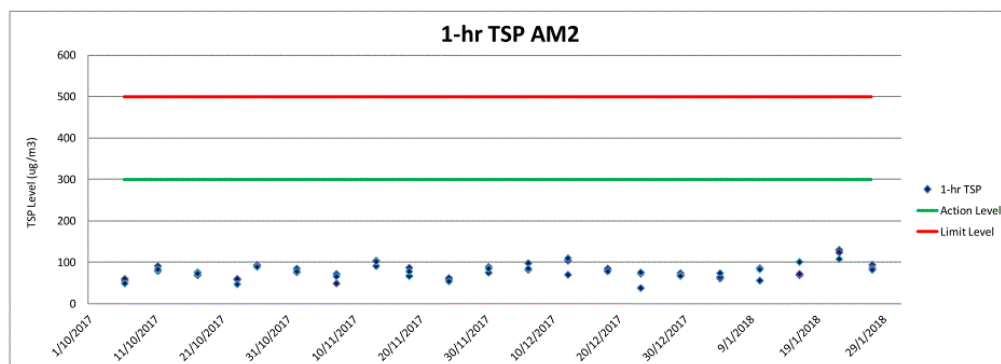
*Remark: Data of temperature, wind direction and wind speed was extracted from King's Park Meteorological Station of HKO



1-hr TSP Monitoring Result for AM2

Date	Weather	Temperature (°C) *	Wind Direction *	Wind Speed (m/s) *	Sampling Time			Reading (µg/m ³)			
					1	2	3	1	2	3	Average
1/11/2017	Overcast	20.3 - 26.4	SE	<5m/s	13:05	14:06	15:07	86	77	79	81
7/11/2017	Sunny	21.0 - 26.3	NE	<5m/s	13:05	14:06	15:07	73	50	67	63
13/11/2017	Sunny	21.2 - 22.6	SE	<5m/s	13:05	14:06	15:07	92	105	103	100
18/11/2017	Overcast	19.8 - 26.6	NE	<5m/s	13:05	14:06	15:07	68	88	79	78
24/11/2017	Sunny	16.2 - 20.4	NE	<5m/s	13:05	14:06	15:07	60	63	55	59
30/11/2017	Sunny	21.2 - 23.1	SE	<5m/s	13:05	14:06	15:07	76	90	86	84
6/12/2017	Sunny	17.0 - 22.0	SE	<5m/s	13:05	14:06	15:07	99	83	86	89
12/12/2017	Overcast	16.9 - 21.2	SE	<5m/s	13:05	14:06	15:07	71	105	111	96
18/12/2017	Sunny	9.0 - 16.2	NE	<5m/s	13:05	14:06	15:07	82	86	79	82
23/12/2017	Sunny	17.1 - 21.8	SE	<5m/s	13:05	14:06	15:07	39	74	77	63
29/12/2017	Sunny	17.0 - 22.3	SE	<5m/s	13:05	14:06	15:07	75	70	68	71
4/1/2018	Overcast	17.8 - 21.3	SE	<5m/s	13:05	14:06	15:07	62	66	75	68
10/1/2018	Overcast	10.9 - 16.0	NE	<5m/s	13:05	14:06	15:07	57	87	84	76
16/1/2018	Sunny	14.1 - 21.8	W	<5m/s	13:05	14:06	15:07	70	73	102	82
22/1/2018	Sunny	16.5 - 23.0	NW	<5m/s	13:05	14:06	15:07	131	125	109	122
27/1/2018	Overcast	13.3 - 17.3	SE	<5m/s	13:05	14:06	15:07	95	87	83	88

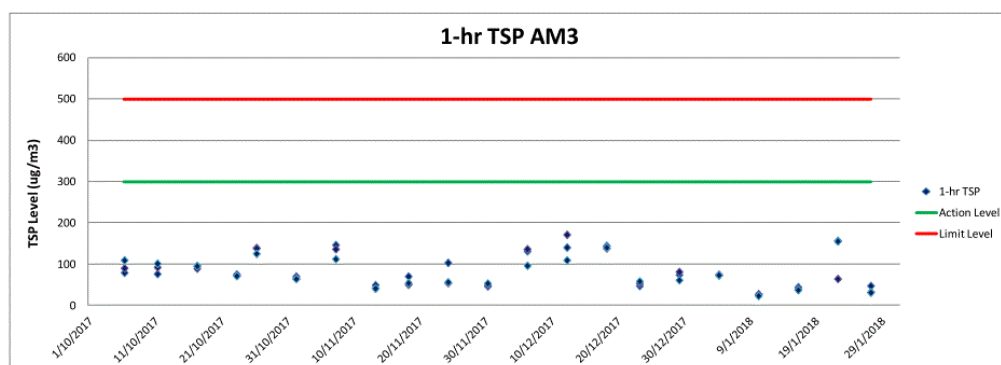
*Remark: Data of temperature, wind direction and wind speed was extracted from King's Park Meteorological Station of HKO



1-hr TSP Monitoring Result for AM3

Date	Weather	Temperature (°C) *	Wind Direction *	Wind Speed (m/s) *	Sampling Time			Reading (µg/m ³)			
					1	2	3	1	2	3	Average
1/11/2017	Overcast	20.3 - 26.4	SE	<5m/s	14:28	15:29	16:30	70	66	64	67
7/11/2017	Sunny	21.0 - 26.3	NE	<5m/s	15:09	16:10	17:11	146	136	112	131
13/11/2017	Sunny	21.2 - 22.6	SE	<5m/s	11:33	12:34	13:35	49	41	41	44
18/11/2017	Overcast	19.8 - 26.6	NE	<5m/s	10:44	11:45	12:46	70	50	54	58
24/11/2017	Sunny	16.2 - 20.4	NE	<5m/s	13:36	14:37	15:38	103	54	56	71
30/11/2017	Sunny	21.2 - 23.1	SE	<5m/s	13:35	14:36	15:37	46	48	53	49
6/12/2017	Sunny	17.0 - 22.0	SE	<5m/s	14:28	15:29	16:30	131	136	96	121
12/12/2017	Overcast	16.9 - 21.2	SE	<5m/s	14:08	15:09	16:10	140	171	109	140
18/12/2017	Sunny	9.0 - 16.2	NE	<5m/s	10:35	11:36	12:37	144	138	140	141
23/12/2017	Sunny	17.1 - 21.8	SE	<5m/s	10:46	11:47	12:48	47	53	58	53
29/12/2017	Sunny	17.0 - 22.3	SE	<5m/s	12:21	13:22	14:23	74	81	61	72
4/1/2018	Overcast	17.8 - 21.3	SE	<5m/s	13:46	14:47	15:48	73	74	73	73
10/1/2018	Overcast	10.9 - 16.0	NE	<5m/s	10:00	11:01	12:02	26	27	23	25
16/1/2018	Sunny	14.1 - 21.8	W	<5m/s	10:58	11:59	13:00	44	39	37	40
22/1/2018	Sunny	16.5 - 23.0	NW	<5m/s	15:08	16:09	17:10	156	64	155	125
27/1/2018	Overcast	13.3 - 17.3	SE	<5m/s	10:51	11:52	12:53	47	32	31	37

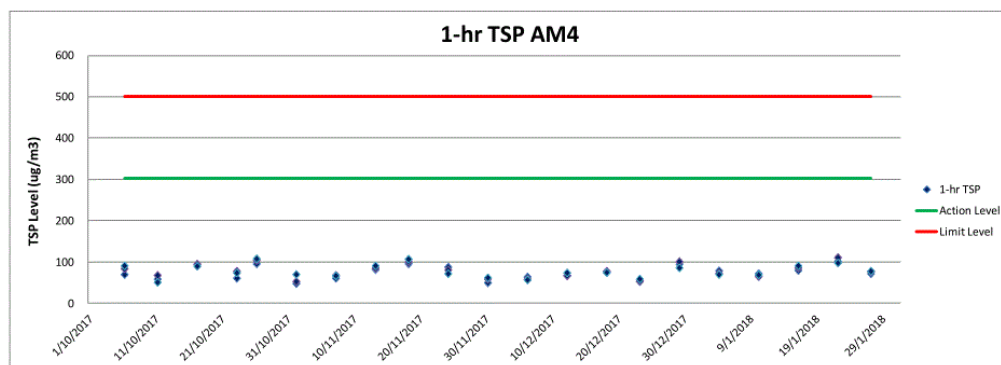
*Remark: Data of temperature, wind direction and wind speed was extracted from King's Park Meteorological Station of HKO



1-hr TSP Monitoring Result for AM4

Date	Weather	Temperature (°C) *	Wind Direction *	Wind Speed (m/s) *	Sampling Time			Reading (µg/m ³)			
					1	2	3	1	2	3	Average
1/11/2017	Overcast	20.3 - 26.4	SE	<5m/s	13:00	14:01	15:02	48	53	70	57
7/11/2017	Sunny	21.0 - 26.3	NE	<5m/s	13:00	14:01	15:02	61	68	67	65
13/11/2017	Sunny	21.2 - 22.6	SE	<5m/s	13:00	14:01	15:02	82	85	91	86
18/11/2017	Overcast	19.8 - 26.6	NE	<5m/s	13:00	14:01	15:02	96	101	107	101
24/11/2017	Sunny	16.2 - 20.4	NE	<5m/s	13:00	14:01	15:02	88	81	72	80
30/11/2017	Sunny	21.2 - 23.1	SE	<5m/s	13:00	14:01	15:02	50	59	62	57
6/12/2017	Sunny	17.0 - 22.0	SE	<5m/s	13:00	14:01	15:02	64	59	57	60
12/12/2017	Overcast	16.9 - 21.2	SE	<5m/s	13:00	14:01	15:02	68	67	74	70
18/12/2017	Sunny	9.0 - 16.2	NE	<5m/s	13:00	14:01	15:02	75	78	75	76
23/12/2017	Sunny	17.1 - 21.8	SE	<5m/s	13:00	14:01	15:02	53	54	59	55
29/12/2017	Sunny	17.0 - 22.3	SE	<5m/s	13:00	14:01	15:02	95	101	86	94
4/1/2018	Overcast	17.8 - 21.3	SE	<5m/s	13:00	14:01	15:02	79	73	70	74
10/1/2018	Overcast	10.9 - 16.0	NE	<5m/s	13:00	14:01	15:02	72	65	69	69
16/1/2018	Sunny	14.1 - 21.8	W	<5m/s	13:00	14:01	15:02	80	86	91	86
22/1/2018	Sunny	16.5 - 23.0	NW	<5m/s	13:00	14:01	15:02	102	111	98	104
27/1/2018	Overcast	13.3 - 17.3	SE	<5m/s	13:00	14:01	15:02	72	77	78	76

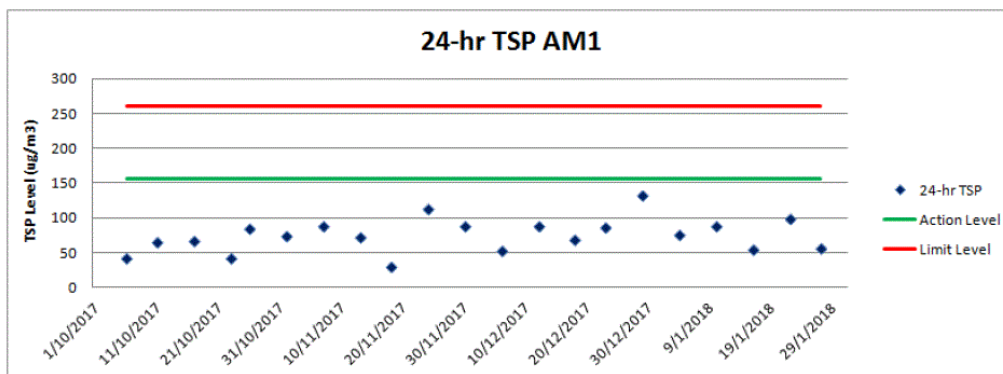
*Remark: Data of temperature, wind direction and wind speed was extracted from King's Park Meteorological Station of HKO



24-hr TSP Monitoring Result for AM1

Sampling ID & Paper No.	Temperature (°C) *	Wind Direction *	Wind Speed (m/s) *	Sampling Date	Wt. of paper (g)			Flow Rate (CFM)	Total Volume (m³)	TSP Concentration (µg/m³)
					Initial Wt.	Final Wt.	Wt. of dust			
AM11101 203385	20.3 - 26.4	SE	<5m/s	1/11/2017	2.8397	2.9973	0.1576	50.0	2099.92	75
AM11107 203387	21.0 - 26.3	NE	<5m/s	7/11/2017	2.8462	3.0321	0.1859	50.0	2099.92	89
AM11113 203386	21.2 - 22.6	SE	<5m/s	13/11/2017	2.8583	3.0123	0.1540	50.0	2099.92	73
AM11118 203390	19.8 - 26.6	NE	<5m/s	18/11/2017	2.8345	2.9002	0.0657	50.0	2099.92	31
AM11124 203392	16.2 - 20.4	NE	<5m/s	24/11/2017	2.8332	3.0733	0.2401	50.0	2099.92	114
AM11130 204440	21.2 - 23.1	SE	<5m/s	30/11/2017	2.6242	2.8085	0.1843	50.0	2099.92	88
AM11206 204439	17.0 - 22.0	SE	<5m/s	6/12/2017	2.6239	2.7845	0.1606	58.0	3003.07	53
AM11212 204448	16.9 - 21.2	SE	<5m/s	12/12/2017	2.6412	2.9071	0.2659	58.0	3003.07	89
AM11218 204449	9.0 - 16.2	NE	<5m/s	18/12/2017	2.6543	2.8652	0.2109	58.0	3003.07	70
AM11223 204452	17.1 - 21.8	SE	<5m/s	23/12/2017	2.6546	2.9144	0.2598	58.0	3003.07	87
AM11229 204450	17.0 - 22.3	SE	<5m/s	29/12/2017	2.6450	3.0413	0.3963	58.0	3003.07	132
AM10104 204468	17.8 - 21.3	SE	<5m/s	4/1/2018	2.6210	2.8491	0.2281	58.0	3003.07	76
AM10110 204477	10.9 - 16.0	NE	<5m/s	10/1/2018	2.6263	2.8938	0.2675	58.0	3003.07	89
AM10116 204451	14.1 - 21.8	W	<5m/s	16/1/2018	2.6300	2.7940	0.1640	58.0	3003.07	55
AM10122 204463	16.5 - 23.0	NW	<5m/s	22/1/2018	2.6492	2.9477	0.2985	58.0	3003.07	99
AM10127 204472	13.3 - 17.3	SE	<5m/s	27/1/2018	2.6531	2.8233	0.1702	58.0	3003.07	57

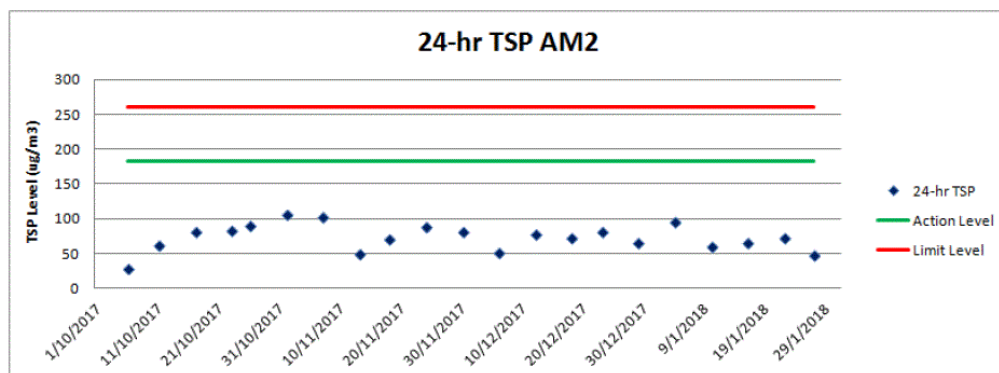
*Remark: Data of temperature, wind direction and wind speed was extracted from King's Park Meteorological Station of HKO



24-hr TSP Monitoring Result for AM2

Sampling ID & Paper No.	Temperature (°C) *	Wind Direction *	Wind Speed (m/s) *	Sampling Date	Wt. of paper (g)			Flow Rate (CFM)	Total Volume (m³)	TSP Concentration (µg/m³)
					Initial Wt.	Final Wt.	Wt. of dust			
AM21101 203343	26.8 - 30.9	SE	<5m/s	1/11/2017	2.8331	3.0689	0.2358	50.0	2237.56	105
AM21107 203344	26.4 - 31.1	SE	<5m/s	7/11/2017	2.8244	3.0541	0.2297	50.0	2237.56	103
AM21113 204437	24.6 - 31.1	E	<5m/s	13/11/2017	2.6188	2.7276	0.1088	50.0	2237.56	49
AM21118 204435	20.8 - 27.0	NE	<5m/s	18/11/2017	2.6411	2.8010	0.1599	50.0	2237.55	71
AM21026 204436	22.0 - 28.1	SE	<5m/s	24/11/2017	2.6294	2.8286	0.1992	50.0	2237.56	89
AM21130 203342	21.2 - 23.1	SE	<5m/s	30/11/2017	2.8258	3.0099	0.1841	50.0	2237.56	82
AM21206 204438	17.0 - 22.0	SE	<5m/s	6/12/2017	2.6409	2.7875	0.1466	56.0	2868.60	51
AM21212 203341	16.9 - 21.2	SE	<5m/s	12/12/2017	2.8248	3.0491	0.2243	56.0	2868.60	78
AM21218 204444	9.0 - 16.2	NE	<5m/s	18/12/2017	2.6367	2.8431	0.2064	56.0	2868.60	72
AM21223 204458	17.1 - 21.8	SE	<5m/s	23/12/2017	2.6480	2.8807	0.2327	56.0	2868.60	81
AM21229 204445	17.0 - 22.3	SE	<5m/s	29/12/2017	2.6133	2.7985	0.1852	56.0	2868.60	65
AM20104 204447	17.0 - 22.0	SE	<5m/s	4/1/2018	2.6332	2.9085	0.2753	56.0	2868.60	96
AM20110 204446	16.9 - 21.2	SE	<5m/s	10/1/2018	2.6303	2.8025	0.1722	56.0	2868.60	60
AM20116 204459	9.0 - 16.2	NE	<5m/s	16/1/2018	2.6423	2.8326	0.1903	56.0	2868.60	66
AM20122 204460	17.1 - 21.8	SE	<5m/s	22/1/2018	2.6380	2.8470	0.2090	56.0	2868.60	73
AM20127 204483	17.0 - 22.3	SE	<5m/s	27/1/2018	2.6402	2.7747	0.1345	56.0	2868.60	47

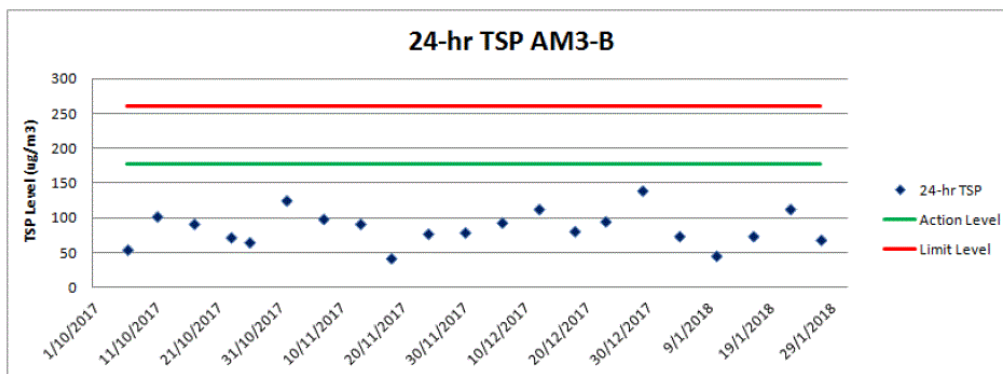
*Remark: Data of temperature, wind direction and wind speed was extracted from King's Park Meteorological Station of HKO



24-hr TSP Monitoring Result for AM3-B

Sampling ID & Paper No.	Temperature (°C) *	Wind Direction *	Wind Speed (m/s) *	Sampling Date	Wt. of paper (g)			Flow Rate (CFM)	Total Volume (m³)	TSP Concentration (µg/m³)
					Initial Wt.	Final Wt.	Wt. of dust			
AM3-B1101 203375	26.8 - 30.9	SE	<5m/s	1/11/2017	2.8002	3.0746	0.2744	50.0	2182.40	126
AM3-B1107 203389	26.4 - 31.1	SE	<5m/s	7/11/2017	2.8455	3.0606	0.2151	50.0	2182.40	99
AM3-B1113 203388	24.6 - 31.1	E	<5m/s	13/11/2017	2.8503	3.0534	0.2031	50.0	2182.40	93
AM3-B1118 203391	20.8 - 27.0	NE	<5m/s	18/11/2017	2.8408	2.9337	0.0929	50.0	2182.40	43
AM3-B1124 204443	22.0 - 28.1	SE	<5m/s	24/11/2017	2.6276	2.7971	0.1695	50.0	2182.40	78
AM3-B1130 204441	21.2 - 23.1	SE	<5m/s	30/11/2017	2.6253	2.7969	0.1716	50.0	2182.40	79
AM3-B1206 204457	17.0 - 22.0	SE	<5m/s	6/12/2017	2.6510	2.9240	0.2730	58.0	2908.07	94
AM3-B1212 204442	16.9 - 21.2	SE	<5m/s	12/12/2017	2.6357	2.9669	0.3312	58.0	2908.07	114
AM3-B1218 204456	9.0 - 16.2	NE	<5m/s	18/12/2017	2.6199	2.8542	0.2343	58.0	2908.07	81
AM3-B1223 204453	17.1 - 21.8	SE	<5m/s	23/12/2017	2.6413	2.9212	0.2799	58.0	2908.07	96
AM3-B1229 204454	17.0 - 22.3	SE	<5m/s	29/12/2017	2.6657	3.0687	0.4030	58.0	2908.07	139
AM3-B0104 204455	17.0 - 22.0	SE	<5m/s	4/1/2018	2.6508	2.8676	0.2168	58.0	2908.07	75
AM3-B0110 204465	16.9 - 21.2	SE	<5m/s	10/1/2018	2.6553	2.7900	0.1347	58.0	2908.07	46
AM3-B0116 204467	9.0 - 16.2	NE	<5m/s	16/1/2018	2.6303	2.8452	0.2149	58.0	2908.07	74
AM3-B0122 204469	17.1 - 21.8	SE	<5m/s	22/1/2018	2.6282	2.9572	0.3290	58.0	2908.07	113
AM3-B0127 204481	17.0 - 22.3	SE	<5m/s	27/1/2018	2.6002	2.8006	0.2004	58.0	2908.07	69

*Remark: Data of temperature, wind direction and wind speed was extracted from King's Park Meteorological Station of HKO

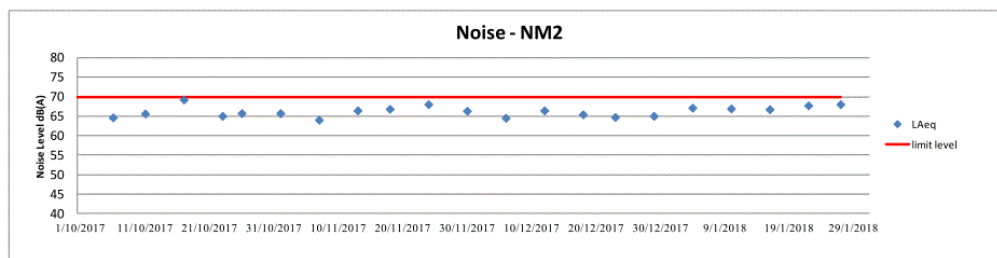


Appendix E: Noise Monitoring Data

Location	NM2					
Date	1/11/2017	7/11/2017	13/11/2017	18/11/2017	24/11/2017	30/11/2017
Weather Condition	Overcast	Sunny	Sunny	Overcast	Sunny	Sunny
Start Time	9:45	9:45	9:45	9:45	9:45	9:45
Measurement Period	30min	30min	30min	30min	30min	30min
Baseline Level	66.5					
L _{Aeq}	65.8	64.1	66.5	66.9	68.1	66.4
L ₁₀	67.9	67.3	70.7	69.8	70.5	69.9
L ₉₀	59.6	57.8	60.4	59.9	61.0	60.0

Location	NM2				
Date	6/12/2017	12/12/2017	18/12/2017	23/12/2017	29/12/2017
Weather Condition	Sunny	Overcast	Sunny	Sunny	Sunny
Start Time	9:45	9:45	9:45	9:45	9:45
Measurement Period	30min	30min	30min	30min	30min
Baseline Level	66.5				
L _{Aeq}	64.6	66.5	65.5	64.8	65.1
L ₁₀	67.5	69.1	68.7	68.8	69.7
L ₉₀	59.2	59.9	59.0	59.4	59.1

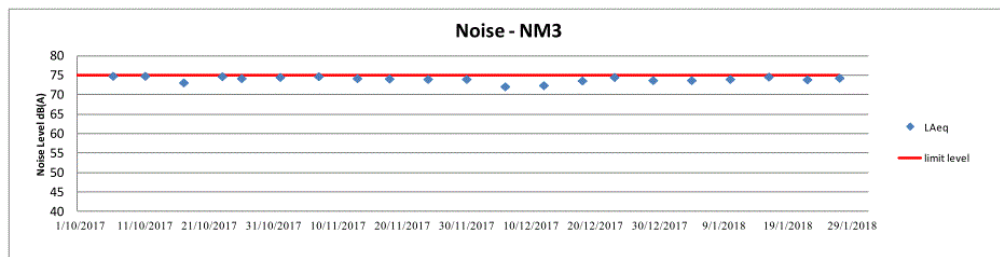
Location	NM2				
Date	4/1/2018	10/1/2018	16/1/2018	22/1/2018	27/1/2018
Weather Condition	Sunny	Sunny	Sunny	Sunny	Sunny
Start Time	9:00	9:00	9:00	9:00	9:00
Measurement Period	30min	30min	30min	30min	30min
Baseline Level	66.5				
L _{Aeq}	67.2	67.0	66.8	67.8	68.1
L ₁₀	71.6	71.2	70.7	71.5	72.0
L ₉₀	64.2	63.8	63.9	64.1	63.8



Location	NM3					
Date	1/11/2017	7/11/2017	13/11/2017	18/11/2017	24/11/2017	30/11/2017
Weather Condition	Overcast	Sunny	Sunny	Overcast	Sunny	Sunny
Start Time	14:51	15:12	11:49	16:28	14:47	14:41
Measurement Period	30min	30min	30min	30min	30min	30min
Baseline Level	74.5					
L _{Aeq}	74.6	74.8	74.3	74.2	74.1	74.1
L ₁₀	77.3	77.1	76.6	76.8	76.1	76.8
L ₉₀	71.0	71.2	71.3	70.6	68.9	69.4

Location	NM3				
Date	6/12/2017	12/12/2017	18/12/2017	23/12/2017	29/12/2017
Weather Condition	Sunny	Overcast	Sunny	Sunny	Sunny
Start Time	14:28	15:39	14:35	13:02	13:55
Measurement Period	30min	30min	30min	30min	30min
Baseline Level	74.5				
L _{Aeq}	72.2	72.5	73.7	74.6	73.8
L ₁₀	74.7	75.4	75.2	77.4	75.8
L ₉₀	67.3	67.4	67.7	71.5	68.8

Location	NM3				
Date	4/1/2018	10/1/2018	16/1/2018	22/1/2018	27/1/2018
Weather Condition	Sunny	Sunny	Sunny	Sunny	Sunny
Start Time	16:07	10:29	11:10	11:45	14:45
Measurement Period	30min	30min	30min	30min	30min
Baseline Level	74.5				
L _{Aeq}	73.8	74.1	74.7	74.0	74.4
L ₁₀	77.0	76.5	76.1	76.8	77.6
L ₉₀	69.3	70.9	69.8	69.7	70.1

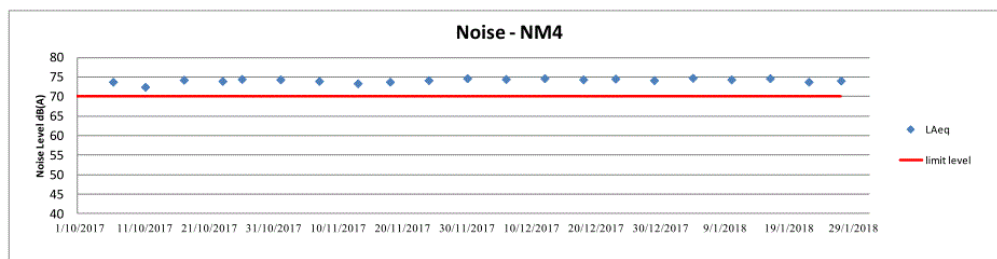


Location	NM4						NM4 (Re-measurement) *					
Date	1/11/2017	7/11/2017	13/11/2017	18/11/2017	24/11/2017	30/11/2017	1/11/2017	7/11/2017	13/11/2017	18/11/2017	24/11/2017	30/11/2017
Weather Condition	Overcast	Sunny	Sunny	Overcast	Sunny	Sunny	Overcast	Sunny	Sunny	Overcast	Sunny	Sunny
Start Time	13:00	13:00	13:00	13:00	13:00	13:00	13:31	13:31	13:31	13:31	13:31	13:31
Measurement Period	30min	30min	30min	30min	30min	30min	30min	30min	30min	30min	30min	30min
Baseline Level	73.3						73.3					
L _{Aeq}	74.5	74.1	73.5	73.9	74.3	74.8	74.1	73.6	74.0	74.3	73.8	74.2
L ₁₀	78.6	78.2	76.8	77.1	78.2	78.5	78.0	77.5	77.8	77.5	77.6	78.5
L ₉₀	67.0	66.8	67.3	67.8	66.3	66.8	66.5	67.0	66.9	67.5	67.3	66.5

Location	NM4					NM4 (Re-measurement) *				
Date	6/12/2017	12/12/2017	18/12/2017	23/12/2017	29/12/2017	6/12/2017	12/12/2017	18/12/2017	23/12/2017	29/12/2017
Weather Condition	Sunny	Overcast	Sunny	Sunny	Sunny	Sunny	Overcast	Sunny	Sunny	Sunny
Start Time	13:00	13:00	13:00	13:00	13:00	13:31	13:31	13:31	13:31	13:31
Measurement Period	30min	30min	30min	30min	30min	30min	30min	30min	30min	30min
Baseline Level	73.3					73.3				
L _{Aeq}	74.6	74.8	74.5	74.7	74.3	75.1	74.5	73.9	74.4	74.8
L ₁₀	78.8	79.0	78.6	78.7	78.5	79.2	78.7	78.2	78.5	79.3
L ₉₀	66.9	67.0	67.2	66.6	67.4	67.0	66.8	66.7	66.9	66.9

Location	NM4					NM4 (Re-measurement) *				
Date	4/1/2018	10/1/2018	16/1/2018	22/1/2018	27/1/2018	4/1/2018	10/1/2018	16/1/2018	22/1/2018	27/1/2018
Weather Condition	Sunny	Sunny	Sunny	Sunny	Sunny	Sunny	Sunny	Sunny	Sunny	Sunny
Start Time	13:00	13:00	13:00	13:00	13:00	13:31	13:31	13:31	13:31	13:31
Measurement Period	30min	30min	30min	30min	30min	30min	30min	30min	30min	30min
Baseline Level	73.3					73.3				
L _{Aeq}	74.0	74.5	74.8	73.9	74.2	74.8	74.2	74.6	74.3	74.1
L ₁₀	78.2	78.6	79.0	77.5	78.4	78.7	78.3	78.6	77.7	78.0
L ₉₀	66.1	66.8	67.5	67.1	66.9	66.5	66.7	68.0	67.5	66.9

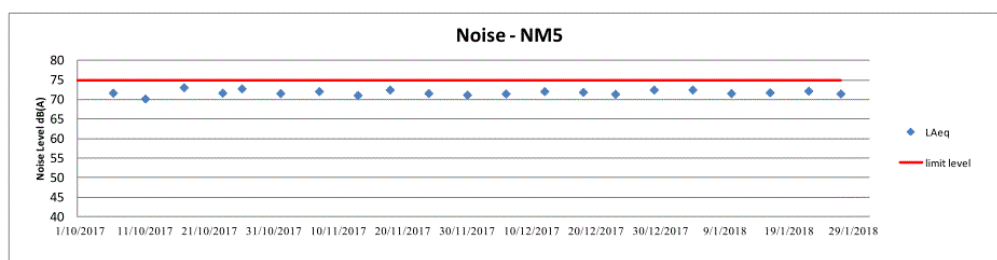
* Repeat noise measurement when exceedance is recorded. The result is used to confirm the findings and it would not be showed on the graph plot



Location	NM5					
Date	1/11/2017	7/11/2017	13/11/2017	18/11/2017	24/11/2017	30/11/2017
Weather Condition	Overcast	Sunny	Sunny	Overcast	Sunny	Sunny
Start Time	14:45	16:55	14:45	14:45	14:45	14:45
Measurement Period	30min	30min	30min	30min	30min	30min
Baseline Level	71.8					
L _{Aeq}	71.6	72.1	71.1	72.5	71.6	71.2
L ₁₀	74.0	74.6	73.4	75.1	73.6	73.5
L ₉₀	63.8	63.5	62.9	63.0	63.2	62.7

Location	NM5				
Date	6/12/2017	12/12/2017	18/12/2017	23/12/2017	29/12/2017
Weather Condition	Sunny	Overcast	Sunny	Sunny	Sunny
Start Time	14:45	16:55	14:45	14:45	14:45
Measurement Period	30min	30min	30min	30min	30min
Baseline Level	71.8				
L _{Aeq}	71.5	72.1	71.9	71.4	72.5
L ₁₀	73.8	74.3	74.1	73.5	74.8
L ₉₀	63.0	62.9	73.5	63.3	63.2

Location	NM5				
Date	4/1/2018	10/1/2018	16/1/2018	22/1/2018	27/1/2018
Weather Condition	Sunny	Sunny	Sunny	Sunny	Sunny
Start Time	14:45	16:55	14:45	14:45	14:45
Measurement Period	30min	30min	30min	30min	30min
Baseline Level	71.8				
L _{Aeq}	72.5	71.6	71.8	72.2	71.5
L ₁₀	74.8	73.8	74.1	74.3	73.5
L ₉₀	62.7	62.3	63.2	63.0	62.9



Appendix F: Environmental Mitigation Implementation Schedule

Implementation Schedule for Environmental Mitigation Measures

EIA Ref.	EM&A Ref.	Recommended Mitigation Measures	Objectives of the Recommended Measure & Main Concerns to address	Who to Implement the measure	Location of the measure	When to implement the measure	What requirements or standard for the measure to achieve	Implementation Status
Air Quality Impact (Construction Phase)								
4.8	A1	housekeeping to minimize dust generation, e.g. by properly handling and storing dusty materials	To minimize dust generation	HyD's Contractor	Whole construction site	Throughout construction phase	EIAO-TM, APCO	#
4.8	A2	Adopt dust control measures, such as dust suppression using water spray on exposed soil (at least 8 times per day), in areas with dusty construction activities and during material handling	To minimize dust generation due to erosion	HyD's Contractor	Whole construction site	Throughout construction phase	EIAO-TM, APCO	✓
4.8	A3	Store cement bags in shelter with 3 sides and the top covered by impervious materials if the stack exceeds 20 bags	To prevent leakage of cement	HyD's Contractor	Whole construction site	Throughout construction phase	EIAO-TM, APCO	*
4.8	A4	Maintain a reasonable height when dropping excavated materials to limit dust generation	To minimize dust generation during movement of excavated materials	HyD's Contractor	Whole construction site	Throughout construction phase	EIAO-TM, APCO	✓
4.8	A5	Limit vehicle speed within site to 10km/hr and confine vehicle movement in haul road	To minimize dust generation due to traffic movement	HyD's Contractor	Whole construction site	Throughout construction phase	EIAO-TM, APCO	✓
4.8	A6	Minimize exposed earth after completion of work in a certain area by hydroseeding, vegetating, soil compacting or covering with bitumen	To minimize dust generation due to erosion	HyD's Contractor	Whole construction site	Throughout construction phase	EIAO-TM, APCO	✓
4.8	A7	Provide wheel washing at site exit to clean the vehicle body and wheel	To prevent dust from being brought offsite	HyD's Contractor	Whole construction site	Throughout construction phase	EIAO-TM, APCO	✓
4.8	A8	Hard pave the area at site exit with concrete, bitumen or hardcore	To prevent dust from being brought offsite	HyD's Contractor	Whole construction site	Throughout construction phase	EIAO-TM, APCO	✓
4.8	A9	Cover materials on trucks before leaving the site to prevent debris from dropping during traffic movement or being blown away by wind	To prevent falling of debris during traffic movement and by wind	HyD's Contractor	Whole construction site	Throughout construction phase	EIAO-TM, APCO	✓
4.8	A11	Regular maintenance of plant equipment to prevent black smoke emission	To minimize black smoke emission	HyD's Contractor	Whole construction site	Throughout construction phase	EIAO-TM, APCO	✓
4.8	A12	Throttle down or switch off unused machines or machine in intermittent use	To minimize unnecessary emission	HyD's Contractor	Whole construction site	Throughout construction phase	EIAO-TM, APCO	✓
4.8	A13	Carry out regular site inspection to audit the implementation of mitigation measures	To check the implementation status and effectiveness of mitigation measures	HyD's Contractor	Whole construction site	Throughout construction phase	EIAO-TM, APCO	✓

4.8	A14	Carry out air quality monitoring throughout the construction period	To monitor construction dust level	HyD's Contractor	At representative ASRs	Prior to and throughout construction phase	EIAO-TM	✓
Noise Impact (Construction Phase)								
3.8	N1	Adopt good site practice, such as regular maintenance of plant equipment, throttle down unused machines	To minimize construction noise level	HyD's Contractor	Whole construction site	Throughout construction phase	NCO,EIAO-TM	✓
3.8	N2	Use Quality Powered Mechanical Equipment (QPME) which produces lower noise level (e.g. Excavator/Loader (EPD-01431), Asphalt Paver (EPD-01226), Road Roller (EPD-00244) and Mobile Crane (EPD-01477))	To minimize construction noise level	HyD's Contractor	Whole construction site	Throughout construction phase	NCO,EIAO-TM	✓
3.8	N3	Erect movable noise barrier at significant noise source(e.g. Concrete Pump, Concrete Lorry Mixer, Excavator/Loader, Road Sweeper, Asphalt Paver, Road Roller, Lorry, Breaker and Poker)	To lower noise transmission	HyD's Contractor	Whole construction site	Throughout construction phase	NCO,EIAO-TM	✓
3.8	N5	Regular maintenance of plant equipment to prevent noise emission due to impair	To prevent noise emission due to impair	HyD's Contractor	Whole construction site	Throughout construction phase	NCO,EIAO-TM	✓
3.8	N6	Position mobile noisy equipment in location and direction away from NSR	To minimize noise transmission to NSR	HyD's Contractor	Whole construction site	Throughout construction phase	NCO,EIAO-TM	N/A

3.8	N7	Use silencer or muffler on plant equipment and should be properly maintained	To minimize noise transmission	HyD's Contractor	Whole construction site	Throughout construction phase	NCO,EIAO-TM	✓
3.8	N8	Throttle down or switch off unused machines or machine in intermittent use between work	To minimize noise production	HyD's Contractor	Whole construction site	Throughout construction phase	NCO,EIAO-TM	✓
3.8	N9	Make good use of stockpiles or other structures for noise screening	To minimize noise transmission	HyD's Contractor	Whole construction site	Throughout construction phase	NCO,EIAO-TM	N/A
3.8	N10	Avoid carrying out noisy activities at the same time	To minimize noise production	HyD's Contractor	Whole construction site	Throughout construction phase	NCO,EIAO-TM	✓
3.8	N11	Reduce the percentage on-time for some noisy PMEs	To minimize noise production	HyD's Contractor	Whole construction site	Throughout construction phase	NCO,EIAO-TM	✓
3.8	N12	Carry out noise monitoring	To monitor construction noise level	HyD's Contractor	At representative NSRs	Prior to and throughout construction phase	EIAO-TM	✓
Water Impact (Construction Phase)								
5.8	W1	Recirculate settled water for ground boring and drilling during site investigation or rock/soil anchoring.	To minimize wastewater generation	HyD's Contractor	Whole construction site	Throughout construction phase	ProPECC PN 1/94, EIAO-TM	#
5.8	W2	Set up sedimentation tank for settling suspended solids in wastewater before discharge into storm drains. Sand/silt	To reduce the amount of suspended solid in wastewater	HyD's Contractor	Whole construction site	Throughout construction phase	ProPECC PN 1/94, EIAO-TM	*

		removal facilities such as sand traps, silt traps and sedimentation basin should be provided with adequate capacity.						
5.8	W3	Pave the construction road between the wheel washing bay and the public road with backfall	To prevent soil and site runoff from leaving the site	HyD's Contractor	Whole construction site	Throughout construction phase	ProPECC PN 1/94, ELAO-TM	✓
5.8	W4	Follow ProPECC PN 1/94 "Construction Site Drainage" as far as practicable	To minimize surface runoff and chance of erosion	HyD's Contractor	Whole construction site	Throughout construction phase	ProPECC PN 1/94, ELAO-TM	*
5.8	W5	Provide perimeter channels at site boundaries.	To stop offsite storm runoff from entering the site	HyD's Contractor	Whole construction site	Throughout construction phase	ProPECC PN 1/94, ELAO-TM	*
5.8	W6	Construct catchpits and perimeter channels prior to commencement of site formation works and earthworks.	To stop runoff from flowing across the site	HyD's Contractor	Whole construction site	Throughout construction phase	ProPECC PN 1/94, ELAO-TM	✓
5.8	W7	Maintain silt removal facilities, channels, manholes before and after rainstorm.	To prevent failure that may lead to flooding	HyD's Contractor	Whole construction site	Throughout construction phase	ProPECC PN 1/94, ELAO-TM	✓
5.8	W8	Remove sediment from silt and grit at regular interval.	To prevent blockage the may lead to flooding	HyD's Contractor	Whole construction site	Throughout construction phase	ProPECC PN 1/94, ELAO-TM	*
5.8	W9	Consider environmental requirements when diverting or realigning drainage.	To ensure adequate hydraulic capacity of all drains	HyD's Contractor	Whole construction site	Throughout construction phase	ProPECC PN 1/94, ELAO-TM	✓

5.8	W10	Maintain a minimum distance of 100m between discharge point of construction site runoff and the existing saltwater intakes. No effluent will be discharged into typhoon shelter. (for loations of seawater intakes, please refer to Figure 5.1 in EIA Report)	To prevent mixing	HyD's Contractor	Whole construction site	Throughout construction phase	ProPECC PN 1/94, ELAO-TM	✓
5.8	W11	Arrange soil excavation works outside rainy seasons (April to September) as far as possible. If this cannot beachieved, the following measures should be implemented: -Cover temporary exposed slope surfaces with impermeable materials, e.g. tarpaulin - Protect temporary access roads by crushed stone or gravel - Proved intercepting channels along crest/edge of excavation - Carry out adequate surface protection measures well before the arrival of a rainstorm	To minimize surface runoff and chance of erosion	HyD's Contractor	Whole construction site	Throughout construction phase	ProPECC PN 1/94, ELAO-TM	✓ N/A ✓ ✓
5.8	W12	Compact soil after earthwork. Provide permanent work or surface protection with appropriate drainage channels immediately after forming the final surfaces.	To prevent soil erosion under rainstorm	HyD's Contractor	Whole construction site	Throughout construction phase	ProPECC PN 1/94, ELAO-TM	✓
5.8	W13	Prevent rainwater from entering trenches. Excavation of trenches should be dug and backfilled in short sections during rainy	To prevent soil erosion under rainstorm	HyD's Contractor	Whole Construction site	Throughout construction phase	ProPECC PN 1/94, ELAO-TM	✓

		seasons. Remove silt in rainwater collected from the trenches or foundation excavations prior to discharge to storm drains.						
5.8	W14	Cover open stockpiles of construction materials (e.g. aggregates, sand and fill materials) with impermeable materials such as tarpaulin during rainstorms.	To prevent soil erosion under rainstorm	HyD's Contractor	Whole construction site	Throughout construction phase	ProPECC PN 1/94, EIAO-TM	#
5.8	W15	Cover and temporary seal manholes (including newly constructed ones) to prevent silt, construction materials or debris and surface runoff from entering foul sewers.	To prevent overloading of foul sewers	HyD's Contractor	Whole construction site	Throughout construction phase	ProPECC PN 1/94, EIAO-TM	*
5.8	W16	Remove waste from the site regularly.	To prevent waste accumulation	HyD's Contractor	Whole construction site	Throughout construction phase	ProPECC PN 1/94, EIAO-TM	✓
5.8	W17	Apply discharge license for effluent discharge. Treat the discharge to comply with the requirement in TM-DSS.	To ensure compliance with effluent discharge requirement	HyD's Contractor	Whole construction site	Throughout construction phase	WPCO, TM-DSS, EIAO-TM	✓
5.8	W18	Reuse treated effluent onsite, e.g. dust suppression, wheel washing and general cleaning.	To minimize wastewater generation	HyD's Contractor	Whole construction site	Throughout construction phase	Waste Disposal Ordinance, EIAO-TM	✓
5.8	W19	Monitor effluent water quality.	To ensure compliance with effluent discharge requirement	HyD's Contractor	Whole construction site	Throughout construction phase	WPCO, EIAO-TM	✓
5.8	W20	Register as chemical waste producer if chemical waste will be generated.	To control chemical waste	HyD's Contractor	Whole construction site	Throughout construction phase	Waste Disposal (Chemical Waste) (General)	✓

							Regulation, EIAO-TM	
5.8	W21	Perform maintenance of vehicles and equipment that have oil leakage and spillage potential on hard standings within a bunded area with sumps and oil interceptors.	To prevent oil leakage or spillage	HyD's Contractor	Whole construction site	Throughout construction phase	Waste Disposal (Chemical Waste) (General) Regulation, EIAO-TM	*
5.8	W22	Dispose chemical waste in accordance to Waste Disposal Ordinance. Follow the <i>Code of Practice on the Packaging, Labelling and Storage of Chemical Wastes</i> , examples as follows: - Store chemical wastes with suitable containers to avoid leakage or spillage during storage, handling and transport - Label chemical waste containers according to the CoP to notify and warn the waste handlers - Store chemical wastes at designated safe location with adequate space	To avoid accident in waste storage and handling	HyD's Contractor	Whole construction site	Throughout construction phase	Waste Disposal Ordinance, EIAO-TM	#

5.8	W23	Provide sufficient chemical toilets with regular maintenance by licensed chemical waste collector	To proper collection of taskforce waste	HyD's Contractor	Whole construction site	Throughout construction phase	Waste Disposal Ordinance, EIAO-TM	✓
Water Impact (Operational Phase)								
5.8	W24	Direct surface runoff for silt removal through silt trap before flowing to public storm water drainage system	To remove silt in surface runoff	HyD	Whole construction site	Throughout construction phase	WPCO, EIAO-TM	✓
5.8	W25	Regularly maintain the silt traps	To prevent blockage	HyD	Whole construction site	Throughout construction phase	WPCO, EIAO-TM	✓
Waste Management (Construction Phase)								
6.5	WM1	Allocate an area for waste sorting and storage of C&D materials into the following categories for reuse, recycle or disposal: - excavated material suitable for reuse - inert C&D material for disposal offsite - non-inert C&D materials for disposal at landfills - chemical waste - general refuse	To minimize waste generation	HyD's Contractor	Whole construction site	Throughout construction phase	Waste Disposal Ordinance, EIAO-TM	*
6.5	WM2	Adopt good site practice as follows: - Provide training to workers on site cleanliness, waste management (waste	To proper handling of waste	HyD's Contractor	Whole construction site	Throughout construction phase	Waste Disposal Ordinance, EIAO-TM	*

		reduction, reuse and recycle) and chemical handling procedures - Provide sufficient waste collection points and regular removal - Cover waste materials with tarpaulin or in enclosure during transportation - Maintain drainage systems, sumps and oil interceptors - Sort out chemical waste for proper handling and treatment						
6.5	WM3	Adopt waste reduction measures as follows: - Allocate area/containers for sorting, recovering and storing waste for reuse, recycle or disposal (e.g. demolition debris and excavated materials, general refuse like aluminium cans) - Allocate area for proper storage of construction materials to prevent contamination - Minimize wastage through careful planning and avoiding over-purchase of construction materials	To minimize waste generation	HyD's Contractor	Whole construction site	Throughout construction phase	Waste Disposal Ordinance, EIAO-TM	*
6.5	WM4	Prepare and implement a site specific Waste Management Plan (WMP) as part of Environmental Management Plan (EMP) in accordance with ETWB TCW No. 19/25. Detail waste management method in the form of avoidance, reuse, recovery,	To provide guidance to waste management	HyD's Contractor	Whole construction site	Throughout construction phase	ETWB TCW No. 19/2005, EIAO-TM	✓

		recycling, storage, collection, treatment and disposal according to the recommendations on the EIA and EM&A Manual. It should be approved by the ER and						
6.5	WM5	Store waste materials properly as follows: - Avoid contamination by proper handling and storing waste - Prevent erosion by covering waste or applying water spray - Maintain and clean storage area regularly - Sort and stockpile different materials at designated location to enhance reuse	To properly store waste	HyD's Contractor	Whole construction site	Throughout construction phase	ProPECC PN 1/94, EIAO-TM	*
6.5	WM6	Apply for relevant waste disposal permits in accordance with the Waste Disposal Ordinance (Cap. 354), Waste Disposal (Charges for Disposal of Construction Waste) Regulation (Cap. 345) and the Land (Miscellaneous Provisions) Ordinance (Cap. 28).	To properly dispose waste	HyD's Contractor	Whole construction site	Throughout construction phase	Waste Disposal Ordinance (Cap. 354), Waste Disposal (Charges for Disposal of Construction Waste) Regulation (Cap. 345) and the Land (Miscellaneous Provisions) Ordinance (Cap. 28), EIAO-TM	✓

6.5	WM7	Hire licensed waste disposal contractors for waste collection and removal. Dispose waste at licensed waste disposal facilities	To properly dispose waste	HyD's Contractor	Whole construction site	Throughout construction phase	Waste Disposal Ordinance, EIAO-TM	✓
6.5	WM8	Implement trip-ticket system for recording the amount of waste generated, recycled and disposed, including chemical wastes	To monitor movement of waste	HyD's Contractor	Whole construction site	Throughout construction phase	Waste Disposal (Chemical Waste) (General) Regulation, Waste Disposal Ordinance, EIAO-TM	✓
6.5	WM9	Provide wheel washing bay at site exit to clean the vehicle body and wheel	To prevent dust from being brought offsite	HyD's Contractor	Whole construction site	Throughout construction phase	ProPECC PN 1/94, EIAO-TM	✓
6.5	WM10	Reduce water content in wet spoil generated from piling work by mixing with dry materials. Only dispose treated spoil with less than 25% dry density to Public Fill Reception Facilities	To minimize load to reception facilities	HyD's Contractor	Whole construction site	Throughout construction phase	Waste Disposal Ordinance, EIAO-TM	✓
6.5	WM11	Dispose dry waste or waste with less than 70% water content by weight to landfill	To minimize load to reception facilities	HyD's Contractor	Whole construction site	Throughout construction phase	Waste Disposal Ordinance, EIAO-TM	✓
6.5	WM12	Follow the <i>Code of Practice on the Packaging, Labelling and Storage of Chemical Waste</i> as follows: - Store chemical wastes with suitable	To avoid accident in waste storage and handling	HyD's Contractor	Whole construction site	Throughout construction phase	Waste Disposal Ordinance, EIAO-TM	*

		containers. Seal and maintain the container to avoid leakage or spillage during storage, handling and transport - Label chemical waste containers in both English and Chinese with instructions in accordance to Schedule 2 of the Waste Disposal (Chemical Waste) (General) Regulation - The container capacity should be smaller than 450 litres unless agreed by the EPD						
6.5	WM13	Comply with the requirement of the chemical storage area: - Store only chemical waste and label clearly the chemical characters of the waste - Have at least 3 sides enclosed and protected from rainfall with cover - Provide sufficient ventilation - Have impermeable floor and has bunds to contain 110% of the capacity of the largest container or 20% of the total volume of the stored waste in the area, whichever is larger - Adequately spaced incompatible materials	To ensure proper storage of chemical waste	HyD's Contractor	Whole construction site	Throughout construction phase	Waste Disposal Ordinance, EIAO-TM	✓
6.5	WM14	Transfer used lubricants, waste oils and other chemicals to oil recycling companies, if possible, and empty oil drums for reuse or refill. No direct or indirect discharge is permitted	To ensure proper disposal of chemical waste	HyD's Contractor	Whole construction site	Throughout construction phase	Waste Disposal (Chemical Waste) (General) Regulation, EIAO-TM	N/A

6.5	WM15	Hire licensed chemical waste disposal contractors for waste collection and removal. Dispose chemical waste at the approved CWTC at Tsing Yi or other licensed facility	To ensure proper disposal of chemical waste	HyD's Contractor	Whole construction site	Throughout construction phase	Waste Disposal (Chemical Waste) (General) Regulation, EIAO-TM	N/A
6.5	WM16	Hire reputable waste collector to separately collect and dispose general refuse from other wastes. Cover the waste to prevent being blown away	To ensure proper disposal of general refuse	HyD's Contractor	Whole construction site	Throughout construction phase	Waste Disposal (Chemical Waste) (General) Regulation, EIAO-TM	✓
6.5	WM17	Provide recycling bins for sorting out recyclables for collection by recycling companies. Non-recyclables should be removed to designated landfills every day by licensed collectors to prevent environmental and health nuisance.	To ensure proper recycling and disposal of general refuse	HyD's Contractor	Whole construction site	Throughout construction phase	Waste Disposal Ordinance, EIAO-TM	✓
6.5	WM18	Organize training and reminders to site staff on waste minimization through avoidance and reduction, reusing and recycling	To ensure proper management of general refuse	HyD's Contractor	Whole construction site	Throughout construction phase	EIAO-TM	✓
6.5	WM19	Carry out testing to verify sediment quantity and quality	To verify the categories of sediment to be disposed in accordance with ETWB TC(W) No. 34/2002	HyD's GI Contractor	Drillholes CB1 to 5 as shown in Sediment Sampling and Testing Plan	Throughout construction phase	ETWB TC(W) No. 34/2002	✓

Landscape and Visual								
7.9.3	CM1	Shorten the construction period	To minimize duration of landscape and visual impact	HyD's Contractor	Whole construction site	Throughout construction phase	EIAO-TM	N/A
7.9.3	CM2	Limit work within site area without encroaching into the landscape resources offsite.	To minimize landscape and visual impact	HyD's Contractor	Whole construction site	Throughout construction phase	EIAO-TM	✓
7.9.3	CM3	Protect retained trees from damage during construction work according to the recommended in the detailed tree assessment report and the approval of Tree Removal Application under ETWB TCW No. 3/2006 Tree Preservation	To maintain and minimize damage to existing greenery	HyD's Contractor	Whole construction site	Throughout construction phase	ETWB TCW 3/2006, EIAOTM	✓
7.9.3	CM4	Transplant unavoidably affected trees wherever possible in accordance with ETWB TCW No. 3/2006 Tree Preservation. Maintain transplanted trees to ensure healthy development during the establishment period	To minimize tree loss and ensure survival of transplanted trees	HyD's Contractor	Whole construction site	Throughout construction phase	ETWB TCW 3/2006, EIAOTM	N/A
7.9.2.6	OM1	Carry out compensatory planting in areas proposed in the Tree Survey and Landscape and Greening Study Report in accordance to ETWB TCW 3/2006, which will be subjected to refinement in detailed design stage. Compensatory planting of a ratio no less than 1:1 in terms of quality and quantity will be provided for any potential tree	To compensate for loss greenery	HyD's Contractor	Whole construction site/Offsite	Construction phase	ETWB TCW 3/2006, EIAOTM	N/A

		felling within the site. Offsite planting may be required due to land constraint. 410 nos. of compensatory trees have been proposed						
7.9.2.6	OM2	Provide vertical greening at piers of elevated roads and shrub planting near amenity planting strips to soften the hard landscape (e.g. climber and shrub for hiding central divider and enclosures). Early comments from the ACABAS and relevant departments, implementation and maintenance agents shall be sought at the earlier stage.	To soften hard landscape	HyD's Contractor	Whole construction site	Construction phase	ETWB TCW 36/2004	N/A
7.9.2.6	OM3	Match the design and materials of road structure with the surrounding environment and with the schematic theme paving of the future West Kowloon Reclamation Development and the Advisory Committee on the Appearance of Bridges and Associated Structures (ACABAS)	To match with existing landscape character	HyD's Contractor	Whole construction site	Construction phase	ETWB TCW 36/2004	N/A

Remarks:

- ✓ Compliance of mitigation measure
- X Non-compliance of mitigation measure
- Non-compliance but rectified by the contractor
- * Recommendation was made during site audit but improved/rectified by the contractor
- # Waiting for improving/rectifying by the contractor
- N/A Not Applicable

Appendix G: Cumulative Log for Environmental Exceedance, Complaints, Notification of Summons and Successful Prosecutions

Cumulative Log for Environmental Exceedance, Non-Compliance, Complaints, Notification of Summons and Successful Prosecution

Reporting Month	Number of Exceedance	Number of Non-Compliance	Number of Environmental Complaints	Number of Notification of Summons	Number of Successful Prosecutions
February 2016	0	0	0	0	0
March 2016	0	0	0	0	0
April 2016	0	0	2	0	0
May 2016	7	0	0	0	0
June 2016	11	0	0	0	0
July 2016	6	0	0	0	0
August 2016	6	0	0	0	0
September 2016	5	0	0	0	0
October 2016	6	1	0	0	0
November 2016	5	0	0	0	0
December 2016	5	0	0	0	0
January 2017	5	0	0	0	0
February 2017	5	0	0	0	0
March 2017	6	0	0	0	0
April 2017	6	0	1	0	0
May 2017	5	0	0	0	0
June 2017	6	0	0	0	0
July 2017	5	0	0	0	0
August 2017	5	0	0	0	0
September 2017	6	0	0	0	0

October 2017	5	0	0	0	0
November 2017	6	0	0	0	0
December 2017	5	0	0	0	0
January 2018	5	0	0	0	0
Grand Total	121	1	3	0	0