



Highways Department  
Works Division  
7/F, Trade and Industry Tower  
3 Concorde Road  
Kowloon  
Hong Kong

Your reference:

Our reference: HKHYD201/50/107721

Date: 17 December 2021

Attention: Mr Terry M K Chung

**BY POST**

Dear Sirs

Agreement No. HMW 1/2015 (EP)  
Road Improvement Works for West Kowloon Reclamation Development  
– Independent Environmental Checker  
Verification of Final Environmental Monitoring & Audit Report

We refer to the emails on 7, 15 and 17 December 2021 attaching the Final Environmental Monitoring & Audit Report for the captioned project prepared by the ET team, Environmental Pioneers & Solutions Limited.

We have no comment and hereby verify the Final Environmental Monitoring & Audit Report in accordance with Section 9.3 of the Environmental Monitoring and Audit Manual (September 2013).

Please do not hesitate to contact the undersigned at 2618 2831 or our Ms Karen Po should you have any queries.

Yours faithfully  
ANewR CONSULTING LIMITED

James Choi  
Independent Environmental Checker

CPSJ/LCCR/PKWK/lsm

cc WSP (Asia) Limited – Mr Angus Law (email: SRE@hy201317.com)  
EPSL – Mr Goldie Fung (email: GoldieFung@fsenv.com.hk)



大成環境科技拓展有限公司

**ENVIRONMENTAL PIONEERS & SOLUTIONS LIMITED**

*A Member of FSE Lifestyle*

# **Proposed Road Improvement Works in West Kowloon Reclamation Development – Phase 1 Final Environmental Monitoring & Audit Report**

Prepared by:

Andy Tsang

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Certificated by:

Goldie Fung

A handwritten signature in black ink, appearing to read 'Goldie Fung', written over a horizontal line.

(Environmental Team Leader)

**Environmental Pioneers & Solutions Limited**

Flat A, 8/F, Chaiwan Industrial Centre,

20 Lee Chung Street, Chai Wan, Hong Kong

Tel: 2556 9172

Fax: 2856 2010

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Appendix C: Environmental Mitigation Implementation Schedule

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## **Executive Summary**

This is the final 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 and completed on 21 July 2021. This report summarizes the findings of EM&A Works conducted for the whole construction period.

### **EM&A Requirements**

Environmental mitigation measures, air quality and noise monitoring, waste management, environmental site inspection and landscape & visual impact inspection were properly implemented during the project construction period.

### **Monitoring Result and Trends**

The dust impact monitoring results of AM1, AM2, AM3 and AM4 were much lower than the action levels. The noise monitoring results of NM1, NM2, NM3, NM4 and NM5 were closed to the baseline level.

### **Environmental Non-Conformance**

281 noise exceedances were recorded during the construction period. No notification of summons and successful prosecution against the project were received in construction period.

### **Review of EIA and EM&A Programme**

The validity of EIA predications, effectiveness and cost-effectiveness of monitoring methodology, effectiveness and efficiency of mitigation measures are reviewed in Section 5.

### **Return of Ambient Environmental Conditions**

The ambient environmental conditions are returned to the baseline level after the construction works completed.

## **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 drawings showing the project area, environmental sensitive receivers and monitoring locations are shown in **Appendix A**.

## 1.2 Construction Programme and Activities

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

### Portion J

- Excavation Works and ELS Works
- Construction of Retaining Wall
- Site Formation and Road Works
- Piling Works
- Pile Cap, Pier and Bridge Deck Construction Works
- Road Pavement, Street Furniture Installation

### Portion Q

- Demolition of Central Divider
- Excavation Works & Common Trench Excavation
- Drainage Construction Works
- Road Works
- Construction of Sign Gantry and Street Furniture Installation

### Portion HA

- Trial Trench Works
- Piling Works
- Pile Cap, Pier and Bridge Deck Construction Works
- E&M Installation, Road Works and Street Furniture Installation

### Portion I

- Trial Trench Works & UU Diversion Works
- Piling Works
- Pile Cap, Pier and Bridge Deck Construction Works
- E&M Installation, Road Works and Street Furniture Installation

## 1.3 Project Organization

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

## **2 EM&A Requirements for Monitoring Parameters**

### **2.1 Environmental Mitigation Measures**

According to the EM&A Manual of the Project, the mitigation measures detailed in the documents shall be implemented during the construction phase. Updated status summary of the Environmental Mitigation Implementation Schedule is provided in **Appendix C**.

### **2.2 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 (TSP). 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.

#### **Monitoring Location**

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 2.1.1.

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.

Table 2.1.1 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 24-hr TSP
AM2	Garden Building	Ground Floor Face to Canton Road	1-hr TSP 24-hr TSP
AM3	The Cullinan I	Ground Floor Face to Nga Cheung Road	1-hr TSP 24-hr TSP
AM4	Lai Chack Middle School	Ground Floor Face to Canton Road	1-hr TSP 24-hr TSP

Table 2.1.2 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 Face to The Cullinan II	24-hr TSP
AM4-A	Tsim Sha Tsui Fire Station	Ground Floor Face to Canton Road	24-hr TSP



## Action and Limit Level for 1-hr TSP and 24-hr TSP

The Action and Limit levels for air quality impact monitoring results at all monitoring locations are summarized in Table 2.1.2, which would be applied for compliance assessment of air quality for this project. If the air quality monitoring results at any monitoring stations exceeded the criteria, the actions in accordance with the Event and Action Plan in Table 2.1.3 shall be taken.

Table 2.1.2 Established TSP Actions and Limit Level

Monitoring Locations	Monitoring Parameter	Action Level ( $\mu\text{g}/\text{m}^3$ )	Limit Level ( $\mu\text{g}/\text{m}^3$ )
AM1	1-hr TSP	288	500
AM2		299	500
AM3		299	500
AM4		303	500
AM1	24-hr TSP	157	260
AM2		183	260
AM3-B		177	260
AM4-A		176	260

Table 2.1.3 Event and action Plan for Air Quality

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
<b>ACTION LEVEL</b>				
1. Exceedance for one sample	1. Inform IEC, ER and Contractor; 2. Identify source, investigate the causes of exceedance and propose remedial measures; 3. Repeat measurement to confirm finding.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method.	1. Notify Contractor.	1. Rectify any unacceptable practice; 2. Amend working methods if appropriate.
2. Exceedance for two or more consecutive samples	1. Inform IEC, ER and Contractor; 2. Identify source; 3. Advise the ER on the effectiveness of the proposed remedial measures; 4. Repeat measurements to confirm findings; 5. Increase monitoring frequency to daily; 6. Discuss with IEC, ER and Contractor on remedial actions required; 7. If exceedance continues, arrange meeting with IEC and ER; 8. If exceedance stops, cease additional monitoring.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ET/ER on the effectiveness of the proposed remedial measures; 5. Supervise Implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented.	1. Submit proposals for remedial to ER and IEC within 3 working days of notification; 2. Implement the agreed proposals; 3. Amend proposal if appropriate.
<b>LIMIT LEVEL</b>				
1. Exceedance for one sample	1. Inform IEC, ER, Contractor and EPD; 2. Identify source, investigate the causes of exceedance and propose remedial measures; 3. Repeat measurement to confirm finding; 4. Increase monitoring frequency to daily; 5. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss with ET and Contractor on possible remedial measures; 4. Advise the ER on the effectiveness of the proposed remedial measures; 5. Supervise implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Ensure remedial measures properly implemented.	1. Take immediate action to avoid further exceedance; 2. Discuss with ET and IEC on remedial actions; 3. Submit proposals for remedial actions to IEC within 3 working days of notification; 4. Implement the agreed proposals; 5. Amend proposal if appropriate.
2. Exceedance for two or more consecutive samples	1. Notify IEC, ER, Contractor and EPD; 2. Identify source; 3. Repeat measurement to confirm findings; 4. Increase monitoring frequency to daily; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Arrange meeting with IEC and ER and Contractor to discuss the remedial actions to be taken; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; 8. If exceedance stops, cease additional monitoring.	1. Check monitoring data submitted by ET; 2. Check Contractor's working method; 3. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 4. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; 5. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. In consultation with the IEC, agree with the Contractor on the remedial measures to be implemented; 4. Ensure remedial measures properly implemented; 5. If exceedance continues, consider what portion of the work is responsible and instruct the Contractor to terminate that portion of work until the exceedance ceases.	1. Take immediate action to avoid further exceedance; 2. Discuss with ET and IEC on remedial actions; 3. Submit proposals for remedial actions to ER and IEC within 3 working days of notification; 4. Implement the agreed proposals; 5. Resubmit proposals if problems still not under control; 6. Stop the relevant portion of works as determined by the ER until the exceedance ceases.

## 2.3 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.

### Monitoring Location

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 2.2.1.

Table 2.2.1 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

### Action and Limit Level for Construction Noise

The Action and Limit levels for construction noise are defined in Table 2.2.2. Should exceedance of the criteria occur, action in accordance with the Action Plan in Table 2.2.3 shall be carried out.

Table 2.2.2 Action and Limit Levels for Construction Noise at all Sensitive Receivers

Monitoring Locations	Building Type	Time Period	Action Level	Limit Level
NM1	Residential	Daytime 0700 – 1900 hrs on normal weekdays	When one documented complaint is received	75 dB(A)
NM2	Education			70 dB(A) / 65dB(A)*
NM3	Residential			75 dB(A)
NM4	Education			70 dB(A) / 65dB(A)*
NM5	Residential			75 dB(A)

\*Remark: 70dB(A) and 65dB(A) for schools during normal teaching periods and school examination periods, respectively.

Table 2.2.3 Event / Action Plan for Construction Noise

EVENT	ACTION			
	ET	IEC	ER	CONTRACTOR
Action Level	1. Notify IEC, ER and Contractor of exceedance; 2. Identify source 3. Investigate the causes of exceedance and propose remedial measures; 4. Report the results of investigation to the IEC, ER and Contractor; 5. Discuss with the IEC, ER and Contractor and formulate remedial measures; 6. Increase monitoring frequency to check mitigation effectiveness.	1. Review the analysed results submitted by the ET; 2. Review the proposed remedial measures by the Contractor and advise the ER accordingly; 3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analysed noise problem; 4. Ensure remedial measures are properly implemented	1. Submit noise mitigation proposals to ER with copy to ET and IEC; 2. Implement noise mitigation proposals.
Limit Level	1. Inform IEC, ER, EPD and Contractor; 2. Identify source; 3. Repeat measurements to confirm findings; 4. Increase monitoring frequency; 5. Carry out analysis of Contractor's working procedures to determine possible mitigation to be implemented; 6. Inform IEC, ER and EPD the causes and actions taken for the exceedances; 7. Assess effectiveness of Contractor's remedial actions and keep IEC, EPD and ER informed of the results; 8. If exceedance stops, cease additional monitoring.	1. Discuss amongst ER, ET, and Contractor on the potential remedial actions; 2. Review Contractor's remedial actions whenever necessary to assure their effectiveness and advise the ER accordingly; 3. Supervise the implementation of remedial measures.	1. Confirm receipt of notification of failure in writing; 2. Notify Contractor; 3. Require Contractor to propose remedial measures for the analysed noise problem; 4. Ensure remedial measures are properly implemented; 5. If exceedance continues, investigate what portion of the work is responsible and instruct the Contractor to terminate that portion of work until the exceedance ceases.	1. Take immediate action to avoid further exceedance; 2. Submit proposals for remedial actions to ER with copy to ET and IEC within 3 working days of notification; 3. Implement the agreed proposals; 4. Resubmit proposals if problem still not under control; 5. Terminate the relevant portion of works as determined by the ER until the exceedance ceases.

## **2.4 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.

## **2.5 Landscape and Visual**

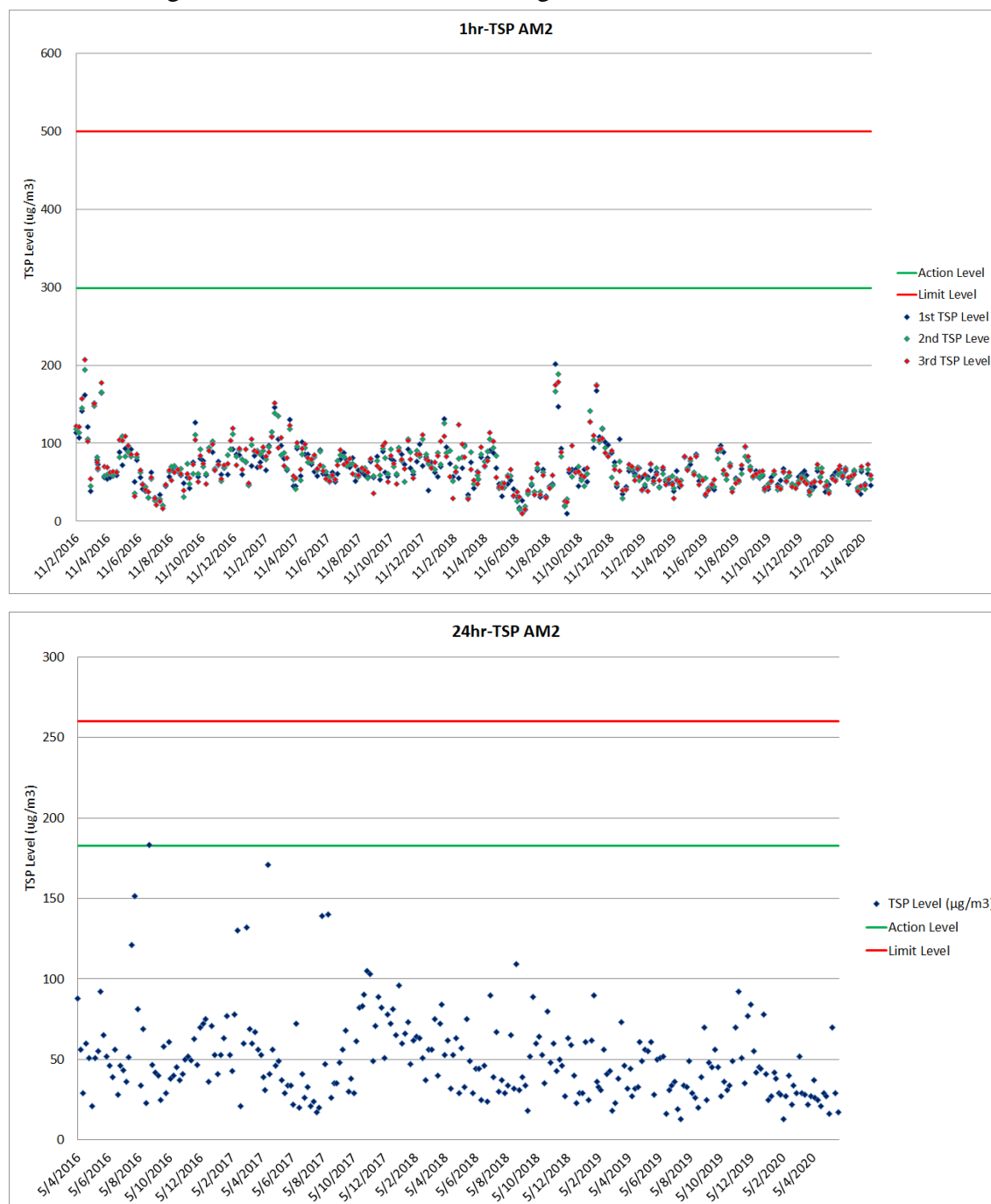
According to the EM&A Manual Section 7.2, inspection and audit for the implementation of mitigation measures shall be conducted once every two weeks by the Registered Landscape Architect. The adequacy of tree preservation, status of tree planting and removal shall also be monitored.

### 3 Monitoring Result and Trends Analysis

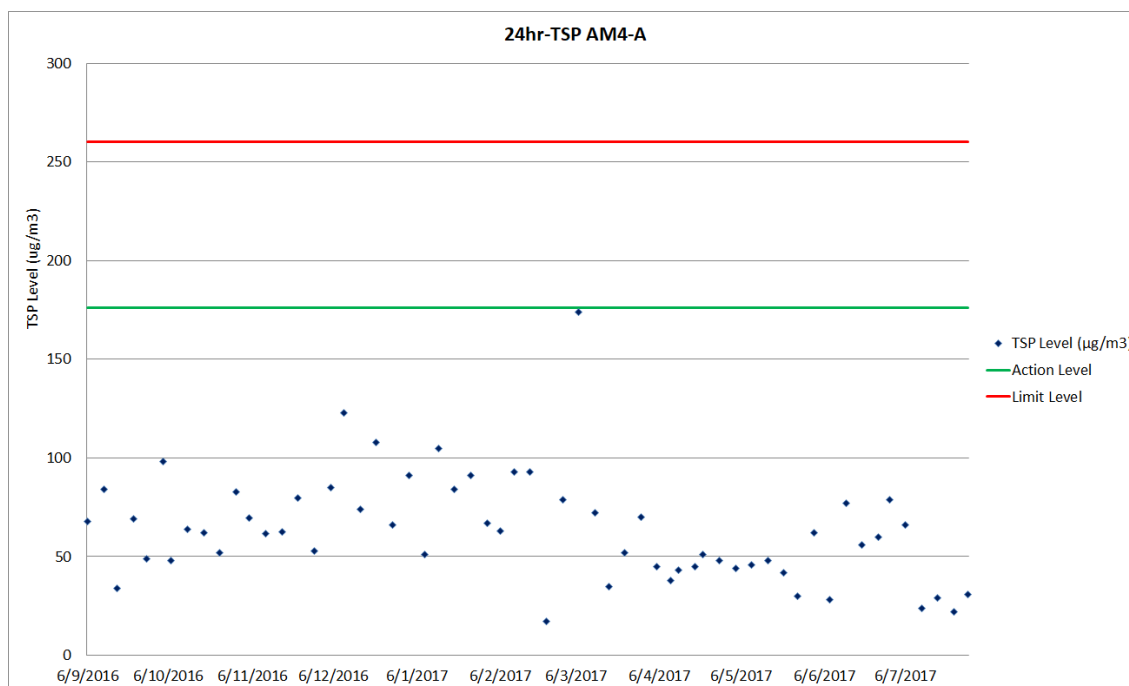
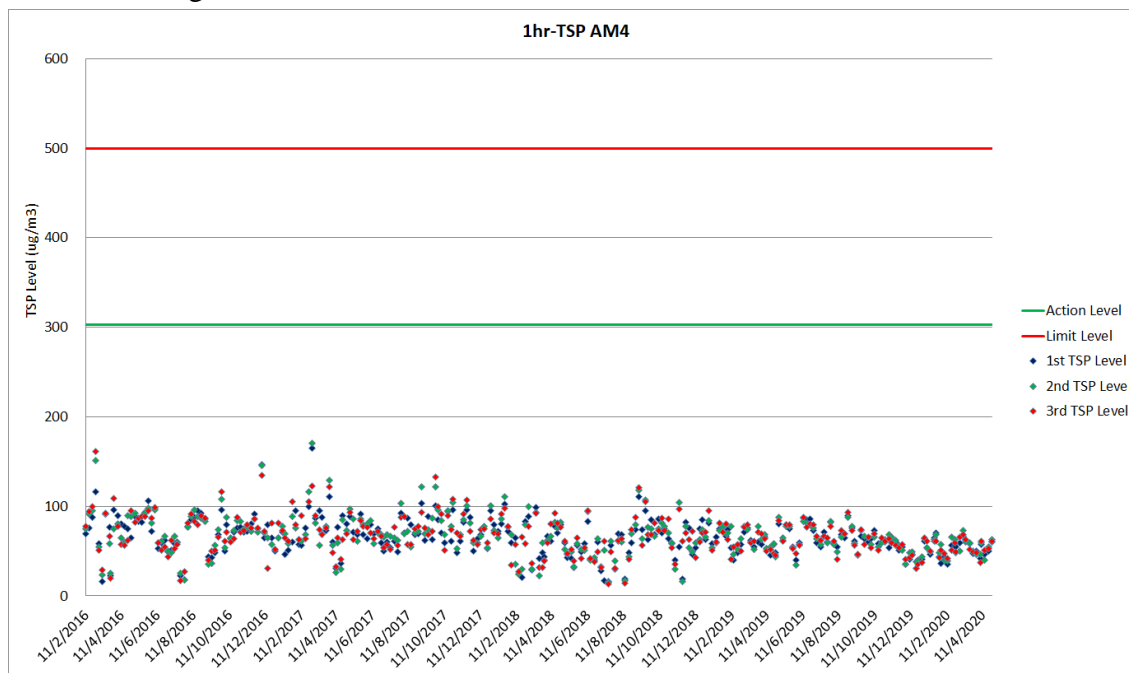
#### 3.1 Portion Q

The trends of the 1-hr TSP, 24-hr TSP and noise monitoring results over the construction period (from February 2016 to June 2020) and the comparison with action and limit level are shown below:

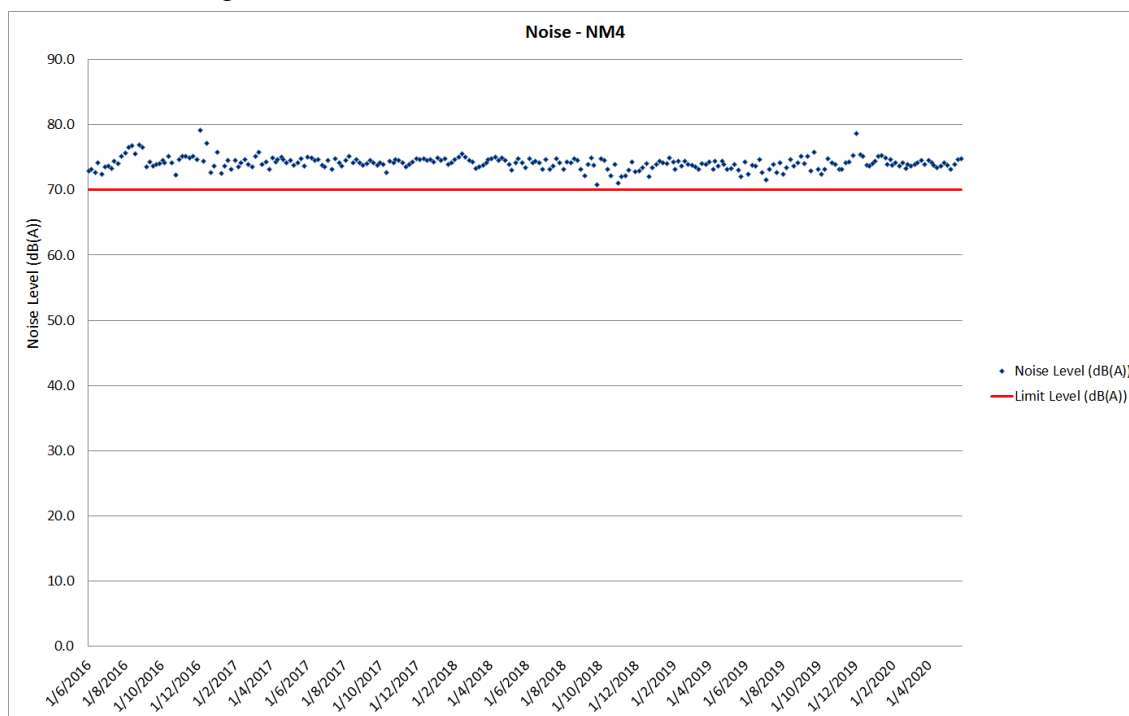
Air Monitoring Station: AM2 - Garden Building



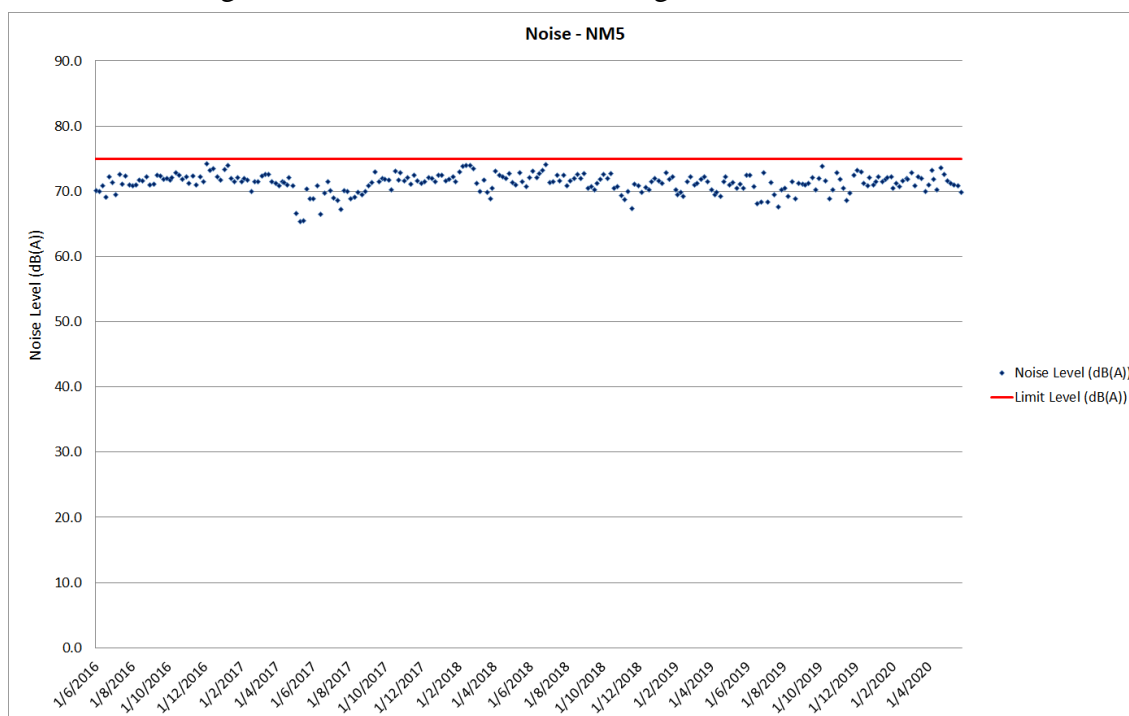
### Air Monitoring Station: AM4/AM4-A - Tsim Sha Tsui Fire Station



### Noise Monitoring Station: NM4 - Lai Chack Middle School



### Noise Monitoring Station: NM5 - Yue Tak Building

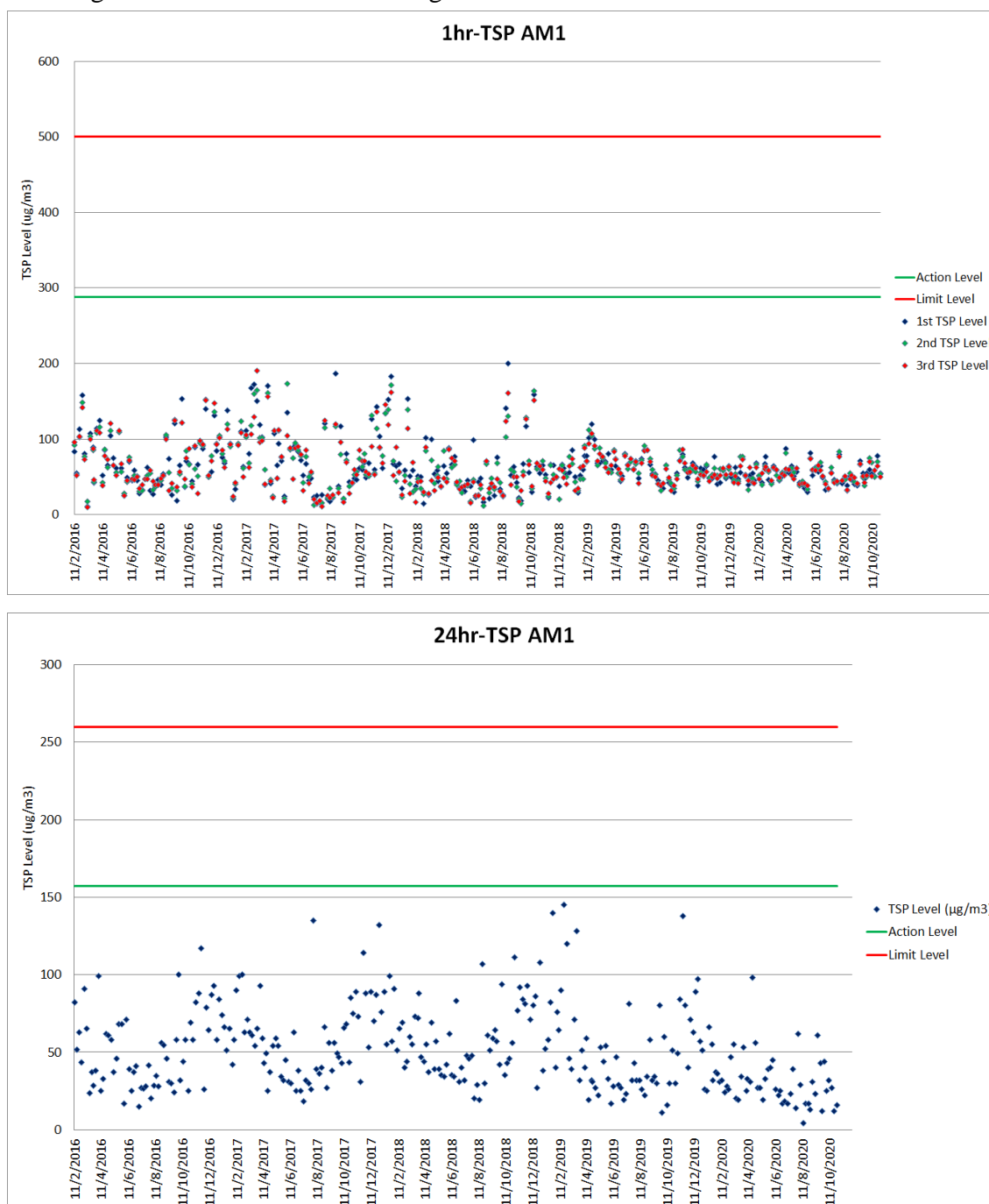




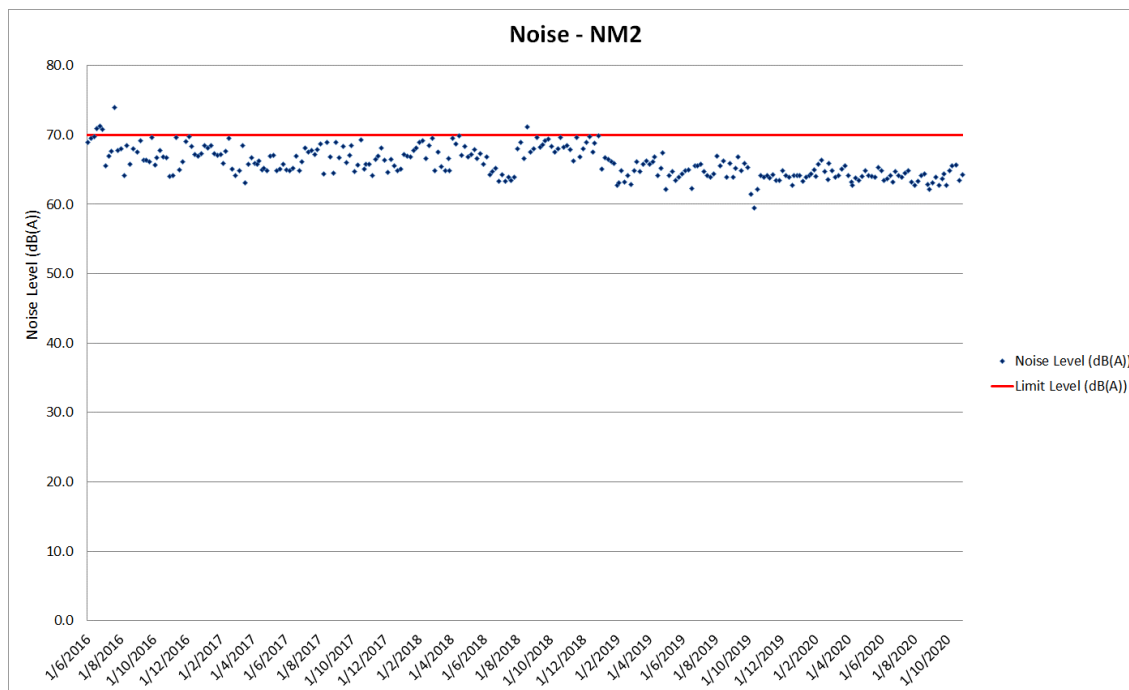
### 3.2 Portion HA

The trends of the 1-hr TSP, 24-hr TSP and noise monitoring results over the construction period (from February 2016 to November 2020) and the comparison with action and limit level are shown below:

Air Monitoring Station: AM1 - Marine Department New Yau Ma Tei Public Cargo Working Area Administrative Building



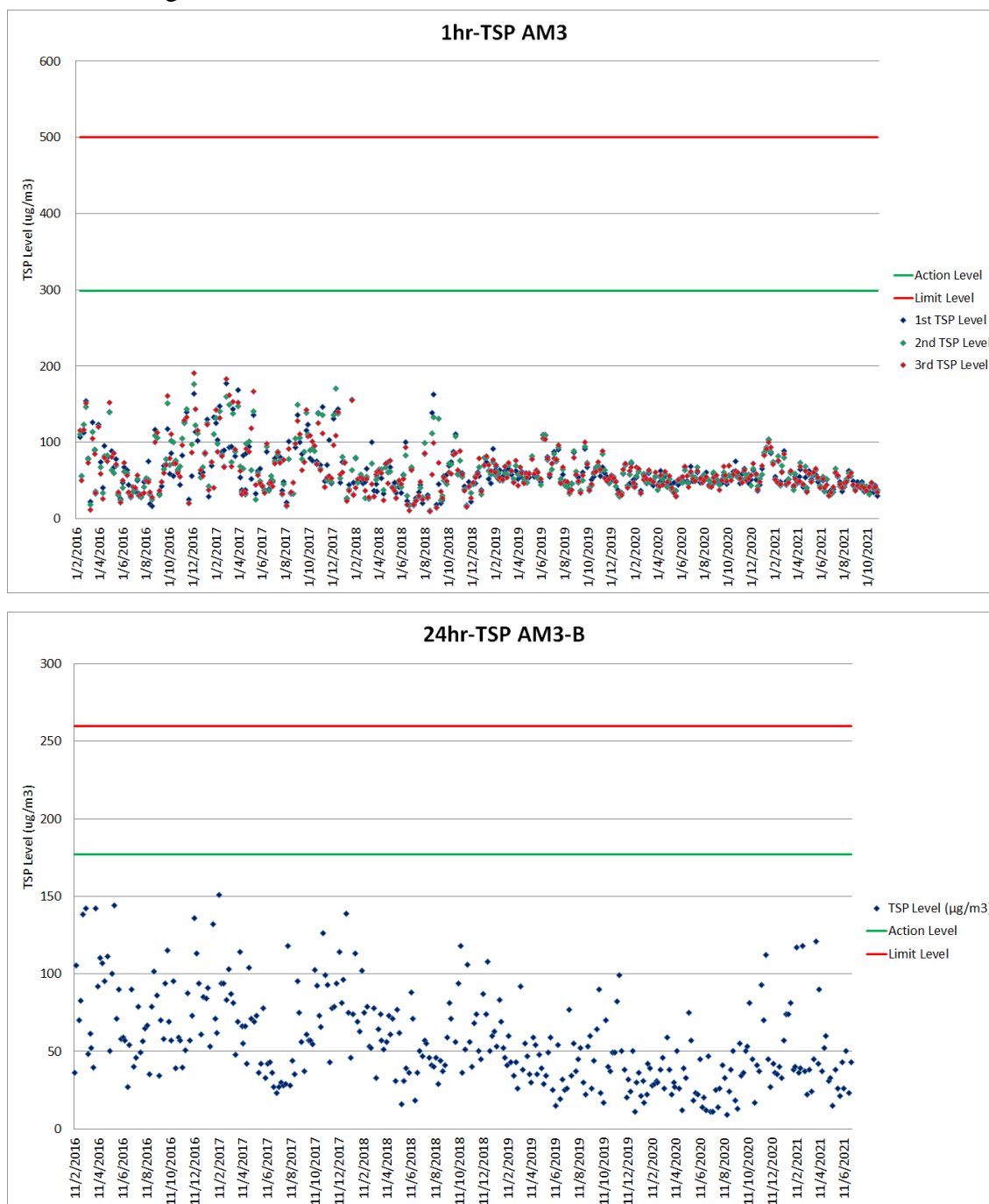
## Noise Monitoring Station: NM2 - Yau Ma Ti Catholic Primary School (Hoi Wang Road)



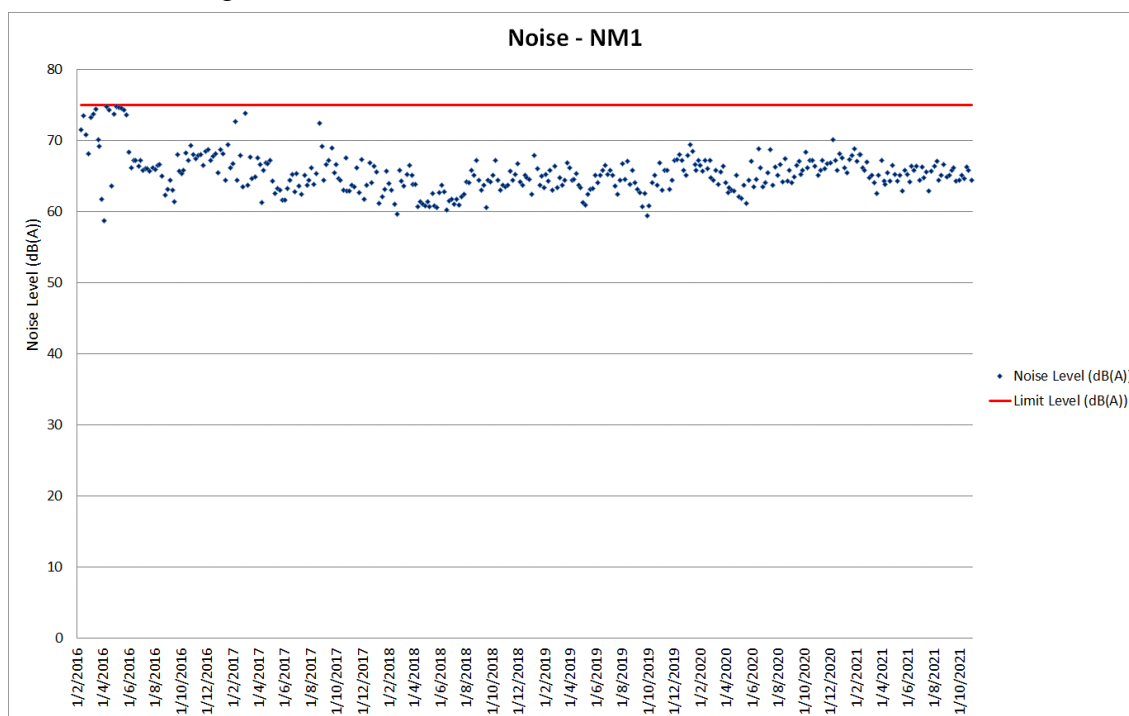
### 3.3 Portion I

The trends of the 1-hr TSP, 24-hr TSP and noise monitoring results over the construction period (from February 2016 to October 2021) and the comparison with action and limit level are shown below:

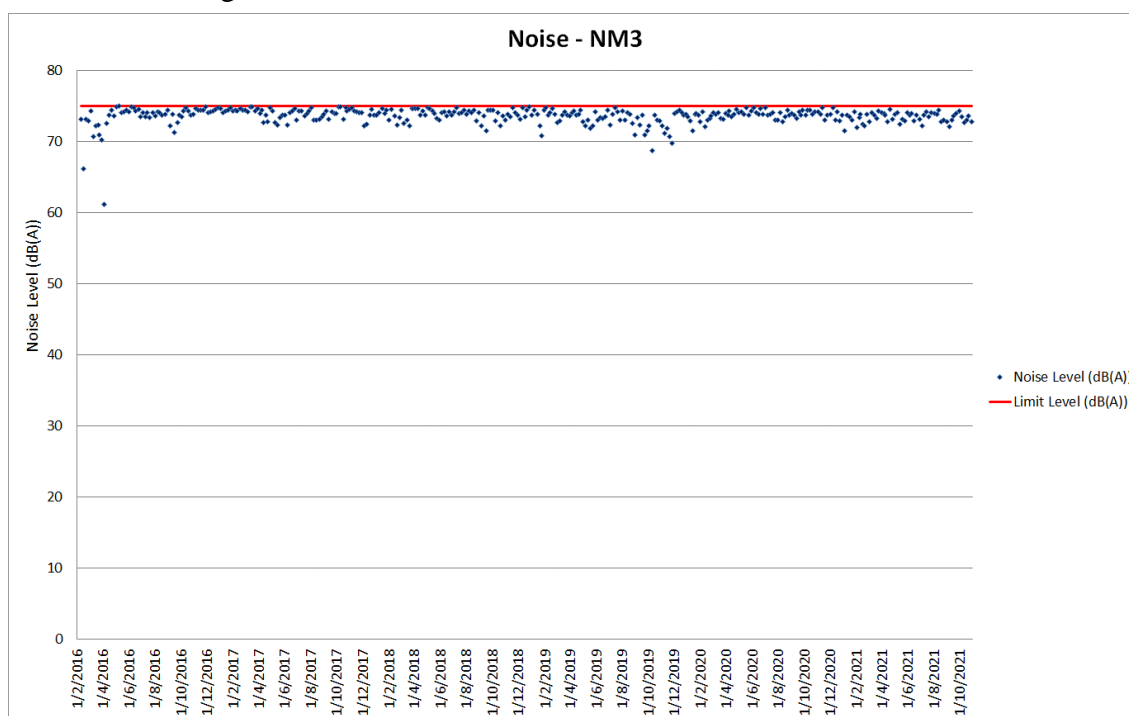
Air Monitoring Station: AM3/AM3-B - The Cullinan I / The Cullinan II



### Noise Monitoring Station: NM1 - Sorrento - Tower 1



### Noise Monitoring Station: NM3 - Sorrento - The Cullinan I



According to the graphical plots of the trends of monitored parameters over the construction period in different Portions, the dust impact monitoring results of AM1, AM2, AM3 and AM4 were much lower than the action levels established by baseline monitoring data and closed to the baseline level. The noise impact monitoring results obtained at NM1, NM2, NM3, NM4 and NM5 were closed to the baseline level.

The impact monitoring results presented that no dust and noise impacts obviously caused by the construction works and affected the sensitive receivers.

During the monitoring period, the TSP and noise measurement was not be made in the presence of heavy fog, rain, wind and harsh weather. The weather conditions during the construction period were an unapparent factor to affect the dust and noise impact and pollutant levels to the sensitive receivers.

Vehicle emissions, traffic noise and construction activities from other construction sites were the factors which might affect the monitoring result. Vehicle emissions were identified as one of the dust sources for AM1, AM2, AM3, AM3-B, AM4 and AM4-A. TSP levels recorded at AM2, AM4 and AM4-A may be affected by the construction activities from other construction sites near Canton Road. Traffic noise was identified as one of the noise source for NM1, NM2, NM3, NM4 and NM5. Noise levels recorded at NM1 and NM3 may be influenced by the construction activities from other construction sites near Nga Cheung Road. Noise levels recorded at NM2 may be influenced by construction activities from other construction sites near Hoi Ting Road. Noise levels recorded at NM4 and NM5 may be influenced by the construction activities from other construction sites near Canton Road.

## **4 Environmental Non-Conformance**

### **4.1 Summary of Environmental Non-Compliance (Exceedances)**

No exceedance of action level and limit level was recorded for TSP during the construction period.

281 noise exceedances were recorded during the construction period. Noise measurement was repeated for confirming the findings and identifying the noise source for each exceedance according to the event and action plan. 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 the construction works of this project.

### **4.2 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 D**.

## **5 Review of EIA and EM&A Programme**

### **5.1 Validity of EIA Predications**

The recorded monitoring data during the construction period presented that noise and dust were the main impact to the sensitive receivers. It was in line with the EIA prediction.

### **5.2 Effectiveness and Cost-effectiveness of the Monitoring Methodology**

The monitoring frequency for TSP was three times 1-hr and one time 24-hr monitoring in every six days when the highest dust impact occurs. The monitoring frequency for noise was regular monitoring on a weekly basis.

The monitoring frequency of 1-hr TSP and 24-hr TSP monitoring is recommended to keep in line with regular noise monitoring on a weekly basis which will increase the effectiveness and cost-effectiveness.

### **5.3 Effectiveness and Efficiency of Mitigation Measures**

The recommended mitigation measures accordance with the EM&A Manual had been effectively implemented to minimize the environmental impacts. And the efficiency was satisfactory.

### **5.4 Recommendations for Improvement**

It is recommended to set a waste recycling target for the construction project in the EM&A Manual to reduce the waste disposal.

## 6 Return of Ambient Environmental Conditions

The ambient environmental conditions are returned to the baseline level. The comparison of measurement result recorded and baseline data is shown in below Table 6.1.

Table 6.1 Comparison of Measurement Result and Baseline

Monitoring Location	Parameter	Construction Works Completed	Baseline Level
AM1	1-hr TSP	50 – 78 (µg/m <sup>3</sup> )	58 (µg/m <sup>3</sup> )
	24-hr TSP	12 – 32 (µg/m <sup>3</sup> )	42 (µg/m <sup>3</sup> )
AM2	1-hr TSP	32 – 58 (µg/m <sup>3</sup> )	76 (µg/m <sup>3</sup> )
	24-hr TSP	16 – 70(µg/m <sup>3</sup> )	81 (µg/m <sup>3</sup> )
AM3 / AM3-B	1-hr TSP	30 – 47 (µg/m <sup>3</sup> )	72 (µg/m <sup>3</sup> )
	24-hr TSP	21 – 50 (µg/m <sup>3</sup> )	76 (µg/m <sup>3</sup> )
AM4/AM4-A	1-hr TSP	40 – 64 (µg/m <sup>3</sup> )	82 (µg/m <sup>3</sup> )
NM1	Noise	64.4 – 66.3 (dB(A))	75.1 (dB(A))
NM2	Noise	63.5 – 65.7 (dB(A))	66.5 (dB(A))
NM3	Noise	72.7 – 73.6 (dB(A))	74.5 (dB(A))
NM4	Noise	73.2 – 74.8 (dB(A))	73.3 (dB(A))
NM5	Noise	69.8 – 71.6 (dB(A))	71.8 (dB(A))

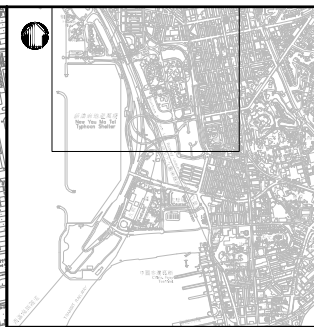
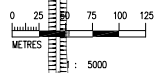


## 7 Conclusion

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 recommended follow up actions were implemented for environmental observations made during the site inspections. The environmental performance during the whole construction period was considered satisfactory.

The Proposal for terminating EM&A programme was submitted to EPD. EPD's reply for the termination proposal is shown in **Appendix E**. EPD agreed with the proposed termination of the EM&A programme for the construction works on 26 November 2021.

## Appendix A: Project Layout Plan



LOCATION PLAN

LEGEND:

- AM1/NM1  
(AIR MONITORING STATION/NOISE MONITORING STATION)
- WORKS BOUNDARY

Rev	Description	By	Date

Consultant

**PARSONS  
BRINCKERHOFF**

漢  
綠 **CINOTECH**

Project title  
AGREEMENT NO. CE 44/2011 (HY)  
PROPOSED ROAD IMPROVEMENT WORKS IN  
WEST KOWLOON RECLAMATION DEVELOPMENT  
- PHASE 1 INVESTIGATION,  
DESIGN AND CONSTRUCTION

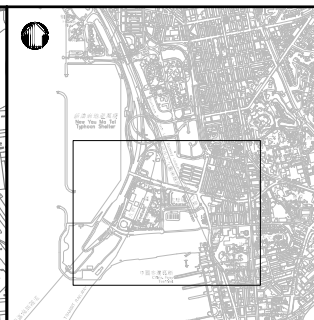
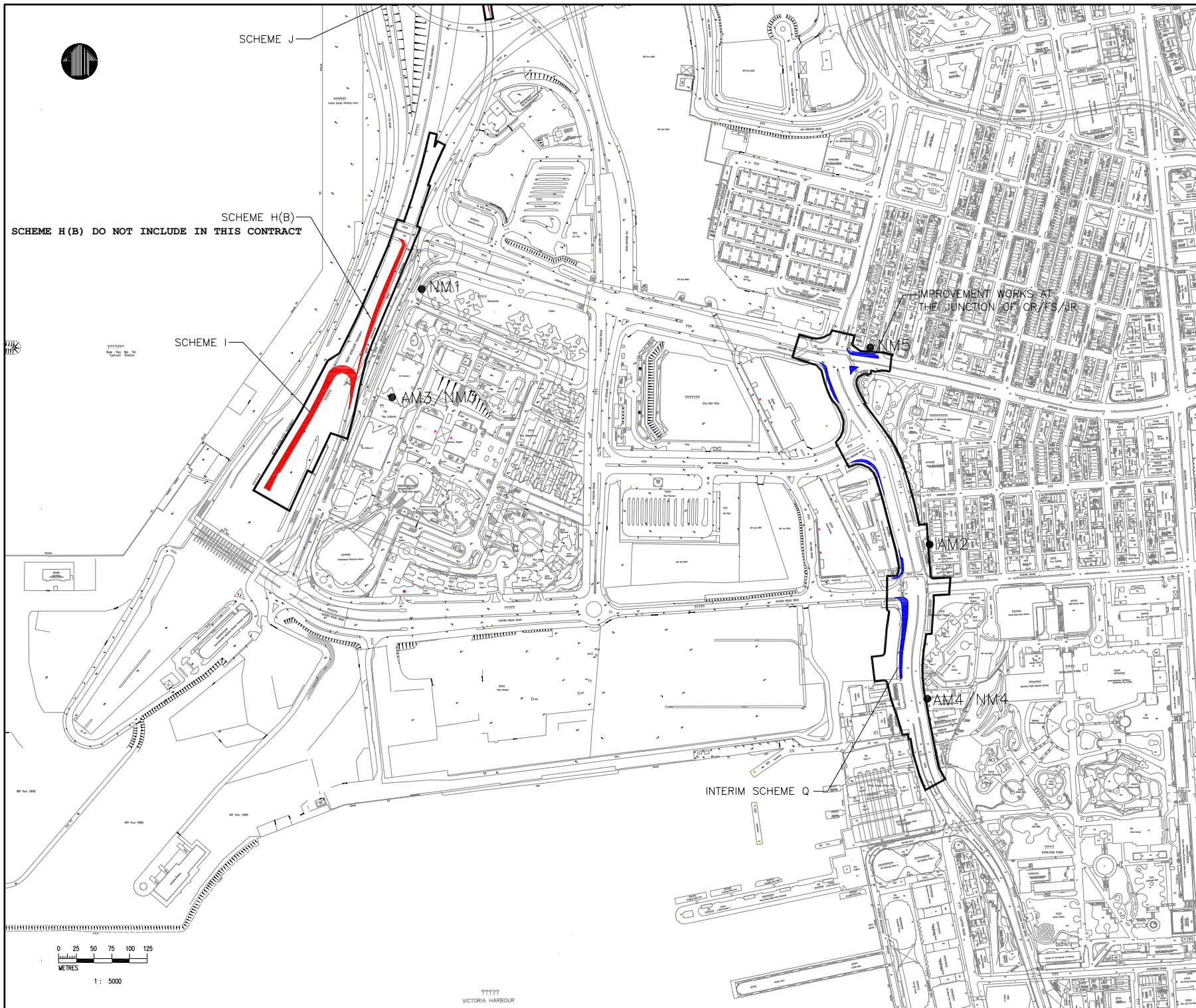
Drawing title  
**LOCATION OF MONITORING  
STATIONS (PAGE 1 OF 2)**

Drawing no.	CE44/T/ST/EM03			Rev.	2
Drawn	MC	Date	AUG13	Checked	KS
Scale	A3 1:5000			Status	PRELIMINARY

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 路政署  
**HIGHWAYS DEPARTMENT**  
主要工程管理部  
MAJOR WORKS PROJECT MANAGEMENT OFFICE





LOCATION PLAN

LEGEND:

- AM1/NM1  
(AIR MONITORING STATION/NOISE MONITORING STATION)
- WORKS BOUNDARY

Rev	Description	By	Date

Consultant

**PARSONS BRINCKERHOFF**

漢綠 CINOTECH

Project title  
 AGREEMENT NO. CE 44/2011 (HY)  
 PROPOSED ROAD IMPROVEMENT WORKS IN  
 WEST KOWLOON RECLAMATION DEVELOPMENT  
 - PHASE 1 INVESTIGATION,  
 DESIGN AND CONSTRUCTION

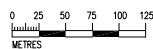
Drawing title  
 LOCATION OF MONITORING  
 STATIONS (PAGE 2 OF 2)

Drawing no.			CE44/T/ST/EM04		Rev.		2								
Drawn		MC		Date		AUG13		Checked		KS		Approved		LC	
Scale				A3 1:5000				Status		PRELIMINARY					

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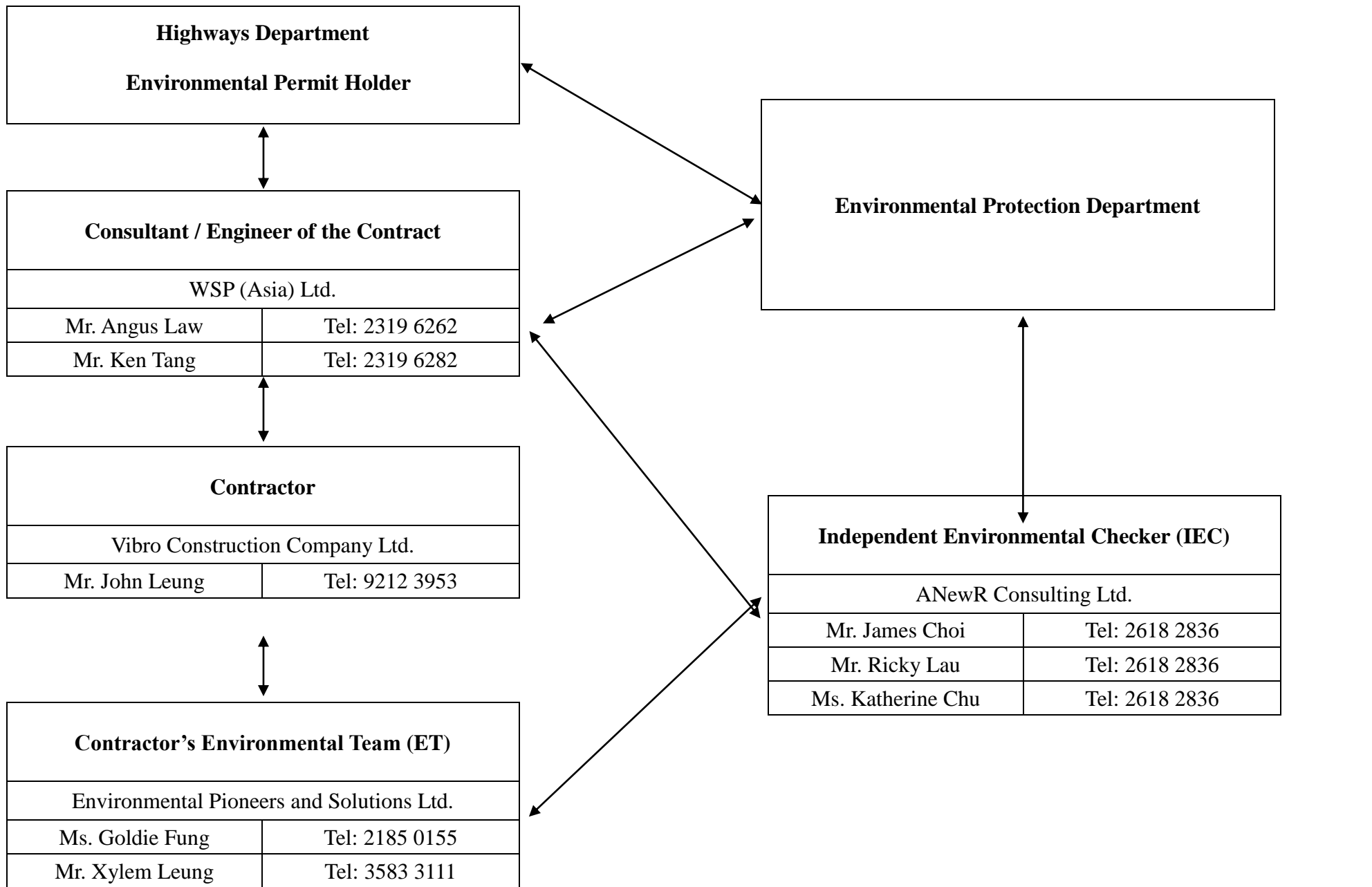
**路政署**  
 HIGHWAYS DEPARTMENT  
 主要工程管理部  
 MAJOR WORKS PROJECT MANAGEMENT OFFICE



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VICTORIA HARBOUR

## Appendix B: Project Organization Chart and Contact Details



## Appendix C: 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	Good 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 hardcores	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	A10	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	A11	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	A12	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	A13	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 PME's	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, EIAO-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, EIAO-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, EIAO-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, EIAO-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, EIAO-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, EIAO-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, EIAO-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, EIAO-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	To minimize surface runoff and chance of erosion	HyD's Contractor	Whole construction site	Throughout construction phase	ProPECC PN 1/94, EIAO-TM	✓
		- Protect temporary access roads by crushed stone or gravel						N/A
		- Proved intercepting channels along crest/edge of excavation						✓
		- Carry out adequate surface protection measures well before the arrival of a rainstorm						✓
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, EIAO-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, EIAO-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	<p>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:</p> <ul style="list-style-type: none"> <li>- Store chemical wastes with suitable containers to avoid leakage or spillage during storage, handling and transport</li> <li>- Label chemical waste containers according to the CoP to notify and warn the waste handlers</li> <li>- Store chemical wastes at designated safe location with adequate space</li> </ul>	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	✓

		<p>containers. Seal and maintain the container to avoid leakage or spillage during storage, handling and transport</p> <ul style="list-style-type: none"> <li>- Label chemical waste containers in both English and Chinese with instructions in accordance to Schedule 2 of the Waste Disposal (Chemical Waste) (General) Regulation</li> <li>- The container capacity should be smaller than 450 litres unless agreed by the EPD</li> </ul>						
6.5	WM13	<p>Comply with the requirement of the chemical storage area:</p> <ul style="list-style-type: none"> <li>- Store only chemical waste and label clearly the chemical characters of the waste</li> <li>- Have at least 3 sides enclosed and protected from rainfall with cover</li> <li>- Provide sufficient ventilation</li> <li>- 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</li> <li>- Adequately spaced incompatible materials</li> </ul>	To ensure proper storage of chemical waste	HyD's Contractor	Whole construction site	Throughout construction phase	Waste Disposal Ordinance, EIAO-TM	✓
6.5	WM14	<p>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</p>	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 D: Cumulative Log for Environmental Exceedance, Complaints,  
Notification of Summons and Successful Prosecutions



**Cumulative Log for Environmental Exceedance, Complaints, Notification of Summons and Successful Prosecution**

Reporting Month	Number of Exceedance	Number of Environmental Complaints	Number of Notification of Summons	Number of Successful Prosecutions
February 2016	0	0	0	0
March 2016	0	0	0	0
April 2016	0	2	0	0
May 2016	7	0	0	0
June 2016	11	0	0	0
July 2016	6	0	0	0
August 2016	6	0	0	0
September 2016	5	0	0	0
October 2016	6	0	0	0
November 2016	5	0	0	0
December 2016	5	0	0	0
January 2017	5	0	0	0
February 2017	5	0	0	0
March 2017	6	0	0	0
April 2017	6	1	0	0
May 2017	5	0	0	0
June 2017	6	0	0	0
July 2017	5	0	0	0
August 2017	5	0	0	0
September 2017	6	0	0	0
October 2017	5	0	0	0
November 2017	6	0	0	0
December 2017	5	0	0	0
January 2018	5	0	0	0
February 2018	5	0	0	0
March 2018	6	0	0	0
April 2018	5	0	0	0
May 2018	7	1	0	0
June 2018	5	0	0	0
July 2018	5	0	0	0
August 2018	7	0	0	0
September 2018	5	0	0	0
October 2018	5	0	0	0

November 2018	7	0	0	0
December 2018	5	0	0	0
January 2019	5	0	0	0
February 2019	0	0	0	0
March 2019	5	0	0	0
April 2019	6	0	0	0
May 2019	6	4	0	0
June 2019	5	0	0	0
July 2019	5	0	0	0
August 2019	5	0	0	0
September 2019	6	0	0	0
October 2019	5	0	0	0
November 2019	5	0	0	0
December 2019	6	0	0	0
January 2020	6	0	0	0
February 2020	6	0	0	0
March 2020	5	0	0	0
April 2020	6	0	0	0
May 2020	5	0	0	0
June 2020	6	0	0	0
July 2020	5	0	0	0
August 2020	0	0	0	0
September 2020	0	0	0	0
October 2020	0	0	0	0
November 2020	0	0	0	0
December 2020	0	0	0	0
January 2021	0	0	0	0
February 2021	0	0	0	0
March 2021	0	0	0	0
April 2021	0	0	0	0
May 2021	0	0	0	0
June 2021	0	0	0	0
July 2021	0	0	0	0
August 2021	0	0	0	0
September 2021	0	0	0	0
October 2021	0	0	0	0
Grand Total	281	8	0	0

## Appendix E: EPD's Reply for the Termination Proposal

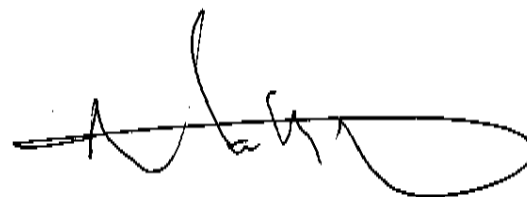
**By Fax and Despatch****MEMO**

<i>From</i>	Director of Environmental Protection	<i>To</i>	Highways Department / Works Division
<i>Ref.</i>	(5) in EP2/K20/A/18 Pt. 9	<i>(Attn.:</i>	Ms. Doris M.S. YAU )
<i>Tel. No.</i>	2835 1155	<i>Your Ref.</i>	( ) in
<i>Fax. No.</i>	2591 0558	<i>dated</i>	<i>Fax. No.</i> 3188 3418
<i>Date</i>	26 November 2021	<i>Total Pages</i>	1

**Environmental Impact Assessment Ordinance, Cap. 499**  
**Proposed Road Improvement Works in West Kowloon Reclamation Development – Phase 1**  
**Environmental Permit (EP) No. EP-455/2013**  
**Termination of Environmental Monitoring & Audit (EM&A) Programme**

I refer to the letter from your consultant (WSP (Asia) Limited) dated 3 November 2021 (Ref.: WKRD/(HY/2013/17)/M45/625/17A13786) submitting the proposal of terminating the EM&A programme for the construction works of the captioned project.

2. Having regard to the information contained in your consultant's proposal of termination of EM&A programme, the requirements set out in the EM&A Manual for the captioned project and the site visit placed recently for the project, I agree with the proposed termination of the EM&A programme for the construction works referred in your consultant's submission of 3 November 2021.



(Matthew CHAN)  
 Senior Environmental Protection Officer  
 for Director of Environmental Protection

cc.  
WSP  
ET  
IEC

(Attn: Mr. Emeric WAN)	(Fax: 2488 5633)
(Attn: Ms. Goldie FUNG)	(Fax: 2856 2010)
(Attn: Mr. James CHOI)	(Fax: 3007 8648)

Internal  
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